# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

# FORM 10-Q

(Mark One)

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 For the quarterly period ended September 30, 2019

OR

□ TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from to Commission file number 001-36714

# JAGUAR HEALTH, INC.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

46-2956775 (I.R.S. Employer Identification No.)

201 Mission Street, Suite 2375 San Francisco, California 94105

(Address of principal executive offices, zip code)

(415) 371-8300

(Registrant's telephone number, including area code)

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes  $\boxtimes$  No  $\square$ 

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes  $\boxtimes$  No  $\square$ 

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer  $\Box$ 

Accelerated filer  $\Box$ 

Non-accelerated filer  $\boxtimes$ 

Smaller reporting company  $\boxtimes$  Emerging growth company  $\boxtimes$ 

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes 🗌 No 🗵

Securities registered pursuant to Section 12(b) of the Act:

Title of each class:	Trading Symbol(s)	Name of each exchange on which registered:				
Common Stock, Par Value \$0.0001 Per Share	JAGX	The NASDAQ Capital Market				

As of November 8, 2019 there were 10,852,125 shares of voting common stock, par value \$0.0001 per share, outstanding, 40,301,237 shares of nonvoting common stock, par value \$0.0001 per share, outstanding (convertible into 38,382 shares of voting common stock), 5,524,926 shares of Series A convertible preferred stock, par value \$0.0001 per share, outstanding (convertible into 473,565 shares of voting common stock, subject to certain voting restrictions as provided in the Certificate of Designation for the convertible preferred stock), 1,971 shares of Series B convertible preferred stock, par value \$0.0001 per share, outstanding (convertible into 985,500 shares of voting common stock, subject to certain voting restrictions as provided in the Certificate of Designation for the convertible preferred stock), and 63 shares of Series B-1 convertible preferred stock, par value \$0.0001 per share, outstanding (convertible into 630,063 shares of voting common stock, subject to certain restrictions as provided in the Certificate of Designation for the convertible preferred stock).

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## PART I. — FINANCIAL INFORMATION

## Item 1. Condensed Consolidated Financial Statements

## JAGUAR HEALTH, INC. CONDENSED CONSOLIDATED BALANCE SHEETS (Unaudited)

		eptember 30, 2019	D	ecember 31, 2018
Assets		(Unaudited)	_	
Current assets:				
Cash	\$	2,069,534	\$	2,568,191
Accounts receivable		1,593,531		995,683
Other receivable		—		6,118
Inventory		2,322,137		3,342,177
Prepaid expenses and other current assets		1,563,458		1,237,772
Total current assets		7,548,660		8,149,941
Property and equipment, net		720,345		760,617
Operating lease - right-of-use asset		730.840		
Intangible assets, net		26,445,555		31,710,556
Other assets		181,144		420,831
Total assets	\$	35,626,544	\$	41,041,945
10(d) 4556(5	ψ	55,020,544	ψ	41,041,040
Liabilities, convertible preferred stock and stockholders' equity				
Current liabilities:				
Accounts payable	\$	4,752,097	\$	5,414,260
Accrued liabilities	-	3,364,021	-	4,939,441
Warrant liability		10,029		220,376
Convertible debt, net of discount		10,010		11,239,170
Operating lease liability		442.017		
Notes payable, net of discount				4,845,575
Total current liabilities		8,568,164		26.658.822
Notes payable long term, net of discount		6,678,461		20,030,022
Total liabilities	\$	15,246,625	\$	26,658,822
Total itabilities	<u>⊅</u>	15,240,025	φ	20,030,022
Commitments and contingencies (See Note 6)				
Series A convertible preferred stock: \$0.0001 par value, 10,000,000 shares authorized at September 30, 2019 and December 31, 2018; 5,524,926 shares issued and outstanding at September 30, 2019 and December 31, 2018; (redemption value and liquidation preference of \$12,738,822 and \$9,199,002 at September 30, 2019 and December 31, 2018, respectively)	\$	9.000.002	\$	9.000.002
	Ψ	5,000,002	Ŷ	5,000,002
Stockholders' equity:				
Series B convertible preferred stock: \$0.0001 par value, 11,000 and zero shares authorized at September 30, 2019 and December 31, 2018, respectively; 1,971 and zero shares issued and outstanding at September 30, 2019 and December 31, 2018, respectively		409,401		_
Common stock - voting: \$0.0001 par value, 150,000,000 shares authorized at September 30, 2019 and		405,401		
December 31, 2018, respectively, 9,395,458 and 351,472 shares issued and outstanding at September 30,				
2019 and December 31, 2018, respectively		940		35
Common stock - non-voting: \$0,0001 par value, 50,000,000 shares authorized at September 30, 2019 and				
December 31, 2018; 40,301,237 shares issued and outstanding at September 30, 2019 and December 31,				
2018		4.030		4.030
Additional paid-in capital		138,096,378		99,929,835
Accumulated deficit		(127,130,832)		(94,550,779)
Total stockholders' equity	\$	11,379,917	\$	5,383,121
1 5	\$	35,626,544	\$	41.041.945
Total liabilities, convertible preferred stock and stockholders' equity	φ	55,020,544	φ	41,041,945

The accompanying notes are an integral part of these condensed consolidated financial statements.

## JAGUAR HEALTH, INC. CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS (Unaudited)

	Three Months Ended September 30,				Nine Mon Septem	
		2019		2018	 2019	2018
Product revenue	\$	972,779	\$	1,132,067	\$ 4,268,206	\$ 2,642,880
Collaboration revenue						 177,389
Total revenue		972,779		1,132,067	4,268,206	2,820,269
Operating expenses						 
Cost of product revenue		947,495		736,733	3,072,800	1,808,918
Research and development		1,307,296		1,481,166	4,426,308	3,843,918
Sales and marketing		1,698,440		2,716,752	5,436,635	7,119,204
General and administrative		3,106,633		2,703,628	9,816,909	8,761,776
Settlement of Tempesta Royalty License Agreement		640,000		—	640,000	—
Impairment of indefinite-lived intangible assets					4,000,000	 —
Total operating expenses		7,699,864		7,638,279	27,392,652	21,533,816
Loss from operations		(6,727,085)		(6,506,212)	 (23,124,446)	 (18,713,547)
Interest expense		(1,352,845)		(872,044)	(5,556,953)	(2,185,868)
Other income (expense)		28,784		9,540	49,392	322,244
Change in fair value of warrants, derivative liability						
and conversion option liability		841,834		26,231	1,002,865	(119,134)
Gain on Valeant settlement				1,204,133	—	1,204,133
Loss on extinguishment of debt		(335,753)		—	 (4,940,911)	
Loss before income tax		(7,545,065)		(6,138,352)	(32,570,053)	(19,492,172)
Income tax expense		(10,000)		—	 (10,000)	
Net loss and comprehensive loss		(7,555,065)		(6,138,352)	 (32,580,053)	 (19,492,172)
Deemed dividend attributable to Series A preferred						
stock		—		—	—	(995,000)
Deemed dividend attributable to Series B preferred						
stock		(3,875,778)		—	(3,875,778)	_
Deemed dividend attributable to the Series 1 warrant						
modification		(252,106)		—	(252,106)	
Net loss attributable to common shareholders	\$	(11,682,949)	\$	(6,138,352)	\$ (36,707,937)	\$ (20,487,172)
Net loss per share, basic and diluted	\$	(2.00)	\$	(37.77)	\$ (13.37)	\$ (143.25)
Weighted-average common shares outstanding, basic			-			
and diluted		5,841,790		162,506	2,746,523	143,012

The accompanying notes are an integral part of these condensed consolidated financial statements.

## JAGUAR HEALTH, INC. CONDENSED CONSOLIDATED STATEMENT OF CHANGES IN CONVERTIBLE PREFERRED STOCK AND STOCKHOLDERS' EQUITY/(DEFICIT) (Unaudited)

		ies A red Stock		ries B red Stock		1mon - voting	Comn stock - no Shares	n-voting	Additional paid-in capital	Accumulated deficit	Total Stockholders'
		Amount	Snares	Amount		Amount		Amount	<u> </u>		Equity
Beginning Balance June 30, 2018	5,524,926	\$9,000,002		\$ —	124,808	\$ 12	40,301,237	\$ 4,030	\$89,772,794	\$(75,758,542)	\$14,018,294
Issuance of common stock in exchange											
for payment of interest expense											
(Kingdon)	_	_	_	_	4,580	_	_	_	479,808	_	479,808
Issuance of common stock July 2018	_	_		_	6,725	1	_		624,896	—	624,897
Issuance of common stock in debt											
financing September 2018	_	_	_	_	1.071	_	_	_	48,000	_	48,000
Issuance of warrants in debt financing											
September 2018	_	_		_	_	_	_		118,149	_	118,149
Issuance of warrants for September											
2018 office lease	_	_		_	_	_	_	_	493.688	_	493.688
Stock-based compensation	_	_	_	_	_	_	_	_	680.094	_	680.094
Net loss	_	_	_	_	_	_	_			(6,138,352)	(6,138,352)
Three Months Ended September 30,										(0,100,002)	(0,100,002)
2018	5,524,926	\$9,000,002		s —	137,184	\$ 13	40,301,237	\$ 4,030	\$92,217,429	\$(81,896,894)	\$10,324,578
	0,02 1,020	40,000L		-		÷ 10	,,,,	,000	<i></i> ,- <i>-</i> ,- <i>-</i> ,- <i>-</i> ,- <i>-</i> ,- <i>-</i> ,- <i>-</i> ,- <i></i>	- (,)()()	4 - 0,0 - 1,070

		ries A red Stock		eries B rred Stock	Com stock -		Comm stock - nor		Additional	Accumulated	Total Stockholders'
	Shares	Amount	Shares	Amount	Shares	Amount	Shares	Amount	paid-in capital	deficit	Equity
Beginning Balance June 30, 2019	5,524,926	\$9,000,002	_	\$	1,799,381	\$ 180	40,301,237	\$ 4,030	\$117,927,532	\$(119,575,767)	\$ (1,644,025)
Issuance of Series B convertible preferred stock, net	_	_	10,787	2,240,594	_	_	_	_	_	_	2,240,594
Beneficial conversion feature of the Series B convertible preferred				(0.055.550)					0.075 770		
stock Deemed dividend on the Series B	—	—	_	(3,875,778)		_	—	_	3,875,778	—	—
convertible preferred stock	_	_	_	3,875,778	_	_	_	_	(3,875,778)	_	_
Issuance of common stock in Class A Units, net	_	_	_	_	2,886,500	289	_	_	1,198,833	_	1,199,122
Issuance of Series 1 warrants in Class A and B Units	_	_	_	_	_	_	_	_	5,304,989	_	5,304,989
Issuance of Series 2 warrants in Class A and B Units	_	_	_	_	_	_	_	_	5,304,989	_	5,304,989
Modification of Series 1 warrants	_	_	_	_	_	_	_	_	252,106		252,106
Deemed dividend attributable to Series 1 warrant modification	_	_	_	_	_	_	_	_	(252,106)		(252,106)
Bridge warrant reclassification from liability to equity	_	_	_	_	_	_	_	_	4,259,327	_	4,259,327
LOC warrant reclassification from liability to equity	_	_	_	_	_	_	_	_	71,079	_	71,079
Issuance of common stock upon conversion of Series B convertible preferred stock			(8,816)	(1,831,193)	4,408,000	441			1,830,752		
Issuance of CVP Exchange		_	(0,010)	(1,031,193)	4,400,000	441		_	1,030,732		_
Notes	_	_	_	_	301.577	30		_	1.088.768	_	1,088,798
Stock-based compensation	_	_	_	_	_	_	_	_	1,110,109	_	1,110,109
Net loss										(7,555,065)	(7,555,065)
Three Months Ended September 30, 2019	5,524,926	\$9,000,002	1,971	\$ 409,401	9,395,458	\$ 940	40,301,237	\$ 4,030	\$138,096,378	\$(127,130,832)	\$11,379,917

The accompanying notes are an integral part of these condensed consolidated financial statements

## JAGUAR HEALTH, INC. CONDENSED CONSOLIDATED STATEMENT OF CHANGES IN CONVERTIBLE PREFERRED STOCK AND STOCKHOLDERS' EQUITY/(DEFICIT) (Unaudited)

		ries A red Stock Amount		ries B red Stock Amount		nmon - voting Amount	Comn Stock - no Shares		Additional paid-in capital	Accumulated deficit	Total Stockholders' Equity
Beginning Balance January 1, 2018		\$ _		\$ -	59,721	\$ 6	42,617,893	\$ 4,262	\$79,661,456	\$(62,404,722)	\$ 17,261,002
Issuance of preferred stock and common					,		,- ,		,,		
stock in a private placement	5,524,926	9,000,002		_	28,011	3	_	_	4,999,997		5,000,000
Beneficial conversion feature of the series											
A convertible preferred stock	_	(995,000)	—	—	_	—	_	—	995,000	—	995,000
Deemed dividend on the series A											
convertible preferred stock	_	995,000	—	_	_	_	_	_	(995,000)	_	(995,000)
Issuance of common stock	—	—	—	—	17,075	2	—	—	2,055,872	—	2,055,874
Issuance of common stock in exchange for											
redemption of convertible debt	_	_	-	—	13,665	1	_	—	1,607,420	-	1,607,421
Issuance of common stock in exchange for											
services	—	—	_	_	47	—	—	—	6,425	—	6,425
Issuance of common stock in exchange for											
payment of interest expense	_	_	_	-	4,081	-	_	—	704,725	_	704,725
Conversion of non-voting common stock					2 200		(2.210.050)	(222)	222		
to voting common stock	_	_		_	2,206	_	(2,316,656)	(232)	232	_	-
Issuance of common stock in exchange for					4 500				470.000		479,808
payment of interest expense (Kingdon) Issuance of common stock July 2018		_	_	_	4,582 6,725	1			479,808 624,896		624,897
Issuance of common stock in debt	_	—	_		0,725	1	_	_	024,090		024,097
financing September 2018					1,071				48,000		48,000
Issuance of warrants in debt financing			_		1,071				40,000		40,000
September 2018	_		_	_	_	_			118.149		118,149
Issuance of warrants for September 2018									110,145		110,145
office lease	_	_		_	_	_	_	_	493,688	_	493,688
Fractional common stock shares									155,000		100,000
repurchased	_	_	_	_	_	_	_	_	(30)		(30)
Stock-based compensation			_	_	_	_		_	1,416,791		1,416,791
Net loss	_	_			_	_	_	_		(19, 492, 172)	(19,492,172)
Nine Months Ended September 30, 2018	5,524,926	\$9,000,002		\$ —	137,184	\$ 13	40,301,237	\$ 4,030	\$92,217,429	\$(81,896,894)	\$ 10,324,578

The accompanying notes are an integral part of these condensed consolidated financial statements

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		ries A red Stock		eries B rred Stock		Common Common stock - voting stock - non-voting		Additional	Accumulated	Total Stockholders'	
	Shares	Amount	Shares	Amount	Shares	Amount	Shares	Amount	paid-in capital	deficit	Equity
Beginning Balance - January 1, 2019	5,524,926	\$9,000,002	_	\$ —		\$ 35	40,301,237	\$ 4,030	\$ 99,929,835	\$ (94,550,779)	\$ 5,383,121
Issuance of common stock to Oasis, put exercise	_	_	_	_	195,319	20	_	_	2,602,876	_	2,602,896
Issuance of common stock to Oasis, registered offering	_	_	_	_	19,019	1	_	_	266,265	_	266,266
Issuance of common stock in exchange of CVP Notes	_	_	_	_	395,970	40	_	_	8,224,883	_	8,224,923
Issuance of common stock in exchange for payment of interest expense (Kingdon)	_	_	_	_	19,752	2	_	_	446,727	_	446,729
Issuance of common stock in exchange of CVP Exchange Notes	_	_	_	_	1,119,440	112	_	_	6,672,838	_	6,672,950
Issuance of Series B convertible preferred stock, net	_	_	10,787	2,240,594	_	_	_	_	_	_	2,240,594
Beneficial conversion feature of the Series B convertible preferred stock	_	_	_	(3,875,778)	_	_	_	_	3,875,778	_	_
Deemed dividend on the Series B convertible preferred stock	_	_	_	3,875,778	_	_	_	_	(3,875,778)	_	_
Issuance of common stock in Class A Units, net	_	_	_	_	2,886,500	289	_	_	1,198,833	_	1,199,122
Issuance of Series 1 warrants in Class A and B Units	_	_	_	_	_	_	_	_	5,304,989	_	5,304,989
Issuance of Series 2 warrants in Class A and B Units	_	_	_	_	_	_	_	_	5,304,989	_	5,304,989
Modification of Series 1 warrants Deemed dividend attributable to	_	—	_	_	_	_	_	-	252,106		252,106
Series 1 warrant modification Bridge warrant reclassification	_	_	_	_	_	_	_	_	(252,106)		(252,106)
from liability to equity LOC warrant reclassification from	_	—	—	—	—	_	—	_	4,259,327	—	4,259,327
liability to equity Issuance of common stock upon	_	_	_	_	_	_	_	_	71,079	_	71,079
conversion of Series B convertible preferred stock	_	_	(8,816)	(1,831,193)	4,408,000	441	_	_	1,830,752	_	_
Fractional common stock shares repurchased	_	_	_	_	(14)	_	_	_	1,982,985	_	1 002 005
Stock-based compensation Net loss									1,982,985	(32,580,053)	1,982,985 (32,580,053)
Nine Months Ended September 30, 2019	5,524,926	\$9,000,002	1,971	\$ 409,401	9,395,458	\$ 940	40,301,237	\$ 4,030	\$138,096,378	\$(127,130,832)	\$ 11,379,917

The accompanying notes are an integral part of these condensed consolidated financial statements.

## JAGUAR HEALTH, INC. CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS (Unaudited)

	Nine Months Ended				
		September 30, 2019	1	September 30, 2018	
Cash flows from operating activities					
Net loss	\$	(32,580,053)	\$	(19,492,172)	
Adjustments to reconcile net loss to net cash used in operating activities:					
Depreciation and amortization expense		1,304,946		989,116	
Impairment of indefinite-lived intangible assets		4,000,000		_	
Interest paid on the conversion of debt to equity		_		21,275	
Common stock issued in exchange for services rendered		—		6,425	
Loss on extinguishment of debt		4,940,911		_	
Amortization of operating lease right-of-use-assets		554,017		—	
Stock-based compensation		1,982,985		1,416,791	
Amortization of debt issuance costs and debt discount		5,032,214		1,461,133	
Change in fair value of warrants, conversion option and derivative liability		(1,002,865)		(178,461)	
Changes in assets and liabilities					
Accounts receivable		(597,848)		(561,012)	
Other receivable		6,118		(175,009)	
Inventory		1,020,040		(477,217)	
Prepaid expenses and other current assets		(465,610)		(635,622)	
Deferred offering costs		_		(1,255,554)	
Other non-current assets		—		(289,828)	
Deferred collaboration revenue		_		(177,389)	
Operating lease liabilities		(346,679)		52,665	
Accounts payable		(662,163)		(904,577)	
Accrued expenses		(503,526)		2,370,682	
Total cash used in operating activities		(17,317,513)	_	(17,828,754)	
Cash flows from investing activities			-		
Purchase of equipment		_		(6,527)	
Total cash used in investing activities		_	-	(6,527)	
Cash flows from financing activities				(-/- )	
Proceeds from issuance of long-term debt		_		2,310,000	
Repayment of notes payable		(100,000)		(1,689,200)	
Proceeds from issuance of convertible debt		(100,000)		500,000	
Proceeds from issuance of common stock through a stock purchase agreement with a private investor		_		1,305,774	
Proceeds from the issuance of common stock in a private investment in public entities with existing investors		_		750,100	
Proceeds from the issuance of common stock, March 2018		_		5,000,000	
Proceeds from the issuance of convertible preferred stock, March 2018		_		9,000,002	
Proceeds from issuance of common stock July 2018		_		624,897	
Fractional common shares repurchased		_		(30)	
Proceeds from issuance of short-term notes payable		5,050,000		(50)	
Repayment of short-term notes payable		(5,050,000)		_	
Proceeds from the issuance of common stock, January to April 2019		2,602,896		_	
Proceeds from the issuance of common stock, March 2019		266,266		_	
Proceeds from the issuance of common stock in Class A Units, net of issuance costs, July 2019		2,074,244		_	
Payment of underwriting discounts, commissions and other associated offering costs for Class A Units		(875,122)		_	
Proceeds from the issuance of Series 1 Warrants in Class A and B Units, July 2019		5,304,989		_	
Proceeds from the issuance of Series 2 Warrants in Class A and B Units, July 2019		5,304,989		_	
Proceeds from the Issuance of Series B convertible preferred stock, net of issuance costs, July 2019		3,875,778		_	
Payment of underwriting discounts, commissions and other associated offering costs for Class B Units		(1,635,184)			
Total cash provided by financing activities		16,818,856		17,801,543	
Net increase (decrease) in cash		(498,657)		(33,738)	
Cash at beginning of period	¢	2,568,191	¢	759,867	
Cash at end of period	\$	2,069,534	\$	726,129	

The accompanying notes are an integral part of these condensed consolidated financial statements.

## JAGUAR HEALTH, INC. CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS (continued) (Unaudited)

	Nine Months Ended						
	Se	Se	ptember 30, 2018				
Supplemental disclosure of cash flow information							
Interest paid on long-term debt	\$	-	\$	19,344			
Supplemental schedule of non-cash financing and investing activities							
Common stock issued as redemption of notes payable and related interest	\$	-	\$	1,153,408			
Common stock issued as redemption of notes payable and related interest	\$	-	\$	1,638,546			
Common stock issued with September 2018 Promissory Notes	\$	-	\$	48,000			
Warrants issued with the September 2018 Promissory Notes	\$	-	\$	118,148			
Deemed dividend attributable to Series A preferred stock	\$	-	\$	995,000			
Deemed dividend attributable to modification of Series 1 warrants	\$	252,106	\$	-			
Deemed dividend attributable to Series B convertible preferred stock	\$	3,875,778	\$	-			
Common stock issued in exchange for CVP Exchange Note 1 principal and related interest	\$	6,672,950	\$	-			
Common stock issued in payment of accrued interest on Kingdon notes payable	\$	446,729	\$	-			
Common stock issued in payment of CVP Note Payable principal and related interest	\$	8,224,923	\$	-			
Common stock issued upon conversion of Series B convertible preferred stock	\$	1,831,193	\$	-			
Issuance of Bridge Notes warrants	\$	5,005,739	\$	-			
Reclassification of Bridge Note warrants from liability to equity	\$	4,259,327	\$	-			
Issuance of March 2019 LOC warrant	\$	116,297	\$	-			
Reclassification of March 2019 LOC warrants from liability to equity	\$	71,079	\$	-			

The accompanying notes are an integral part of these condensed consolidated financial statements.

## JAGUAR HEALTH, INC.

## NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

#### 1. Organization and Business

Jaguar Health, Inc. ("Jaguar", "we" or the "Company"), formerly known as Jaguar Animal Health, Inc., was incorporated on June 6, 2013 (inception) in Delaware. The Company was a majority-owned subsidiary of Napo Pharmaceuticals, Inc. ("Napo" or the "Former Parent") until the close of the Company's initial public offering on May 18, 2015. The Company was formed to develop and commercialize first-in-class gastrointestinal products for companion and production animals and horses. The Company's first commercial product, Neonorm Calf, was launched in 2014 and Neonorm Foal was launched in the first quarter of 2016. The Company's activities are subject to significant risks and uncertainties, including failing to secure additional funding in order to timely complete the development and commercialization of products.

On July 31, 2017, Jaguar completed a merger with Napo pursuant to the Agreement and Plan of Merger dated March 31, 2017 by and among Jaguar, Napo, Napo Acquisition Corporation ("Merger Sub"), and Napo's representative (the "Merger Agreement"). In accordance with the terms of the Merger Agreement, upon the completion of the merger, Merger Sub merged with and into Napo, with Napo surviving as our wholly-owned subsidiary (the "Merger" or "Napo Merger"). Immediately following the Merger, Jaguar changed its name from "Jaguar Animal Health, Inc." to "Jaguar Health, Inc." Napo now operates as a wholly-owned subsidiary of Jaguar focused on human health and the ongoing commercialization of Mytesi, a Napo drug product approved by the U.S. Food and Drug Administration ("FDA") for the symptomatic relief of noninfectious diarrhea in adults with HIV/AIDS on antiretroviral therapy.

The Company manages its operations through two segments—human health and animal health and is headquartered in San Francisco, California.

#### **Reverse stock-splits**

On May 29, 2018, the Company filed the Certificate of Second Amendment to its Third Amended and Restated Certificate of Incorporation with the Secretary of State of the State of Delaware to effect a 1-for-15 reverse stock split of the Company's issued and outstanding shares of voting common stock, effective June 1, 2018. The reverse split has been retrospectively reflected in all voting common stock, warrants, and common stock option shares disclosed in these condensed consolidated financial statements. The non-voting common stock and the convertible preferred stock were excluded from the reverse split.

On June 3, 2019, the Company filed the Certificate of Fifth Amendment to its Third Amended and Restated Certificate of Incorporation with the Secretary of State of the State of Delaware to effect a 1-for-70 reverse stock split of the Company's issued and outstanding shares of voting common stock, effective June 7, 2019. The reverse split has been retrospectively reflected in all voting common stock, warrants, and common stock option shares disclosed in these condensed consolidated financial statements. The non-voting common stock and the convertible preferred stock were excluded from the reverse split.

## Liquidity and Going Concern

The accompanying condensed consolidated financial statements have been prepared assuming the Company will continue as a going concern. The Company has incurred recurring operating losses since inception and has an accumulated deficit of \$127.1 million as of September 30, 2019. The net loss for the nine months ended September 30, 2019 was \$32.6 million. The Company expects to incur substantial losses in future periods. Further, the Company's future operations are dependent on the success of the Company's ongoing development and commercialization efforts, as well as securing additional financing. There is no assurance that profitable operations, if ever achieved, could be sustained on a continuing basis.

The Company plans to finance its operations and capital funding needs through equity and/or debt financing, collaboration arrangements with other entities, license royalty agreements, as well as revenue from future product sales. We do not believe our current capital is sufficient to fund our operating plan through one year from the issuance of these unaudited condensed consolidated financial statements. There can be no assurance that additional funding will be available to the Company on acceptable terms on a timely basis, if at all, or that the Company will generate sufficient cash from operations to adequately fund operating needs or ultimately achieve profitability. If the Company is unable to obtain an adequate level of financing needed for the long-term development and commercialization of its products, the Company will need to curtail planned activities and reduce costs. Doing so will likely have an adverse effect on the Company's ability to execute on its business plan. These matters raise substantial doubt about the ability of the Company to continue in existence as a going concern within one year after the issuance date of the condensed consolidated financial statements. The accompanying condensed consolidated financial statements do not include any adjustments that might result from the outcome of these uncertainties.

### July 2019 Underwritten Public Offering

In July 2019, the Company entered into an underwriting agreement, relating to a public offering, which was comprised of (1) 2,886,500 Class A Units, priced at \$2.00 per unit, with each unit consisting of (i) one share of the Company's voting common stock, (ii) one Series 1 warrant to purchase one share of Common Stock, and (iii) one Series 2 warrant to purchase one share of Common Stock, and (2) 10,787 Class B Units, priced at a price of \$1,000 per unit, with each unit consisting of (i) one share of Series B convertible preferred stock, convertible into 500 shares of Common Stock, (ii) 500 Series 1 Warrants and (iii) 500 Series 2 Warrants.

In total, the Company sold 2,886,500 shares of common stock (see Note 10), 10,787 shares of Series B convertible preferred stock (see Note 9), Series 1 warrants to purchase 8,280,000 shares of common stock and Series 2 warrants to purchase 8,280,000 shares of common stock (see Note 8), including the full exercise of the over-allotment option. The total gross proceeds to the Company from the offering was \$16,560,000, or \$14,049,697 net of issuance and other costs of \$2,510,303.

### 2. Summary of Significant Accounting Policies

#### **Basis of Presentation**

The condensed consolidated financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America ("U.S. GAAP") for interim financial information and on a basis consistent with the annual consolidated financial statements, and in the opinion of management, reflect all adjustments, which include only normal recurring adjustments, necessary for a fair presentation of the periods presented. These interim financial results are not necessarily indicative of the results to be expected for the year ending December 31, 2019, or for any other future annual or interim period. These unaudited condensed consolidated financial statements should be read in conjunction with the consolidated financial statements and notes thereto contained in our Annual Report on Form 10-K for the year ended December 31, 2018.

There has been a material change to the Company's significant accounting policies during the three months and nine months ended September 30, 2019, as compared to the significant accounting policies described in Note 2 of the "Notes to Condensed Consolidated Financial Statements" in the Company's Annual Report on Form 10-K for the year ended December 31, 2018. The Company adopted ASC ("Accounting Standards Codification") 842 "Leases" and implemented a new policy to account for modifications of preferred stock using the model in ASC 470-50.

#### Principals of Consolidation

The condensed consolidated financial statements have been prepared in accordance with U.S. GAAP and applicable rules and regulations of the Securities and Exchange Commission ("SEC") and include the accounts of the Company and its wholly-owned subsidiary. All inter-company transactions and balances have been eliminated in consolidation.

## Use of Estimates

The preparation of consolidated financial statements in conformity with U.S. GAAP requires the Company's management to make judgments, assumptions and estimates that affect the amounts reported in its consolidated financial statements and the accompanying notes. The accounting policies that reflect the Company's more significant estimates and judgments and that the Company believes are the most critical to aid in fully understanding and evaluating its reported financial results are valuation of stock options; valuation of warrant liabilities; valuation of derivative liability, impairment testing of goodwill, acquired in-process research and development ("IPR&D"), and long lived assets; useful lives for depreciation and amortization; valuation adjustments for excess and obsolete inventory; allowance for doubtful accounts; deferred taxes and valuation allowances on deferred tax assets; evaluation and measurement of contingencies; and recognition of revenue, including estimates for product returns. Those estimates could change, and as a result, actual results could differ materially from those estimates.

#### Concentrations

Cash is the financial instrument that potentially subjects the Company to a concentration of credit risk as cash is deposited with a bank and cash balances are generally in excess of Federal Deposit Insurance Corporation insurance limits. The carrying value of cash approximates fair value at September 30, 2019 and December 31, 2018.

For the three and nine months ended September 30, 2019 and 2018, substantially all of the Company's revenue has been derived from the sale of Mytesi. For the three months and nine months ended September 30, 2019, the Company earned Mytesi revenue primarily from one pharmaceutical distributor in the United States. For the three and nine months ended September 30, 2018, the Company earned Mytesi revenue primarily from three pharmaceutical distributors in the United States, each of whom amounted to a percentage of total net revenue of at least 10%. Revenue earned from each as a percentage of total net revenue is as follows:

Consolidated (percentage of total net sales)	Three Mont Septemb		Nine Months Ended September 30,		
	2019	2018	2019	2018	
Customer 1	100 %	34 %	90 %	28 %	
Customer 2	— %	28 %	— %	28 %	
Customer 3	— %	25 %	— %	25 %	

The Company is subject to credit risk from its accounts receivable related to its sales. The Company generally does not perform evaluations of customers' financial condition and generally does not require collateral. The Company's significant pharmaceutical distributors and their related accounts receivable balance as a percentage of total accounts receivable were as follows:

	As of September 30, 2019	As of September 30, 2018
Customer 1	99.6 %	35.0 %
Customer 2	— %	29.0 %
Customer 3	— %	26.0 %

No other customer represented more than 10% of the Company's accounts receivable balances as of those dates.

The Company is subject to credit risk from its inventory suppliers. The Company sources drug substance from a single supplier and drug product from a single supplier.

## Fair Value

The Company's financial instruments include, cash, accounts receivable, accounts payable, warrant liabilities, derivative liability, debt conversion option liability, and debt. The recorded carrying amount of accounts receivable, accounts payable and accrued expenses reflect their fair value due to their short-term nature. The carrying value of the interest-bearing debt approximates fair value based upon the borrowing rates currently available to the Company for bank loans with similar terms and maturities. See Note 3 for the fair value measurements.

#### Inventories

Inventories are stated at the lower of cost or net realizable value. The Company calculates inventory valuation adjustments when conditions indicate that net realizable value is less than cost due to physical deterioration, usage, obsolescence, reductions in estimated future demand or reduction in selling price. Inventory write-downs are measured as the difference between the cost of inventory and net realizable value.

## Land, Property and Equipment

Land is stated at cost, reflecting fair value of the property at July 31, 2017, the date of the Napo merger. Equipment is stated at cost, less accumulated depreciation. Equipment begins to be depreciated when it is placed into service. Depreciation is calculated using the straight-line method over the estimated useful lives of 3 to 10 years.

Expenditures for repairs and maintenance of assets are charged to expense as incurred. Costs of major additions and betterments are capitalized and depreciated on a straight-line basis over their estimated useful lives. Upon retirement or sale, the cost and related accumulated depreciation of assets disposed of are removed from the accounts and any resulting gain or loss is included in the statements of operations and comprehensive loss.

#### Long-Lived Assets

The Company regularly reviews the carrying value and estimated lives of all of its long-lived assets, including property and equipment to determine whether indicators of impairment may exist that warrant adjustments to carrying values or estimated useful lives. The determinants used for this evaluation include management's estimate of the asset's ability to generate positive income from operations and positive cash flow in future periods as well as the strategic significance of the assets to the Company's business objectives.

Definite-lived intangible assets are amortized on a straight-line basis over the estimated periods benefited and are reviewed when appropriate for possible impairment.

#### Goodwill and Indefinite-lived Intangible Assets

Goodwill is tested for impairment on an annual basis and in between annual tests if events or circumstances indicate that an impairment loss may have occurred. The test is based on a comparison of the reporting unit's book value to its estimated fair value. The Company performs the annual impairment test during the fourth quarter of each fiscal year using the opening consolidated balance sheet as of the first day of the fourth quarter, with any resulting impairment recorded in the fourth quarter of the fiscal year. The Company did not record an impairment of goodwill during the three and nine months ended September 30, 2019 and 2018.

Acquired in-process research and development ("IPR&D") are intangible assets acquired in the July 2017 Napo merger. Under ASC 805, IPR&D are initially recognized at fair value and classified as indefinite-lived assets until the successful completion or abandonment of the associated research and development efforts. During the development period, these assets will not be amortized as charges to earnings; instead these assets will be tested for impairment on an annual basis or more frequently if impairment indicators are identified. The Company recorded an impairment of zero and \$4,000,000 in the three and nine months ended September 30, 2019, respectively. There were no impairment charges recorded in the three and nine months ended September 30, 2018. The impairment loss is measured based on the excess of the carrying amount over the asset's fair value. Definite-lived intangible assets are amortized on a straight-line basis over the estimated periods benefited and are reviewed when appropriate for possible impairment.

## Leases

ASC 842, Leases, requires lessees to recognize right-of-use assets and lease liabilities for all leases with a term of greater than 12 months regardless of their classification on the balance sheet and to provide expanded disclosures about leasing arrangements. The Company adopted ASC 842 on January 1, 2019 using the optional transition method with no restatements of comparative periods. There was no effect on accumulated deficit at adoption.

The Company elected to adopt the package of practical expedients to (i) not reassess whether expired or existing contracts are or contain leases, (ii) not reassess the lease classification for any expired or existing leases and (iii) not reassess the accounting for initial direct costs.

The adoption of the new leases standard resulted in the following adjustments to the consolidated balance sheet as of January 1, 2019:

	December 31, 2018		Adoption Impact (unaudited)	January 1, 2019
Operating lease right-of-use assets	\$ _	\$	1,111,214 \$	5 1,111,214
Operating leases liabilities, current portion	—		336,647	336,647
Operating leases liabilities, long term	—		394,703	394,703
Deferred rent	379,864		(379,864)	_

At the inception of an arrangement, the Company determines whether the arrangement is or contains a lease based on the unique facts and circumstances present. Operating lease liabilities and their corresponding right-of-use assets are recorded based on the present value of lease payments over the expected lease term. Because the interest rate implicit in lease contracts is typically not readily determinable, the Company utilizes its incremental borrowing rate, which is the rate incurred to borrow on a collateralized basis over a similar term, an amount equal to the lease payments in a similar economic environment. Certain adjustments to the right-of-use asset may be required for items such as initial direct costs paid or incentives received.

## **Operating** Lease

The Company has a non-cancelable operating lease with CA-Mission Street Limited Partnership for its offices in San Francisco, California through September 1, 2020. The lease agreement calls for monthly base rents between \$38,391 and \$40,730 over the term of the lease.

Prior to the Company's adoption of ASC 842 on January 1, 2019, the Company recorded lease expense for its operating leases in accordance with ASC 840.

### **Research and Development Expense**

Research and development expense consists of expenses incurred in performing research and development activities including related salaries, clinical trial and related drug and non-drug product costs, contract services and other outside service expenses. Research and development expense is charged to operating expense in the period incurred.

#### **Revenue Recognition**

The Company recognizes revenue in accordance with ASC Topic 606, *Revenue from Contracts with Customers* ("ASC 606"), which was adopted on January 1, 2018, using the modified retrospective method, which was elected to apply to all active contracts as of the adoption date. Application of the modified retrospective method did not impact amounts previously reported by the Company, nor did it require a cumulative effect adjustment upon adoption, as the Company's method of recognizing revenue under ASC 606 yielded similar results to the method utilized immediately

prior to adoption. Accordingly, there was no effect to each financial statement line item as a result of applying the new revenue standard.

## Practical Expedients, Elections, and Exemptions

The Company recognizes revenue in accordance with the core principle of ASC 606 or when there is a transfer of control of promised goods or services to customers in an amount that reflects the consideration that the Company expects to be entitled to in exchange for those goods or services.

The Company elected a practical expedient available under ASC 606-10-65-1(f)4 that permits it to consider the aggregate effect of all contract modifications that occurred before the beginning of the earliest period presented when identifying satisfied and unsatisfied performance obligations, transaction price, and allocating the transaction price to the satisfied and unsatisfied performance obligations.

The Company also elected a practical expedient available under ASC 606-10-32-18 that permits it to not adjust the amount of consideration for the effects of a significant financing component if, at contract inception, the expected period between the transfer of promised goods or services and customer payment is one year or less.

The Company has elected to treat shipping and handling activities as fulfillment costs.

Additionally, the Company elected to record revenue net of sales and other similar taxes.

#### Contracts

Effective January 16, 2019, Napo Pharmaceuticals, Inc. engaged Cardinal Health as its exclusive third party logistics distribution agent for commercial sales for the Company's Mytesi product and to perform certain other services which include, without limitation, storage, distribution, returns, customer support, financial support, Electronic Data Interchange ("EDI") and system access support (the "Exclusive Distribution Agreement").

In addition to the terms and conditions of the Exclusive Distribution Agreement, Cardinal Health's purchase of products, and assumption of title therein, is set forth in the Title Model Addendum. The Title Model Addendum states that upon receipt of product at the 3PL Facility (Cardinal Health in La Vergne, Tennessee) from the Company, title and risk of loss for the Mytesi product purchased by Cardinal Health (excluding consigned inventory) shall pass to Cardinal Health, and title and risk of loss for consigned inventory shall remain with the Company until purchased by Cardinal Health in accordance with the Title Model Addendum. Napo Pharmaceuticals, Inc. considers Cardinal Health the Company's exclusive customer for Mytesi products per the Exclusive Distribution Agreement.

Jaguar's Neonorm and botanical extract products are primarily sold to distributors, who then sell the products to the end customers. Since 2014, the Company has entered into several distribution agreements with established distributors such as Animart, Vedco, VPI, RJ Matthews, Henry Schein, and Stockmen Supply to distribute the Company's products in the United States, Japan, and China. The distribution agreements and the related purchase order together meet the contract existence criteria under ASC 606-10-25-1. Jaguar sells directly to its customers without the use of an agent.

#### Performance obligations

For animal products sold by Jaguar Health, the single performance obligation identified above is the Company's promise to transfer the Company's animal products to distributors based on specified payment and shipping terms in the arrangement. Product warranties are assurance type warranties that do not represent a performance obligation. For the Company's human product, Mytesi, which is sold by Napo Pharmaceuticals Inc., the single performance obligation identified above is the Company's promise to transfer Mytesi to Cardinal Health, the Company's exclusive distributor for the product, based on specified payment and shipping terms as outlined in the Exclusive Distribution Agreement. The product warranties are assurance type warranties that do not represent a performance obligation.

#### **Transaction price**

For both Jaguar and Napo, the transaction price is the amount of consideration to which the Company expects to collect in exchange for transferring promised goods or services to a customer. The transaction price of Mytesi and Neonorm is the Wholesaler Acquisition Cost ("WAC"), net of discounts, returns, and price adjustments.

### Allocate transaction price

For both Napo and Jaguar, the entire transaction price is allocated to the single performance obligation contained in each contract.

## Point in time recognition

For both Napo and Jaguar, a single performance obligation is satisfied at a point in time, upon the free on board ("FOB") terms of each contract when control, including title and all risks, has transferred to the customer.

### **Disaggregation of Product Revenue**

#### Human

Sales of Mytesi are recognized as revenue when the products are delivered to the wholesaler. Revenues from the sale of Mytesi were \$957,059 and \$1,107,682 for the three months ended September 30, 2019 and 2018, respectively. Revenues from the sale of Mytesi were \$4,184,912 and \$2,545,121 for the nine months ended September 30, 2019 and 2018, respectively. The increase in sales of Mytesi is due to the more streamlined distribution channel and increased sales presence.

*Out of period adjustment* - During the period ended September 30, 2019, the Company identified a prior period product donation incorrectly recorded as revenue. The adjustment, totaling \$336,934 related to revenue and accounts receivable, was corrected within the current quarter. The impact of the adjustment was an increase to net loss of \$336,934. This adjustment does not affect Mytesi revenue associated with sales in the nine months ended September 30, 2019. Management has determined that this out of period correcting adjustment is not material to any prior period consolidated financial statements impacted by the adjustment and has therefore recorded it in the three months ended September 30, 2019.

#### Animal

The Company recognized Neonorm revenues of \$15,720 and \$24,385 for the three months ended September 30, 2019 and 2018, respectively. Revenues from the sale of Neonorm were \$83,294 and \$97,759 for the nine months ended September 30, 2019 and 2018, respectively. Revenues are recognized upon shipment which is when title and control is transferred to the buyer. Sales of Neonorm Calf and Foal to distributors are made under agreements that may provide distributor price adjustments and rights of return under certain circumstances.

#### **Collaboration Revenue**

On January 27, 2017, the Company entered into a licensing, development, co-promotion and commercialization agreement with Elanco US Inc. ("Elanco") to license, develop and commercialize Canalevia, the Company's drug product candidate under investigation for treatment of acute and chemotherapy-induced diarrhea in dogs, and other drug product formulations of crofelemer for treatment of gastrointestinal diseases, conditions and symptoms in cats and other companion animals. On November 1, 2017, the Company received a letter from Elanco serving as formal notice of their decision to terminate the agreement by giving the Company 90 days written notice. According to the agreement, termination became effective on January 30, 2018. Under the terms of the agreement, the Company received revenue of \$0 and \$177,389 in the nine months ended September 30, 2019 and 2018, respectively. There was no revenue recognized in the three months ended September 30, 2019 and 2018.

On September 24, 2018, the Company entered into a Distribution, License and Supply Agreement ("License Agreement") with Knight Therapeutics, Inc. ("Knight"). The License Agreement has a term of 15 years (with automatic renewals) and provides Knight with an exclusive right to commercialize current and future Jaguar human health products (including Crofelemer, Lechlemer, and any product containing a proanthocyanidin or with an anti-secretory mechanism) in Canada and Israel. In addition, Knight was granted a right of first negotiation for expansion to Latin America. Under the License Agreement, Knight is responsible for applying for and obtaining necessary regulatory approvals in the territory of Canada and Israel, as well as marketing, sales and distribution of the licensed products. Knight will pay a transfer price for all licensed products, and upon achievement of certain regulatory and sales milestones, Jaguar may receive payments from Knight in an aggregate amount of up to approximately \$18 million payable throughout the initial 15-year term of the agreement. The Company did not have any license revenues in the three months and nine months ended September 30, 2019 and 2018.

## Modifications to equity-classified instruments

In September 2019, the Company modified its equity-classified Series 1 Warrants (see Note 7). It is the Company's policy to determine the impact of such equity-classified modifications by analogy to the share-based compensation guidance of ASC 718, *Compensation - Stock Compensation*. The model for a modified share-based payment award that is classified as equity and remains classified in equity after the modification is addressed in ASC 718-20-35-3. Pursuant to that guidance, the incremental fair value from the modification is recognized as an expense in the income statement to the extent the modified instrument has a higher fair value. The Company uses a similar model for measuring the effects of a modification to equity-classified warrants, however, in contrast to the 718 model, the measured increase in fair value may be more appropriately recorded as a deemed dividend, depending upon the nature of the modification.

#### **Comprehensive Income (Loss)**

For all periods presented, the comprehensive income (loss) was equal to the net income (loss); therefore, a separate statement of comprehensive income (loss) is not included in the accompanying condensed consolidated financial statements.

#### **Recent Accounting Pronouncements**

Except as described in Note 2 – *Basis of Presentation*, there have been no other new accounting pronouncements adopted by the Company besides the adoption of ASC 842 "Leases" and implementation of a new policy to account for modifications of preferred stock using the model in ASC 470-50 during the three months and nine months ended September 30, 2019, that the Company believes are of significance or potential significance to the Company.

In June 2018, the Financial Accounting Standards Board ("FASB") issued ASU 2018-07, *Compensation - Stock Compensation (Topic 718): Improvements to Nonemployee Share-Based Payment Accounting.* This update expands the scope of Topic 718 to include share-based payment transactions for acquiring goods and services from nonemployees. The amendments specify that Topic 718 applies to all share-based payment transactions in which a grantor acquires goods or services to be used or consumed in a grantor's own operations by issuing share-based payment awards. The amendments also clarify that Topic 718 does not apply to share-based payments used to effectively provide (1) financing to the issuer or (2) awards granted in conjunction with selling goods or services to customers as part of a contract accounted for under ASC 606. The amendments in ASU 2018-07 are effective for public business entities for fiscal years beginning after December 15, 2018, including interim periods within that fiscal year. Early adoption is permitted. The Company adopted this standard on January 1, 2019, and this standard did not have a material impact on the Company's financial position, results of operations or disclosures.

In August 2018, the FASB issued ASU 2018-15, *Intangible - Goodwill and Other - Internal-Use Software (Subtopic 350-40)*, which aligns the requirements for capitalizing implementation costs incurred in a hosting arrangement that is a service contract with the requirements for capitalizing implementation costs incurred to develop or

obtain internal-use software. ASU 2018-15 is effective for the Company in the first quarter of 2020. Early adoption is permitted. ASU 2018-15 permits either a prospective or retrospective transition approach. The Company is currently evaluating ASU 2018-15 to determine the impact to its condensed consolidated financial statements and related disclosures. The Company is evaluating the impact of the adoption of ASU 2016-13 on its Condensed Consolidated Financial Statements.

In August 2018, the FASB issued ASU 2018-13, *Fair Value Measurement (Topic 820)*. The new guidance modifies the disclosure requirements on fair value measurements. ASU 2018-13 is effective for the Company beginning in the first quarter of 2020 and must be adopted on a modified retrospective basis, with certain exceptions. Early adoption is permitted. The Company does not expect ASU 2018-13 to have a significant impact to its condensed consolidated financial statements and related disclosures.

### 3. Fair Value Measurements

ASC 820 "Fair Value Measurements," defines fair value, establishes a framework for measuring fair value under generally accepted accounting principles and enhances disclosures about fair value measurements. Fair value is defined under ASC 820 as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Valuation techniques used to measure fair value under ASC 820 must maximize the use of observable inputs and minimize the use of unobservable inputs. The standard describes a fair value hierarchy based on three levels of inputs, of which the first two are considered observable and the last unobservable, that may be used to measure fair value which are the following:

- · Level 1— Observable inputs such as quoted prices (unadjusted) for identical instruments in active markets.
- Level 2— Observable inputs such as quoted prices for similar instruments in active markets, quoted prices for identical or similar instruments in markets that are not active, or model derived valuations whose significant inputs are observable.
- · Level 3— Unobservable inputs that reflect the reporting entity's own assumptions.

The following tables set forth the fair value of the Company's financial instruments that were measured at fair value on a recurring basis as of September 30, 2019 and December 31, 2018.

		September 30, 2019 (unaudited)					
	Level 1						
Warrant liability	\$ —	\$ -	- \$10,029	\$ 10,029			
Total fair value	\$ —	\$ -	- \$10,029	\$ 10,029			
	_	December 31, 2018					
	Level 1	Level 2	Level 3	Total			
Warrant liability	\$ —	\$ —	\$ 220,376	\$ 220,376			
Total fair value	\$ —	\$ —	\$ 220,376	\$ 220,376			

The change in the estimated fair value of Level 3 liabilities is summarized below:

	e Months Ended <u>tember 30, 2019</u> Warrant Liability (unaudited)	
Beginning fair value of Level 3 liability	\$ 220,376	
Additions	5,122,039	
Reclassification to equity	(4,329,521)	
Change in fair value	(1,002,865)	
Ending fair value of Level 3 liability	\$ 10,029	

#### Warrant Liability

The warrants associated with the Level 3 warrant liability activity for the nine months ended September 30, 2019 were the November 2016 Series A warrants, the October 2018 Underwriter warrants, the March 2019 LOC warrants and the Bridge warrants, which at September 30, 2019 were valued at \$49 and \$9,980, zero and zero, respectively in the Company's condensed consolidated balance sheet. At December 31, 2018, the warrants associated with the Level 3 warrant liability were the November 2016 Series A Warrants and the October 2018 Underwriter Warrants, which were valued at \$7,388 and \$212,988, respectively in the Company's consolidated balance sheet.

#### The Series A Warrants

The Series A warrant valuation of \$7,388 at December 31, 2018 was computed using the Black-Scholes-Merton pricing model using a stock price of \$16.10, a strike price of \$787.50 per share, an expected term of 3.41 years, volatility of 135.63% and a risk-free discount rate of 2.46%. The Series A warrant valuation of \$49 at September 30, 2019 was computed using the Black-Scholes-Merton pricing model using a stock price of \$1.31, a strike price of \$787.50, an expected term of 2.66 years, volatility of 144.31% and a risk-free discount rate of 1.56%. For the three and nine months ended September 30, 2019, the net change in the fair value of the warrants of \$1,004 and \$7,339, respectively, was recorded as a gain in the change in fair value of warrants, derivative liability and conversion option liability in the condensed statements of operations.

## The October 2018 Underwriter Warrants

The October 2018 Underwriter Warrants valuation of \$212,988 at December 31, 2018 was computed using the Black-Scholes-Merton pricing model using a stock price of \$16.10, a strike price of \$52.50, an expected term of 4.76 years, volatility of 135.63% and a risk-free discount rate of 2.51%. The October 2018 Underwriter Warrants valuation of \$9,980 at September 30, 2019 was computed using the Black-Scholes-Merton pricing model using a stock price of \$1.31, a strike price of \$52.50 per share, an expected term of 4.01 years, volatility of 144.31% and a risk-free discount rate of 1.55%. For the three and nine months ended September 30, 2019, the net change in the fair value of the warrants of \$42,285 and \$203,008, respectively, was recorded as a gain in the change in fair value of warrants, derivative liability and conversion option liability in the condensed statements of operations

#### March 2019 LOC Warrants

The March 2019 LOC Warrants were issued on March 29, 2019 with a valuation at issuance and at March 31, 2019 of \$116,297, computed using the Black-Scholes-Merton pricing model using a stock price of \$19.60, a strike price of \$17.50 per share, an expected term of 5.0 years, volatility of 145.72% and a risk-free discount rate of 2.23%. On July 23, 2019, at which date the exercise price of the March 2019 LOC warrants became fixed, the March 2019 LOC warrants were reclassified from liability classification to equity classification. Immediately prior to reclassification to equity, the March 2019 LOC Warrant liability was valued at \$71,079 using the Black-Scholes-Merton pricing model, calculated using a stock price of \$1.73, a strike price of \$2.00, an expected term of 5.00 years, volatility of 147.43% and a risk-free discount rate of 1.83%. For the three and nine months ended September 30, 2019, there was a gain in the fair

value of the warrants of \$79,891 and \$45,218, respectively, which was recorded as a gain in the change in fair value of warrants, derivative liability and conversion option liability in the consolidated statements of operations.

## 2019 Bridge Warrants

The 2019 Bridge Warrants were issued between March and June 2019, concurrent to the Company entering into short-term Promissory Notes of \$5,050,000 (see Note 7). The Company issued (i) fourteen Notes with a principal balance of \$3,550,000 and warrant coverage at 125% of principal, and (ii) seven Notes with a principal balance of \$1,500,000 and warrant coverage at 75% of principal. At issuance, the exercise price of the warrants was either (i) the price the Company issued common shares in its next public offering subject to a registration statement or (ii) if no such offering were consummated by the four-month maturity date of the Promissory Notes, then the exercise price would be equal to the closing price of the Company's common stock on the Notes four-month maturity date. The warrants for all twenty-one Bridge Notes had a collective issuance date fair value of \$5,005,739, computed using the Black-Scholes-Merton pricing model using a range of stock prices between \$4.84 and \$32.90, a range of strike prices between \$4.84 and \$32.90 per share, an expected term of 5.0 years, a range of volatilities between 145.60% and 145.72%, and a range of risk-free discount rates between 1.76% and 2.23%. At issuance, all twenty-one warrants were liability classified. On July 23, 2019, upon the Company's filing of a registration statement, the exercise price for all twenty-one warrants became fixed at \$2.00, at which point the Bridge warrants were reclassified from liability classification to equity classification. Immediately prior to reclassification, the liability for all twenty-one Bridge Warrants had a collective fair value of \$4,259,327, calculated using the Black-Scholes-Merton pricing model using a stock price of \$1.73, a strike price of \$2.00 per share, an average expected term of 4.80 years, volatility of 145.84% and a risk-free discount rate of 1.76%. For the three and nine months ended September 30, 2019, the net change in the fair value of the warrants of \$718,654 and \$747,300, respectively, was recorded as a gain in the change in fair value of warrants, derivative liability and conversion option liability in the consolidated statements of operations.

#### 4. Balance Sheet Components

### Goodwill

The change in the carrying amount of goodwill at September 30, 2019 and December 31, 2018 was as follows:

	September 30, 2019 (unaudited)	December 31, 2018
Beginning balance	\$ —	\$ 5,210,821
Impairment		(5,210,821)
Ending balance	\$ —	\$ —

## **Intangible** Assets

Intangible assets at September 30, 2019 and December 31, 2018 consisted of the following:

	September 30, 2019 (unaudited)	December 31, 2018
Developed technology	\$ 25,000,000	\$ 25,000,000
Accumulated developed technology amortization	(3,611,112)	(2,361,111)
Developed technology, net	21,388,888	22,638,889
In-process research and development	8,800,000	8,800,000
Impairment	(4,000,000)	
In process research and development, net	4,800,000	8,800,000
Trademarks	300,000	300,000
Accumulated trademark amortization	(43,333)	(28,333)
Trademarks, net	256,667	271,667
Total intangible assets, net	\$ 26,445,555	\$ 31,710,556

In June 2019 the Company determined that in-process research and development was impaired and recorded an impairment loss of \$4.0 million in the statements of operations. Amortization expense was \$421,667 and \$1,265,001 for the three and nine months ended September 30, 2019, respectively, and \$421,667 and \$1,265,001 for the three and nine months ended September 30, 2018, respectively.

The following table summarizes the Company's estimated future amortization expense of intangible assets with finite lives as of September 30, 2019:

		An	nounts
2019	(remaining)	5	421,667
	2020	-	1,686,667
	2021	-	1,686,667
	2022	-	1,686,667
	2023	-	1,686,667
	2024	-	1,686,667
	Thereafter	12	2,790,553
		5 22	1,645,555

#### 5. Related Party Transactions

#### **Management Services Agreement**

In March 2018, concurrent with the issuance of the Company's Series A convertible participating preferred stock to Sagard Capital Partners, the Company entered into a Management Services Agreement with Sagard Capital Partners. Under the agreement, Sagard Partners will provide consulting and management advisory service to the Company from March 2018 through March 2021. These services include assistance with strategic planning regarding the Company's commercial strategy, research and due diligence regarding human resource activities, and strategic advice in financial matters. In consideration for such services, the Company will pay Sagard Capital Partners an annual fee of \$450,000, with total fees over the term of the agreement not to exceed \$1,350,000. As of September 30, 2019, with respect to this agreement, the Company had paid Sagard Capital Partners aggregate fees of \$250,000 and has a balance due of \$425,000.

## Letter of Credit

To satisfy the letter of credit requirement in the Company's new office lease agreement, Pacific Capital Management, LLC, one of the Company's existing shareholders, caused its financial institution to issue a letter of credit

in the amount of \$475,000 on behalf of the Company, dated August 28, 2018. In consideration of the letter of credit, in August 2018 the Company issued to Capital Management, LLC a warrant to purchase 9,580 shares of the Company's voting common stock. The warrant is exercisable on or after March 28, 2019 at an exercise price of \$49.00 and has a five-year term. The \$493,688 fair value of the Warrant was classified in stockholders' equity (see Note 6). Additionally, a payment of \$45,000 is due to Capital Management, LLC by November 28, 2019.

#### 2019 Bridge Notes

Between March 18, 2019 and June 26, 2019, three members of the Board of Directors of the Company had entered into short-term Promissory Note Purchase Agreements (see Note 7, the "2019 Bridge Notes") with the Company: (i) Lisa Conte, the Company's CEO & President, purchased a short-term Promissory Note of \$100,000 which the Company settled in July 2019. In consideration for the short-term financing, the Company issued Ms. Conte a warrant that became exercisable into 37,500 shares of the Company settled in July 2019. In consideration for the Company settled in July 2019. In consideration for the Company settled in July 2019. In consideration for the short-term financing, the Company issued Mr. Bochnowski a warrant that became exercisable into 218,750 shares of the Company's common stock; and (iii) Jonathan Siegel DBA JBS Healthcare Ventures, purchased a short-term Promissory Note of \$75,000 which the Company settled in July 2019. In consideration for the short-term financing, the Company settled in July 2019. In consideration for the Size of the Company settled in July 2019. In consideration for the Size of the Company settled in July 2019. In consideration for the Size of the Company settled in July 2019. In consideration for the Size of the Company settled in July 2019. In consideration for the short-term financing, the Company issued Mr. Siegal a warrant that became exercisable into 34,375 shares of the Company's common stock.

In addition, Sagard Capital Partners purchased a short-term Promissory Note of \$500,000 which the Company settled in July 2019. In consideration for the short-term financing, the Company issued Sagard Capital Partners a warrant that became exercisable into 187,500 shares of the Company's common stock; and Jonathan Glaser, an existing shareholder, purchased short-term Promissory Notes of \$500,000 which the Company settled in July 2019. In consideration for the short-term financing, the Company issued Mr. Glaser warrants that became exercisable into 250,000 shares of the Company's common stock.

#### 6. Commitments and Contingencies

#### Commitments

On August 28, 2018, the Company entered into an office lease extension agreement for approximately 6,311 square feet of office space in San Francisco, CA. The term of the Lease began on September 1, 2018 and will expire on September 30, 2020, unless earlier terminated in accordance therewith. The monthly base rent under the Lease is as follows: \$38,392 for the first twelve months, \$39,544 for the subsequent twelve months, and \$40,730 for the final month. The Company will also pay an additional monthly amount for the Company's proportionate share of the building's operating charges. An existing shareholder provided a standby letter of credit in the amount of \$475,000 to the Lessor as collateral for the full performance by the Company of all of its obligations under the Lease. In consideration of the Letter of Credit, the Company issued the existing shareholder a five-year warrant to purchase 9,580 shares of the Company's voting common stock (see Note 5). The Warrant is exercisable on or after March 28, 2019 at an exercise price of \$49.00 per share. The fair value of the warrant was determined to be \$493,688 using the Black-Scholes-Merton model with the following criteria: stock price of \$58.80 per share, expected life of 5 years, volatility of 132%, risk-free rate of 2.77% and dividend rate of 0%. The \$493,688 fair value of the Warrant was classified in stockholders' equity with an offset to Operating lease – right-of-use asset. Each month, \$19,748 of this rent will be recognized as non-cash lease expense.

In December 2018, the Company did not meet a covenant per the terms of the \$475,000 Letter of Credit, the result of which required the Company to issue a Letter of Credit of \$122,000 to the shareholder who issued the original \$475,000 letter of credit. In March 2019, the Company canceled the \$122,000 letter of credit in lieu of issuing the shareholder a promissory note for that amount in April 2019, as well as issuing the shareholder a warrant (see Note 7).

The Company recognizes lease expense on a straight-line basis over the non-cancelable lease period. Lease expense was \$152,741 and \$554,017 for the three and nine months ended September 30, 2019, and \$117,435 and \$297,993 for the three and nine months ended September 30, 2018. Lease expense is included in general and administrative expense in the statements of operations.

### Asset transfer and transition commitment update

On September 25, 2017, Napo entered into the Termination, Asset Transfer and Transition Agreement dated September 22, 2017 with Glenmark Pharmaceuticals Ltd. ("Glenmark"). As a result of the agreement, Napo now controls commercial rights for Mytesi® for all indications, territories and patient populations globally, and also holds commercial rights to the existing regulatory approvals for crofelemer in Brazil, Ecuador, Zimbabwe and Botswana. In exchange, Napo agrees to pay Glenmark 25% of any payment it receives from a third party to whom Napo grants a license or sublicense or with whom Napo partners in respect of, or sells or otherwise transfers any of the transferred assets, subject to certain exclusions, until Glenmark has received a total of \$7.0 million. No payments have been made to date.

## Revenue sharing commitment update

On December 14, 2017, the Company announced its entry into a collaboration agreement with Seed Mena Businessmen Services LLC ("SEED") for Equilevia<sup>™</sup>, the Company's non-prescription, personalized, premium product for total gut health in equine athletes. According to the terms of the Agreement, the Company will pay SEED 15% of total revenue generated from any clients or partners introduced to the Company by SEED in the form of fees, commissions, payments or revenue received by the Company or its business associates or partners, and the agreed-upon revenue percentage increases to 20% after the first million dollars of revenue. In return, SEED will provide the Company access to its existing United Arab Emirates ("UAE") network and contacts and assist the Company with any legal or financial requirements. The agreement became effective on December 13, 2017 and will continue indefinitely until terminated by either party pursuant to the terms of the Agreement. Upon termination for any reason, the Company remained obligated to make Revenue Sharing Payments to SEED until the end of 2018. No payments have been made to date.

#### Legal Proceedings

On July 20, 2017, a putative class action complaint was filed in the United States District Court, Northern District of California, Civil Action No. 3:17-cv-04102, by Tony Plant (the "Plaintiff") on behalf of shareholders of the Company who held shares on April 12, 2017 and were entitled to vote at the 2017 Special Shareholders Meeting, against the Company and certain individuals who were directors as of the date of the vote (collectively, the "Defendants"), in a matter captioned Tony Plant v. Jaguar Animal Health, Inc., et al., making claims arising under Section 14(a) and Section 20(a) of the Exchange Act and Rule 14a-9, 17 C.F.R. § 240.14a-9, promulgated thereunder by the SEC. The claims alleged false and misleading information provided to investors in the Joint Proxy Statement/Prospectus on Form S-4 (File No. 333-217364) declared effective by the Commission on July 6, 2017 related to the solicitation of votes from shareholders to approve the merger and certain transactions related thereto. The Company accepted service of the complaint and summons on behalf of itself and the United States-based director Defendants on November 1, 2017. The Company has not accepted service on behalf of, and Plaintiff has not yet served, the non-U.S.-based director Defendants.

On October 3, 2017, Plaintiff filed a motion seeking appointment as lead plaintiff and appointment of Monteverde & Associates PC as lead counsel. That motion was granted. Plaintiff filed an amended complaint against the Company and the United States-based director Defendants on January 10, 2018. The Defendants filed a motion to dismiss on March 12, 2018, for which oral arguments were held on June 14, 2018. The court dismissed the amended complaint on September 20, 2018 but gave Plaintiff leave to amend the complaint within 20 days from the date of dismissal. On October 10, 2018, Plaintiff amended the complaint to focus on the Company's commercial strategy in support of Equilevia and the related disclosure statements in the Form S-4 described above. On November 6, 2018, the Defendants moved to dismiss the second amended complaint. The Defendants argued in their motion that the second amended complaint fails to state a claim upon which relief can be granted because the omissions and misrepresentations alleged in the complaint are immaterial as a matter of law. The court denied the Defendants' motion to dismiss on June 28, 2019. The defendants answered the second amended complaint on August 2, 2019. Discovery will now proceed. If the Plaintiff were able to prove his allegations in this matter and to establish the damages he asserts, then an adverse ruling could have a material impact on the Company.



Other than as described above, there are currently no claims or actions pending against us, the ultimate disposition of which could have a material adverse effect on our results of operations, financial condition or cash flows.

## Contingencies

From time to time, the Company may be involved in legal proceedings (other than those noted above) arising in the ordinary course of business. The Company believes there is no litigation pending that could have, individually or in the aggregate, a material adverse effect on the financial position, results of operations or cash flows.

## Settlement of Tempesta Royalty dispute

As of September 30, 2019, the Company was in negotiations with Dr. Michael Tempesta regarding disputes of royalty payments owed by Napo to Tempesta under a license agreement, dated February 8, 1990, between Tempesta and Shaman Pharmaceuticals, a predecessor-in-interest to Napo (the "1990 License"), and a modified license agreement, dated October 16, 2002, between Tempesta and Napo (the "2002 License" and together with the 1990 License, the "License Agreements") with respect to SP-303, a component of Mytesi, the Company's FDA-approved drug for the symptomatic relief of noninfectious diarrhea in adult patients with HIV/AIDS on antiretroviral therapy. The Company had ceased payment of royalties to Tempesta in October 2018.

At September 30, 2019, the Company determined that it was probable that a liability in the amount of \$640,000 would be paid to Tempesta in the settlement of the royalty dispute. Accordingly, at September 30, 2019 and pursuant to ASC 450, the Company accrued a loss contingency of \$640,000 that was charged to operating expenses in the condensed statements of operations.

In October 2019, the Company and Tempesta settled the dispute, pursuant to which Tempesta received \$50,000 in cash, an unsecured promissory note issued by the Company in the aggregate principal amount of \$550,000 and 40,000 shares of the Company's common stock in exchange for the cessation of all royalty payments by Napo to Dr. Tempesta under the License Agreements (see Note 14).

#### 7. Debt

#### **Convertible Notes**

Convertible notes at September 30, 2019 and December 31, 2018 consist of the following:

	September 3 2019	30,	December 31,		
	(unaudited	l)	2018		
June 2017 convertible debt	\$ -	_ :	\$ 740,882		
Napo convertible debt	-	_	10,553,888		
	-		11,294,770		
Less: unamortized debt discount and debt issuance costs	-	_	(55,600)		
Net convertible debt obligation	\$ -	_ :	\$ 11,239,170		
Convertible debt - non-current, net of discount	-				
Convertible debt - current, net of discount	\$ -	_ :	\$ 11,239,170		

## February 2015 Convertible Note

In February 2015, the Company issued a convertible promissory note to an accredited investor in the aggregate principal amount of \$150,000. This note was issued pursuant to the convertible note purchase agreement dated December 23, 2014. In March of 2018, the debtor agreed to accept 1,937 shares of the Company's common stock as payment for all outstanding principal and interest in the amount of \$203,408.

## June 2017 Convertible Note

On June 29, 2017, the Company issued a secured convertible promissory note to CVP in the aggregate principal amount of \$2,155,000 less an original issue discount of \$425,000 and less \$30,000 to cover the lender's legal fees for net cash proceeds of \$1,700,000 (the "June 2017 Note"). Interest on the outstanding balance will be paid 8% per annum from the purchase price date until the balance is paid in full.

The Note provides for two separate features that result in a derivative liability:

- 1. Repayment of mandatory default amount upon an event of default—upon the occurrence of any event of default, the lender may accelerate the Note resulting in the outstanding balance becoming immediately due and payable in cash; and
- 2. Automatic increase in the interest rate on and during an event of default—during an event of default, the interest rate will increase to the lesser of 17% per annum or the maximum rate permitted under applicable law.

The Company computed fair values at the date of issuance of \$15,000 and \$5,000 for the repayment and the interest rate increase feature, respectively, using the Binomial Lattice Model, which was based on the generalized binomial option pricing formula. The \$20,000 combined fair value was carved out and was included as a derivative liability on the Balance Sheet. At September 30, 2018, the derivatives were determined to have a de-minimis fair value and were written-off.

On August 2, 2018, the Company and CVP agreed to an amendment extending the maturity date to August 26, 2019, and limiting the aggregate amount that CVP is permitted to redeem on a monthly basis to \$500,000, which is the maximum aggregate redemption amount for all notes outstanding with CVP. This amendment resulted in the Company accounting for the transaction as a troubled debt restructuring, under which the carrying amount of the note payable remained unchanged but interest expense is computed using a new effective rate that equates the present value of the future cash payments specified by the new terms with the carrying amount of the note.

Between October 2018 and December 2018, the Company and CVP renegotiated the terms of the June 2017 Note agreement such that CVP agreed not to make any redemptions of the June 2017 Note until March 2019. In consideration of this standstill arrangement, the Company paid CVP a total standstill fee of \$499,403 for all four CVP Notes. The standstill fee allocated to the June 2017 Note was \$63,296, of which \$37,296 increased the principal balance and \$26,000 was paid in cash. These restructurings in whole represented four separate restructurings of the June 2017 Convertible Note agreement, resulting in two troubled debt restructurings accounted for under ASC 470-60 and two modifications accounted for under ASC 470-50. For the two modifications resulting in troubled debt restructurings, the changes were accounted for prospectively and a new effective interest rate was determined that equated the present value of the future cash payments specified by the new terms with the carrying amount of the June 2017 Note. For the two modifications that resulted in modification accounting, a new effective rate was determined at the date of modification that equated the revised cash flows to the carrying amount of the Note.

In May 2019, the Company and CVP amended the June 2017 Note agreement such that the Company made three separate exchanges of principal and related accrued interest for shares of the Company's common stock. The first two exchanges of principal and accrued interest for common stock were not considered a substantial change to the June 2017 Note and therefore resulted in modification accounting and the determination of a new effective interest rate; the third exchange on May 29, 2019 resulted in the extinguishment of the entire June 2017 Note with a corresponding extinguishment loss of \$27,176 for the three months ended June 30, 2019. At September 30, 2019 and December 31, 2018, the net carrying value of the June 2017 Note was zero and \$685,282, respectively.



#### Napo Convertible Notes

## March 2017 Convertible Notes

In March 2017, Napo entered into an exchangeable Note Purchase Agreement with two lenders for the funding of face amount of \$1,312,500 in two \$525,000 tranches of face amount \$656,250. The notes bore interest at 3% and mature on December 1, 2017. The Company assumed the notes at fair value of \$1,312,500 as part of the Napo Merger.

#### First Amendment to Note Purchase Agreement and Notes

In December 2017, Napo amended the exchangeable note purchase agreement to extend the maturity of the first tranche and second tranche of notes to February 15, 2018 and April 1, 2018, respectively, increase the principal amount by 12%, and reduce the conversion price from \$39.20 per share to \$14.00 per share. The Company also issued 35,601 shares of common stock to the lenders in connection with this amendment to partially redeem \$299,050 from the first tranche of the notes. The amended face value of the notes was \$1,170,950. This amendment resulted in the Company treating the notes as having been extinguished and replaced with new notes for accounting purposes due to meeting the 10% cash flow test. The conversion option in the notes was bifurcated and accounted for as a conversion option liability at fair value.

#### Second Amendment to Note Purchase Agreement and Notes

On February 16, 2018, Napo amended the exchangeable note purchase agreement to extend the maturity date of the Second Tranche Notes from April 1, 2018 to May 1, 2018. In addition, the Company also issued 54,049 shares of common stock to the Purchasers as repayment of the remaining \$435,950 aggregate principal amount and \$18,063 in accrued and unpaid interest thereon. On March 23, 2018, the Company paid off the remaining \$735,000 of principal and \$20,699 in interest due on the second tranche debt in cash with proceeds from the March 23, 2018 equity financing. The fair value of the conversion option liability was again revalued at March 23, 2018 using the Black-Scholes-Merton model using the following criteria: stock price of \$14.70 per share, expected life of 0.11 years, volatility of 288.16%, risk free rate of 1.69% and dividend rate of 0%, resulting in an increase of \$174,754 to the fair value of the conversion option liability and included in the change in fair value of warrants and conversion option liability in the statements of operations. The underlying debt was paid off in March of 2018 and the \$286,595 conversion option liability was written off to other income in the statements of operations.

#### **December 2016 Convertible Notes**

In December 2016, Napo entered into a note purchase agreement which provided for the sale of up to \$12,500,000 face amount of notes and issued convertible promissory notes (the Napo December 2016 Notes) in the aggregate face amount of \$2,500,000 to three lenders and received proceeds of \$2,000,000 which resulted in \$500,000 of original issue discount. In July 2017, Napo issued convertible promissory notes (the Napo July 2017 Notes) in the aggregate face amount of \$7,500,000 to four lenders and received proceeds of \$6,000,000 which resulted in \$1,500,000 of original issue discount. The Napo December 2016 Notes and the Napo July 2017 Notes mature on December 30, 2019 and bear interest at 10% with interest due each six-month period after December 30, 2016. On June 30, 2017, the accrued interest of \$125,338 was added to principal of the Napo December Notes, and the new principal balance became \$2,625,338. Interest may be paid in cash or in the stock of Jaguar per terms of the note purchase agreement. In each one year period beginning December 30, 2016, up to one-third of the principal and accrued interest on the notes may be converted into the common stock of the merged entity at a conversion price of \$64.75 per share. The Company assumed these convertible notes at fair value of \$11,161,000 as part of the Napo Merger. The \$1,035,661 difference between the fair value of the notes and the principal balance was being amortized over the twenty-nine (29) month period from July 31, 2017 to December 31, 2019. Interest expense is paid every nine months through the issuance of common stock. On March 16, 2018, \$534,775 of interest accrued through January 31, 2018 and \$169,950 of certain legal expenses were paid through the issuance of 4,081 shares of the Company's common stock. In August 2018, the Company paid \$479,808 of accrued interest through July 31, 2018 with the issuance of 4,582 shares of the Company's common stock. In January 2019, \$446,729 of accrued interest was paid through the issuance of 19,751 shares of the Company's common stock.

## Extinguishment and Exchange of the Napo Convertible Notes

In May 2019, in a restructuring of the Notes, Chicago Venture Partners ("CVP") acquired the Napo December 2016 and Napo July 2017 Notes, as well as all rights thereof, and immediately extinguished the two Notes; in their place, the Company issued to CVP a new note ("Exchange Note 1"). The collective carrying amount of the Napo December 2016 and Napo July 2017 Note immediately before the exchange was \$10,375,326, or principal of \$10,125,339 and unamortized premium of \$249,987. The new Exchange Note 1 had an opening principal balance of \$10,535,900, consisting of the \$10,125,339 principal balance of the extinguished notes plus \$410,562 in accrued but unpaid interest from the Napo December 2016 and Napo July 2017 Notes. At September 30, 2019 and December 31, 2018, the balance of the Napo December 2016 and Napo July 2017 Notes was zero and \$10,553,888, respectively.

Concurrent with the restructuring, CVP also entered into security agreements with Jaguar (the "Jaguar Security Agreement") and Napo (the "Napo Security Agreement", and together with the Jaguar Security Agreement, the "Security Agreements"), pursuant to which CVP will receive (i) a security interest in substantially all of the Company's assets as security for the Company's obligations under Exchange Note 2 and (ii) a security interest in substantially all of Napo's assets as security for Napo's obligations under Exchange Note 1 and Exchange Note 2. Notwithstanding the foregoing, (a) the amount owing under Exchange Note 2 will not be considered part of the obligations secured by the Napo Security Agreement until such time as Jaguar receives permission from a third party and (b) the security interest granted under the Jaguar Security Agreement will be automatically terminated and released upon Jaguar's receipt of a waiver from such third party.

#### **Notes Payable**

Notes payable at September 30, 2019 and December 31, 2018 consist of the following:

	September 30, 2019 (unaudited)	December 31, 2018
December 2017 note payable	\$ —	\$ 1,673,237
February 2018 note payable	—	2,359,750
March 2018 note payable	_	1,147,870
2019 Exchange Note 1	4,381,535	
2019 Exchange Note 2	2,296,926	
	6,678,461	5,180,857
Less: unamortized discount and debt issuance costs	_	(335,282)
Note payable, net	\$ 6,678,461	\$ 4,845,575
Notes payable - non-current, net	\$ 6,678,461	\$ —
Notes payable - current, net	\$ —	\$ 4,845,575

#### December 2017 Note

On December 8, 2017, the Company entered into a securities purchase agreement with CVP pursuant to which the Company issued a promissory note (the "December 2017 Note") in the aggregate principal amount of \$1,587,500 for an aggregate purchase price of \$1,100,000. The December 2017 Note carries an original issue discount of \$462,500, and the initial principal balance also includes \$25,000 to cover CVP's transaction expenses. The December 2017 Note bears interest at the rate of 8% per annum and matures on August 26, 2019.

On August 2, 2018, the Company and CVP amended the December 2017 Note agreement, extending the maturity date from September 8, 2018 to August 26, 2019, and limiting the aggregate amount that CVP is permitted to redeem on a monthly basis to \$500,000, which amount is the maximum aggregate amount for the CVP Notes collectively. This amendment resulted in the Company accounting for the transaction as a troubled debt restructuring, under which the carrying amount of the note payable remained unchanged but interest expense is computed using a new effective rate that equates the present value of the future cash payments specified by the new terms with the carrying

amount of the note. The principal balance of the December 2017 Note is included in notes payable in the current liabilities section of the condensed consolidated balance sheet.

Between October 2018 and December 2018, the Company and CVP renegotiated the terms of the December 2017 Note agreement such that CVP agreed not to make any redemptions of the December 2017 Note until March 2019. In consideration of this standstill arrangement, the Company paid CVP a total standstill fee of \$499,403 for all four CVP Notes. The standstill fee allocated to the December 2017 Note was \$141,737, of which \$85,737 increased the principal balance and \$56,000 was paid in cash. These modifications in whole represented four separate restructurings of the December 2017 Note agreement, resulting in two troubled debt restructurings accounted for under ASC 470-60 and two modifications accounted for under ASC 470-50. For the two restructurings resulting in troubled debt restructurings, the changes were accounted for prospectively and a new effective interest rate was determined that equated the present value of the future cash payments specified by the new terms with the carrying amount of the December 2017 Note. For the two modifications that resulted in modification accounting, a new effective rate was determined at the date of modification that equated the revised cash flows to the carrying amount of the December 2017 Note.

In March 2019, the Company and CVP amended the December 2017 Note agreement such that the Company prepaid principal and accrued interest of \$811,065 and \$178,755, respectively, in 57,857 shares of the Company's common stock. The exchange of debt for common stock was considered a substantial change to the December 2017 Note and therefore the exchange resulted in extinguishment accounting and a corresponding extinguishment loss of \$243,419.

In April 2019, the Company and CVP amended the December 2017 Note agreement such that the Company made two separate exchanges of principal and related accrued interest for shares of the Company's common stock. The first exchange resulted in changes to cash flows that were considered substantial, resulting in extinguishment accounting with an extinguishment loss of \$100,148; the second exchange on April 17, 2019 resulted in the extinguishment of the entire December 2017 Note with a corresponding extinguishment loss of \$19,494. At September 30, 2019 and December 31, 2018, the net carrying value of the December 2017 Note was zero and \$1,548,829, respectively.

#### February 2018 Note

On February 26, 2018, the Company entered into a securities purchase agreement with CVP, pursuant to which the Company issued to CVP a promissory note in the aggregate principal amount of \$2,240,909 for an aggregate purchase price of \$1,560,000 (the "February 2018 Note"). The February 2018 Note carries an original issue discount of \$655,909, and the initial principal balance also includes \$25,000 to cover CVP's transaction expenses. The February 2018 Note bears interest at the rate of 8% per annum and matures on August 26, 2019.

Between October 2018 and December 2018, the Company and CVP renegotiated the terms of the February 2018 Note agreement such that CVP agreed not to make any redemptions of the February 2018 Note until March 2019. In consideration of this standstill arrangement, the Company paid CVP a total standstill fee of \$499,403 for all four CVP Notes. The standstill fee allocated to the February 2018 Note was \$198,841, of which \$118,841 increased the principal balance and \$80,000 was paid in cash. These modifications in whole represented four separate restructurings of the February 2018 Note agreement, resulting in a debt extinguishment accounted for under ASC 470-50, two troubled debt restructurings accounted for under ASC 470-60 and a debt modification accounted for under ASC 470-50. For the debt extinguishment, the Company recorded an extinguishment loss of \$102,296. For the two troubled debt restructurings, the changes were accounted for prospectively and a new effective interest rate was determined that equated the present value of the future cash payments specified by the new terms with the carrying amount of the February 2018 Note. For the modification that resulted in modification accounting, a new effective rate was determined at the date of modification that equated the revised cash flows to the carrying amount of the February 2018 Note.

In March 2019, the Company and CVP amended the February 2018 Note agreement such that the Company prepaid principal and accrued interest of \$2,044,627 and \$203,866, respectively, in 114,802 shares of the Company's common stock. The exchange of debt for common stock was considered a substantial change to the February 2018 Note and therefore the exchange resulted in extinguishment accounting and a corresponding extinguishment loss of \$487,865.

In April 2019, the Company and CVP amended the February 2018 Note agreement such that the Company made a single exchange of principal and related accrued interest for 20,345 shares of the Company's common stock. The first exchange on April 16, 2019 resulted in the extinguishment of the entire February 2018 Note with a corresponding extinguishment loss of \$37,740. At September 30, 2019 and December 31, 2018, the net carrying value of the February 2018 Note was zero and \$2,290,865, respectively.

### March 2018 Note

On March 21, 2018, the Company entered into a securities purchase agreement with CVP, pursuant to which the Company issued to CVP a promissory note in the aggregate principal amount of \$1,090,341 for an aggregate purchase price of \$750,000 (the "March 2018 Note" and together with the June 2017 Note, the December 2017 Note and the February 2018 Note, the "CVP Notes"). The March 2018 Note carries an original issue discount of \$315,341, and the initial principal balance also includes \$25,000 to cover CVP's transaction expenses. The March 2018 Note bears interest at the rate of 8% per annum and matures on September 21, 2019.

Between October 2018 and December 2018, the Company and CVP renegotiated the terms of the March 2018 Note agreement such that CVP agreed not to make any redemptions of the March 2018 Note until March 2019. In consideration of this standstill arrangement, the Company paid CVP a total standstill fee of \$499,403 for all four CVP Notes. The standstill fee allocated to the March 2018 Note was \$95,529, of which \$57,529 increased the principal balance and \$38,000 was paid in cash. These modifications in whole represented four separate restructurings of the March 2018 Note agreement, resulting in a debt extinguishment accounted for under ASC 470-50, two troubled debt restructurings accounted for under ASC 470-60, and a debt modification accounted for under ASC 470-50. For the debt extinguishment, the Company recorded an extinguishment loss of \$223,824. For the two troubled debt restructurings, the changes were accounted for prospectively and a new effective interest rate was determined that equated the present value of the future cash payments specified by the new terms with the carrying amount of the March 2018 Note. For the modification that resulted in modification accounting, a new effective rate was determined at the date of modification that equated the revised cash flows to the carrying amount of the March 2018 Note.

Between January 2019 and March 2019, the Company and CVP amended the March 2018 Note agreement such that the Company prepaid principal and accrued interest of \$1,050,114 and \$85,681, respectively, in 95,407 shares of the Company's common stock. These exchanges in whole represented four separate prepayments of principal and accrued interest, resulting in three debt extinguishments and one debt modification accounted. For the debt extinguishments, the Company recorded an aggregate extinguishment loss of \$1,210,676. For the modification, a new effective rate was determined at the date of modification that equated the revised cash flows to the carrying amount of the March 2018 Note. The March 2018 Note was fully extinguished in March 2019. At September 30, 2019 and December 31, 2018, the net carrying value of the March 2018 Note was zero and \$1,005,880, respectively.

#### 2019 Bridge Notes

Between March 18, 2019 and June 26, 2019 the Company entered into Promissory Note Purchase Agreements with certain accredited investors under which the Company issued (i) fourteen promissory notes with a principal balance of \$3,550,000 and warrant coverage at 125% of principal, and (ii) seven promissory notes with a principal balance of \$1,500,000 and warrant coverage at 75% of principal. Collectively, cash proceeds from the twenty-one promissory notes (collectively, the "Bridge Notes") was \$5,050,000. The Bridge Notes were not convertible and bore interest at 12% with a maturity date of July 18, 2019, at which date all principal and accrued interest were due. The exercise price of the warrants was either (i) the price the Company issued common shares in its next public offering subject to a registration statement or (ii) if no such offering is consummated by the four-month maturity date of the Notes, then the exercise price would be equal to the closing price of the Company's common stock on the Notes four-month maturity date. The warrants for all twenty-one Bridge Notes had an issuance date fair value of \$5,005,739 (see Note 3).

Between May and early July 2019, the Company and the Bridge Note investors extended the maturity date of the Bridge Notes from July 18, 2019 to July 31, 2019, or an addition of thirteen days; this amendment to the terms of the Promissory Note Purchase Agreements did not represent a troubled debt restructuring per Subtopic 470-60, nor was it considered a substantial change requiring extinguishment accounting per Subtopic 470-50. Rather, it represented a

modification under Subtopic 470-50 requiring the determination of a new effective interest rate at the modification date that equated the revised cash flows to the carrying amounts of the Bridge Notes.

On July 23, 2019, the Company paid-off all twenty-one Bridge Notes prior to maturity. The Company paid cash of \$5,192,923, or \$5,050,000 of principal and \$142,923 of accrued interest. The extinguishment of the Bridge Notes resulted in an extinguishment loss of \$335,753.

#### 2019 Exchange Notes

In May 2019, the Company and CVP entered into an Exchange Agreement whereby CVP purchased the two outstanding Napo convertible notes and all rights thereof from the current debt holders. Subject to the terms of the Exchange Agreement, CVP and the Company agreed to exchange the two Napo convertible notes for a single CVP Note ("CVP Exchange Note 1"). At the Exchange date, the principal balance of the two Napo convertible notes was \$10,125,339, or \$10,535,900 inclusive of accrued but unpaid interest of \$410,562. The beginning principal balance of CVP Exchange Note 1 was \$10,535,900, or equal to the principal balance of the two Napo convertible notes and accrued interest thereon. The maturity date of CVP Exchange Note 1 was December 31, 2020, with an interest rate of 10%. Per the terms of the Exchange Agreement, CVP agreed to extend the maturity date of CVP Exchange Note 1 from December 31, 2019 (the same maturity date carried over from the two Napo convertible notes ) to December 31, 2020; in consideration of this extension, the Company issued CVP Exchange Note 2 with a principal balance of \$2,296,926. The maturity date of CVP Exchange Note 2 is December 31, 2020, with an interest rate of 10%. The exchange of the two outstanding Napo convertible notes for Exchange Note 2 resulted in the recording of a \$2,046,939 loss on extinguishment of debt for the three months ended June 30, 2019.

Between May 2019 and June 2019, the Company and CVP entered into note exchange agreements pursuant to which the Company, in lieu of making a cash payment to CVP on Exchange Note 1, made a prepayment of principal and related accrued interest of \$5,144,175 by issuing 817,863 shares of the Company's common stock to CVP. These exchanges of principal and related accrued interest resulted in a debt extinguishment accounted for under ASC 470-50, with the accompanying recording of a loss on extinguishment of \$439,978.

In July 2019, the Company and CVP entered into note exchange agreements pursuant to which the Company, in lieu of making a cash payment to CVP on Exchange Note 1, made a prepayment of principal and related accrued interest of \$1,100,000 by issuing 301,577 shares of the Company's common stock to CVP. These exchanges of principal and related accrued interest resulted in a debt extinguishment accounted for under ASC 470-50, with the accompanying recording of a loss on extinguishment of \$11,202.

At September 30, 2019, the net carrying value of Exchange Note 1 and Exchange Note 2 was \$4,381,535 and \$2,296,926, respectively, or an aggregate principal balance of \$6,678,461.

#### 8. Warrants

The following table summarizes information about warrants outstanding and exercisable into shares of the Company's common stock as of September 30, 2019 and 2018:

	Nine Months Ended September 30, 2019	Nine Months Ended September 30, 2018
	(unaudited)	
Warrants outstanding, beginning balance	34,682	4,590
Issuances	19,387,761	12,713
Expirations and cancellations	(551)	(722)
Warrants outstanding, ending balance	19,421,892	16,581

For the nine months ended September 30, 2019, the Company issued 19,387,761 warrants, as follows:

### March 2019 Ladenburg Warrants

In March 2019, in consideration of services provided in the Company's March 2019 public offering of 19,019 common shares, the Company issued to Ladenburg Thalmann & Co. warrants to purchase an aggregate of 761 shares of common stock at an exercise price of \$17.50 per common share. The warrants were valued at \$13,028 using the Black-Scholes option pricing model as follows: exercise price of \$17.50 per share, stock price of \$18.90 per share, expected life of five years, volatility of 146%, and a risk-free rate of 2.21%. The warrants were classified in stockholders' equity.

## March 2019 LOC Warrant

In March 2019, in consideration of a letter of credit cancellation related to the Company's office lease, the Company issued a warrant to purchase warrant shares equal to a fixed principal amount divided by a variable exercise price (see Note 3). The warrants were initially classified as liabilities pursuant to ASC 480-10 due to their debt-like nature. On July 23, 2019, upon the exercise price of the warrants becoming fixed, the warrants became exercisable into 45,750 shares of the Company's common stock and were reclassified to additional paid-in-capital with a fair value of \$71,079 (see Note 3).

#### 2019 Bridge Note Warrants

Between March 18, 2019 and June 26, 2019, concurrent to the Company entering into Promissory Notes of \$5,050,000, the Company issued twenty-one warrants to purchase warrant shares equal to a fixed principal amount divided by a variable exercise price (see Note 3). The warrants for all twenty-one Bridge Notes were initially liability classified pursuant to ASC 480-10 due to their debt-like nature. On July 23, 2019, upon the exercise price of the warrants becoming fixed, the warrants became exercisable into 2,781,250 shares of the Company's common stock and were reclassified to additional paid-in-capital with a fair value of \$4,259,327 (see Note 3).

#### Series 1 Warrants

In July 2019, the Company entered into an underwriting agreement (see Note 1), relating to a public offering, which was comprised of (1) 2,886,500 Class A Units, priced at \$2.00 per unit, with each unit consisting of (i) one share of the Company's voting common stock, (ii) one Series 1 warrant to purchase one share of Common Stock, and (iii) one Series 2 warrant to purchase one share of Common Stock, and (2) 10,787 Class B Units, priced at a price of \$1,000 per unit, with each unit consisting of (i) one share of Series B convertible preferred stock, convertible into 500 shares of Common Stock, (ii) 500 Series 1 Warrants and (iii) 500 Series 2 Warrants.

The Series 1 Warrants have an exercise price of \$2.00 and expire on the earlier of (a) 5 years from the date of issuance and (b) 30 calendar days following the public announcement of Positive Interim Results related to the diarrhea results from the HALT-D investigator initiated trial, if and only if certain trading benchmarks are achieved during such 30 calendar day period.

In the offering, the Company sold (i) 2,886,500 Class A Units, which included Series 1 warrants to purchase 2,886,500 shares of the Company's common stock and (ii) 10,787 Class B Units, which included Series 1 warrants to purchase 5,393,500 shares of the Company's common stock. In total, 8,280,000 Series 1 warrants were issued, with an initial valuation of \$5,304,989 computed using the Black-Scholes-Merton pricing model using a stock price of \$1.73, a strike price of \$2.00, an expected term of 5.0 years, volatility of 144.76% and a risk-free discount rate of 1.83%. Upon issuance, the Series 1 warrants were classified in additional paid-in-capital.

## Modification of the Series 1 Warrants

In September 2019, the Company reduced the exercise price all 8,280,000 Series 1 Warrants from \$2.00 to \$1.40. The Company determined the impact of this modification to be an increase in the fair value of the warrants of

\$252,106. Because the modification applied to the entire class of Series 1 Warrant holders, the increase in fair value represented a deemed dividend to the entire class of Series 1 Warrant holders. The modification did not result in the reclassification of the equity-classified Series 1 warrants from additional paid-in-capital to liability classification.

#### Series 2 Warrants

The Series 2 Warrants have an exercise price of \$2.00 and expire on the first date on the earlier of (a) 5 years from the date of issuance and (b) 30 calendar days following the public announcement by the Company that a pivotal phase 3 clinical trial using crofelemer (Mytesi®, or the same or similar product with a different name) for the treatment of cancer therapy-related diarrhea in humans has met its primary endpoint in accordance with the protocol, if and only if certain trading benchmarks are achieved during such 30 calendar day period. In addition, each Series 2 Warrant has an embedded call option that allows the Company to redeem any unexercised warrants if certain contingencies are met.

In the offering, the Company sold (i) 2,886,500 Class A Units, which included Series 2 warrants to purchase 2,886,500 shares of the Company's common stock and (ii) 10,787 Class B Units, which included Series 1 warrants to purchase 5,393,500 shares of the Company's common stock. In total, 8,280,000 Series 2 warrants were issued, with an initial valuation of \$5,304,989 computed using the Black-Scholes-Merton pricing model using a stock price of \$1.73, a strike price of \$2.00, an expected term of 5.0 years, volatility of 144.76% and a risk-free discount rate of 1.83%. Upon issuance, the Series 2 Warrants were classified in additional paid-in-capital.

For the nine months ended September 30, 2018, the Company issued 12,713 warrants, as follows:

#### August 2018 LOC Warrant

In August 2018, in consideration of the Letter of Credit associated with the Company's office lease, the Company issued to an existing shareholder a five-year warrant to purchase 9,580 shares of the Company's common stock. The Warrant is exercisable on or after March 28, 2019 at an exercise price of \$49.08. The warrants had an issuance-date fair value of \$493,688 and classified in additional paid-in-capital with an offset to deferred rent.

#### September 2018 L2 Warrants

Concurrent to entering into the Note Purchase Agreement with L2 Capital in September 2018, the Company issued to L2 Capital a 5-year warrant to purchase 2,649 shares of the Company's common stock. The warrants had an issuance-date fair value of \$100,330 at an exercise price of \$63.00 per share. The warrants were recorded in additional paid-in-capital and treated as a discount to the L2 Capital Promissory note balance.

#### September 2018 Conte Warrants

Concurrent to entering into the Note Purchase Agreement with an accredited investor in September 2018, the Company issued to the accredited investor a 5-year warrant to purchase 484 shares of the Company's common stock. The warrants had an issuance-date fair value of \$17,818 at an exercise price of \$86.10 per share. The warrants were recorded in additional paid-in-capital and treated as a discount to the Conte Promissory note balance.

## 9. Convertible Preferred Stock

#### Series A Convertible Preferred Stock

In March 2018, the Company entered into a stock purchase agreement with Sagard Capital Partners, L.P. pursuant to which the Company, in a private placement, agreed to issue and sell to Sagard 5,524,926 shares of the Company's Series A convertible participating preferred stock, \$0.0001 par value per share, for gross proceeds of \$9,199,002, or \$9,000,002 net of issuance costs. The preferred stock is convertible into approximately 473,565 shares of common stock at the option of the holder at an effective conversion price of \$19.425 per share, provided that, at any time prior to the time the Company obtains stockholder approval, as required pursuant to Nasdaq Rule 5635(b) any conversion of Preferred Stock by a holder into shares of the common stock would be prohibited if, as a result of such

conversion, the holder, together with such holder's attribution parties, would beneficially own more than 19.99% of the total number of shares of the common stock issued and outstanding after giving effect to such conversion. Subject to certain limited exceptions, the shares of Preferred Stock cannot be offered, pledged or sold by Sagard for one year from the date of issuance. The conversion price is subject to certain adjustments in the event of any stock dividend, stock split, reverse stock split, combination or other similar recapitalization.

Holders of the Series A shares are entitled to participate equally and ratably with the holders of common stock shares in all dividends paid and distributions made to the holders of the common stock as if, immediately prior to each record date of the common stock, the shares of Series A then outstanding were converted into shares of common stock.

In the event of any voluntary or involuntary liquidation, dissolution or winding up of the Company or deemed liquidation event, the holders of Series A shares then outstanding shall be entitled to be paid in cash out of the assets of the Company before any payment shall be made to the holders of common stock or shares of any series or class of preferred or other capital stock then outstanding that by its terms is junior to the Series A in respect of the preferences as to distributions and payments upon such liquidation event by reason of their ownership, an amount per share of Series A equal to one times the Series A original issue price.

The redemption and liquidation value of the Series A preferred stock is \$12,738,822 and \$9,199,002, respectively, as of September 30, 2019 and December 31, 2018. If a Redemption Event occurs as of the Measurement Date (the later of April 30, 2021 and the date on which the Company files its Form 10-Q for the three months ending March 31, 2021, but in no event later than September 30, 2021), the holders of at least a majority of the shares of Series A preferred stock then outstanding may require the Company to redeem all Series A shares at a per share purchase price equal to \$2.3057; any one of the following conditions can result in a Redemption Event that is not solely within the Company's control: Revenues attributable to the Mytesi product for the six-month period ended March 31, 2021 are less than \$22.0 million or the daily volume weighted average price ("VWAP") of the Company's common stock on Nasdaq for the 30 days prior to a Measurement Date is less than \$105.00.

On the March 23, 2018 issuance date, the effective conversion price per share was less than the fair value of the underlying common stock. As a result, the Company determined that there was a Beneficial Conversion Feature ("BCF") of approximately \$995,000. Because the Company's Series A Preferred Stock does not have a stated conversion date and was immediately convertible at the issuance date, the Company recorded a deemed dividend charge of \$995,000 for the accretion of the discount on the Series A Preferred Stock. The deemed dividend was a non-cash transaction and is reflected below net loss to arrive at net loss available to common stockholders on the Company's condensed consolidated statements of operations for the nine months ended September 30, 2018.

In March 2019, the Company and Sagard Capital Partners, L.P. amended certain terms of the agreement, such that the effective conversion price was adjusted to \$19.425 per share.

The preferred stock has been classified outside of stockholders' equity/(deficit) in accordance with authoritative guidance for the classification and measurement of potentially redeemable securities.

#### Series B Convertible Preferred Stock

In July 2019, the Company entered into an underwriting agreement relating to the public offering comprised of (1) 2,886,500 Class A Units, priced at a public offering price of \$2.00 per unit, with each unit consisting of (i) one share of the Company's voting common stock, (ii) one Series 1 warrant to purchase one share of Common Stock and (2) 10,787 Class B Units, priced at a public offering price of \$1,000 per unit, with each Class B unit consisting of (i) one share of Series B convertible preferred stock with a stated value of \$1,000 and convertible into 500 shares of Common Stock, (ii) 500 Series 1 Warrants and (iii) 500 Series 2 Warrants, at a public offering price of \$1,000 per Class B Unit.

The Company sold 10,787 Class B Units, comprised of 10,787 shares of Series B convertible preferred stock, Series 1 warrants to purchase 5,393,500 shares of common stock and Series 2 warrants to purchase 5,393,500 shares of common stock. The total gross proceeds to the Company from the offering of the Class B Units was \$10,787,000, of

which \$3,875,778 was allocated to the Series B convertible preferred stock, \$3,455,611 to the Series 1 Warrants and \$3,455,611 to the Series 2 Warrants. Issuance costs of \$1,635,184 were allocated to the Class B Units.

Holders of the Series B shares are entitled to participate equally and ratably with the holders of common stock shares in all dividends paid and distributions made to the holders of the common stock as if, immediately prior to each record date of the common stock, the shares of Series A then outstanding were converted into shares of common stock. With certain exceptions, the shares of Series B Preferred Stock have no voting rights. However, as long as any shares of Series B Preferred Stock remain outstanding, the Company shall not, without the affirmative vote of holders of a majority of the then outstanding shares of Series B Preferred Stock, (a) alter or change adversely the powers, preferences or rights given to the Series B Preferred Stock or alter or amend the Series B Certificate of Designation or (b) enter into any agreement with respect to any of the foregoing. Each share of Series B Preferred Stock is convertible at any time at the holder's option into 500 shares of Common Stock, which conversion ratio will be subject to adjustment for stock splits, stock dividends, distributions, subdivisions and combinations and other similar transactions.

On the July 23, 2019 issuance date, the effective conversion price per share was less than the fair value of the underlying common stock. As a result, the Company determined that there was a Beneficial Conversion Feature of \$3,875,778. Because the Company's Series B Preferred Stock does not have a stated conversion date and was immediately convertible at the issuance date, the Company recorded a deemed dividend charge of \$3,875,778 for the accretion of the discount on the Series B Preferred Stock. The deemed dividend was a non-cash transaction and is reflected below net loss to arrive at net loss available to common stockholders on the Company's condensed consolidated statements of operations for the three and nine months ended September 30, 2019.

During July and August 2019, certain investors converted 8,816 Series B preferred shares into 4,408,000 shares of the Company's common shares at the stated conversion ratio. As of September 30, 2019, there remained 1,971 Series B preferred shares outstanding.

The preferred stock has been classified in stockholders' equity/(deficit) in accordance with authoritative guidance.

#### 10. Stockholders' Equity

### **Common Stock**

As of September 30, 2019, and December 31, 2018, the Company had reserved shares of common stock for issuance as follows:

	September 30, 2019	December 31, 2018
	(unaudited)	
Options issued and outstanding	3,821,690	42,979
Inducement options issued and outstanding		2,985
Options available for grant under stock option plans	554,016	2,327
RSU awards issued and outstanding	5,613	5,613
Warrants issued and outstanding	19,421,892	34,682
Convertible notes		10,849
Convertible preferred stock-Series A	473,565	47,357
Convertible preferred stock-Series B	985,500	
Total	25,262,276	146,792

## Transactions with Oasis Capital

On January 7, 2019, Jaguar entered into a common stock purchase agreement with Oasis Capital, relating to an offering of an aggregate of up to 76,190 shares of common stock via an equity line of credit. Under the terms of the

purchase agreement, the Company has the right to "put," or sell, up to 76,190 shares of common stock to Oasis Capital for an amount equal to the product of (i) the number of shares set forth on the applicable put notice (minus the deposit and clearing fees associated with such purchase) and (ii) a fixed price of \$52.50 per share or such other price agreed upon between the Company and Oasis Capital. Jaguar had the option to increase the equity line of credit by an additional 114,286 shares of common stock by notifying Oasis Capital at any time after the effective date of the purchase agreement. In March 2019, Jaguar exercised this option. As of March 31, 2019, the Company had sold all of the 76,190 shares of common stock of the equity line and all 114,286 shares of common stock from the option to Oasis Capital, or a total of 190,476 shares.

In March 2019, Jaguar entered into a securities purchase agreement with Oasis Capital pursuant to which Jaguar agreed to issue and sell, in a registered public offering by Jaguar directly to Oasis, an aggregate of 19,019 shares of common stock at an offering price of \$14.00 for gross proceeds of approximately \$266,266.

On April 1, 2019, the Company entered into another common stock purchase agreement (the "April CSPA") with Oasis Capital relating to an offering (the "April Equity Line Offering") of an aggregate of up to 285,714 shares (the "April Purchase Shares") of the Company's common stock, all of which are being offered in a primary offering consisting of an equity line of credit. Under the terms of the April CSPA, the Company has the right to "put," or sell, the April Purchase Shares to Oasis Capital for an amount equal to the product of (i) the number of April Purchase Shares set forth in the applicable put notice (minus the deposit and clearing fees associated with such purchase) and (ii) a fixed price of \$19.60 per share or such other price agreed upon between the Company and Oasis Capital. The Company had the option to increase the equity line of credit by an additional 285,714 shares of Common Stock by notifying Oasis Capital at any time after the effective date of the April CSPA.

Effective June 14, 2019, we halted all future offers and sales of our voting common stock, par value \$0.0001 per share under the April CSPA and terminated the April CSPA. Between April 1, 2019, the date of the April CSPA, and June 14, 2019, we sold an aggregate of 4,843 shares of Common Stock pursuant to the CSPA for aggregate gross proceeds of approximately \$100,000.

#### Issuance of Class A Units in July 2019 Underwritten Public Offering

In July 2019, the Company entered into an underwriting agreement relating to the public offering comprised of (1) 2,886,500 Class A Units, priced at a public offering price of \$2.00 per unit, with each unit consisting of (i) one share of the Company's voting common stock, (ii) one Series 1 warrant to purchase one share of Common Stock and (2) 10,787 Class B Units, priced at a public offering price of \$1,000 per unit, with each Class B unit consisting of (i) one share of Series B convertible preferred stock with a stated value of \$1,000 and convertible into 500 shares of Common Stock, (ii) 500 Series 1 Warrants and (iii) 500 Series 2 Warrants, at a public offering price of \$1,000 per Class B Unit.

The Company sold 2,886,500 Class A Units, comprised of 2,886,500 shares of voting common stock, Series 1 warrants to purchase 5,393,500 shares of common stock and Series 2 warrants to purchase 5,393,500 shares of common stock. The total gross proceeds to the Company from the offering of the Class A Units was \$5,773,000, of which \$2,074,244 was allocated to the voting common stock, \$1,849,378 to the Series 1 Warrants and \$1,849,378 to the Series 2 Warrants. Issuance costs of \$875,184 were allocated to the Class A Units.

#### **11. Stock Incentive Plans**

#### 2013 Equity Incentive Plan

Effective November 1, 2013, the Company's board of directors and sole stockholder adopted the Jaguar Health, Inc. 2013 Equity Incentive Plan (the "2013 Plan"). The 2013 Plan allows the Company's board of directors to grant stock options, restricted stock awards and restricted stock unit awards to employees, officers, directors and consultants of the Company. Following the effective date of the IPO and after effectiveness of any grants under the 2013 Plan that were contingent on the IPO, no additional stock awards will be granted under the 2013 Plan. Outstanding grants continue to be exercisable; however, any unissued shares under the plan and any forfeitures of outstanding options do not rollover to the 2014 Stock Incentive Plan. As of September 30, 2019, there were 368 options outstanding.

## 2014 Stock Incentive Plan

In May 2015, the Company adopted the Jaguar Health, Inc. 2014 Stock Incentive Plan ("2014 Plan"). The 2014 Plan provides for the grant of options, restricted stock and restricted stock units to eligible employees, directors and consultants to purchase the Company's common stock. The 2014 Plan provides for automatic share increases on the first day of each fiscal year in the amount of 2% of the outstanding number of shares of the Company's common stock on the last day of the preceding calendar year. The final 2% increase under the terms of the 2014 Plan was on January 1, 2019, at which time 7,797 additional available shares were added to the 2014 Plan. In February 2019, the Company shareholders approved a 5-year extension of the annual 2% automatic increase from January 1, 2020 through January 1, 2024. The 2014 Plan replaced the 2013 Plan except that all outstanding options under the 2013 Plan remain outstanding until exercised, cancelled or expiration.

In July 2019, the Company adopted an amendment to the 2014 Plan to increase the number of shares of the Company's common stock authorized for issuance such that the aggregate authorized but unissued shares available for issuance would be equal to 12.5% of the issued and outstanding shares of Common Stock on a fully diluted basis including for purposes of this calculation as if such shares available under the 2014 Plan were included in the denominator (and assuming conversion or exercise, as applicable, of all outstanding convertible securities, including but not limited to conversion of the Company's Series A Convertible Participating Preferred Stock and Series B Convertible Preferred Stock into shares of Common Stock, all issued and outstanding warrants, RSUs and stock options (whether issued under or outside the 2014 Plan and the like)), calculated as of the earlier of (i) the day immediately after the consummation of the Company's next underwritten public equity offering with gross proceeds of \$5 million or more or (ii) July 31, 2019 (collectively, the "Calculation Date"). The Calculation Date occurred on July 24, 2019 and the total number of shares of Common Stock approved for issuance under the 2014 Plan increased 4,330,400 shares.

As of September 30, 2019, there were 3,821,690 options outstanding and 554,016 options available for grant.

### Stock Options and Restricted Stock Units ("RSUs")

The following table summarizes incentive plan activity for the nine months ended September 30, 2019 (unaudited):

	Shares Available for Grant	Stock Options Outstanding	RSUs Outstanding	Sto	Veighted Average ock Option ercise Price	Weighted Average Remaining Contractual Life (Years)	Int	regate rinsic lue*
Outstanding at December 31, 2018	2,327	42,979	5,613	\$	406.36	9.24	\$	
Additional shares authorized	4,330,400		—		—	—		
Options granted	(4,306,832)	4,306,832	—		1.71	—		
Options cancelled	528,121	(528,121)	—		4.45	—		
Outstanding at September 30, 2019	554,016	3,821,690	5,613	\$	5.72	9.81	\$	
Exercisable at September 30, 2019		503,943		\$	24.61	9.76	\$	_
Vested and expected to vest at September 30, 2019		3,197,953		\$	6.82	9.81	\$	

\* Fair market value of JAGX common stock on September 30, 2019 was \$1.31 per share.

The intrinsic value is calculated as the difference between the exercise price of the underlying options and the fair market value of the Company's common stock for options that were in-the-money.

No options were exercised in the nine months ended September 30, 2019 and 2018.

The weighted average grant date fair value of stock options granted was \$1.57 and \$128.80 per share during the nine months ended September 30, 2019 and 2018, respectively.

The number of options that vested in the nine months ended September 30, 2019 and 2018 was 496,467 and 6,053, respectively. The grant date weighted average fair value of options that vested in the nine months ended September 30, 2019 and 2018 was \$2,668,737 and \$475,123, respectively.

The Company granted 2,993 inducement options in fiscal year 2018 to new employees. The weighted average grantdate fair value of the options was \$93.80 per share.

## Stock-Based Compensation

The following table summarizes stock-based compensation expense related to stock options, inducement stock options and RSUs for the three and nine months ended September 30, 2019 and 2018, and are included in the condensed consolidated statements of operations as follows:

	Three Months Ended September 30,			Nine Months Ended September 30,		
	2019	2018		2019		2018
	 (unau	dited)		(unaı	ıdite	d)
Research and development expense	\$ 332,636	\$ 175,772	\$	548,524	\$	400,521
Sales and marketing expense	41,122	39,210		87,215		59,762
General and administrative expense	736,351	465,112		1,347,246		956,508
Total	\$ 1,110,109	\$ 680,094	\$	1,982,985	\$ 3	1,416,791

As of September 30, 2019, the Company had \$5,555,383 of unrecognized stock-based compensation expense for options, inducement options and restricted stock units outstanding, which is expected to be recognized over a weighted-average period of 2.31 years.

The estimated grant-date fair value of stock option grants for the nine months ended September 30, 2019 and 2018 was calculated using the Black-Scholes - Merton option-pricing model using the following weighted-average assumptions:

	Nine Months I September	
	2019	2018
	(unaudited	1)
Weighted-average volatility	142.9 - 145.9 %	95.6 - 95.9 %
Weighted-average expected term (years)	5.6 - 5.8	5.8
Risk-free interest rate	1.5 - 1.9 %	2.8 - 3.1 %
Expected dividend yield		—

## 401(k) Plan

The Company sponsors a 401(k) defined contribution plan covering all employees. There were no employer contributions to the plan from plan inception through September 30, 2019.

## 12. Net Loss Per Share

The following table presents the calculation of basic and diluted net loss per share of common stock for the periods indicated:

	Three Months Ended September 30,			nths Ended nber 30,	
	2019	2018	2019	2018	
	(unau	dited)	(una	udited)	
Net loss attributable to common shareholders (basic and					
diluted)	\$ (11,682,949)	\$ (6,138,352)	\$ (36,707,937)	\$ (20,487,172)	
Shares used to compute net loss per common share, basic					
and diluted	5,841,790	162,506	2,746,523	143,012	
Net loss per share attributable to common shareholders,					
basic and diluted	\$ (2.00)	\$ (37.77)	\$ (13.37)	\$ (143.25)	

Basic net loss per share is calculated by dividing net loss by the weighted-average number of common shares outstanding during the period. Diluted net loss per share is computed by dividing net loss by the weighted-average number of common shares and common share equivalents outstanding for the period. Common stock equivalents are only included when their effect is dilutive. The Company's potentially dilutive securities which include stock options, convertible preferred stock and common stock warrants have been excluded from the computation of diluted net loss per share as they would be anti-dilutive. For all periods presented, there is no difference in the number of shares used to compute basic and diluted shares outstanding due to the Company's net loss position.

The following outstanding common stock equivalents have been excluded from diluted net loss per common share for the nine months ended September 30, 2019 and 2018 because their inclusion would be anti-dilutive.

	September 30, 2019	September 30, 2018
	(unau	dited)
Options issued and outstanding	3,821,690	42,979
Inducement options issued and outstanding		2,994
Options available for grant under stock options plans	554,016	3,402
Restricted stock unit awards issued and outstanding	5,613	5,613
Warrants issued and outstanding	19,421,892	16,582
Convertible notes		23,469
Series A convertible preferred stock	473,565	
Series B convertible preferred stock	985,500	—
Total	25,262,276	95,039

## 13. Segment Information

Prior to the merger with Napo, the Company managed its operations as a single segment for the purposes of assessing performance and making operating decisions. The Company reorganized its segments to reflect the change in the organizational structure resulting from the merger with Napo. Post-merger, the Company manages its operations through two reportable segments—human health and animal health. The human health segment is focused on developing and commercializing human products and the ongoing commercialization of Mytesi™, which is approved by the U.S. FDA for the symptomatic relief of noninfectious diarrhea in adults with HIV/AIDS on antiretroviral therapy. The animal health segment is focused on developing and commercializing prescription and non-prescription products for companion and production animals.



The Company's reportable segments net revenues and net loss for the three and nine months ended September 30, 2019 and 2018 consisted of:

	Three Months Ended September 30,		Nine Mont Septem					
		2019		2018		2019		2018
		(unau	dite	ed)		(unau	Idite	ed)
Revenue from external customers								
Human Health	\$	957,059	\$	1,107,682	\$	4,184,912	\$	2,545,121
Animal Health		15,720		24,385		83,294		275,148
Consolidated Totals	\$	972,779	\$	1,132,067	\$	4,268,206	\$	2,820,269
Segment profit (loss)								
Human Health	\$ (	(3,955,115)	\$	(3,145,782)	\$	(16,585,956)	\$	(10,519,413)
Animal Health	(	(3,599,950)		(2,992,570)		(15,994,097)		(8,972,759)
Consolidated Totals	\$ (	(7,555,065)	\$	(6,138,352)	\$	(32,580,053)	\$	(19,492,172)

The Company's reportable segments assets consisted of the following:

	September 30, 2019	December 31, 2018
Segment assets		
Human Health	\$ 33,571,477	\$ 37,985,935
Animal Health	64,797,329	54,893,593
Total	\$ 98,368,806	\$ 92,879,528

The reconciliation of segments assets to the consolidated assets is as follows:

	September 30,	December 31,
	2019	2018
Total assets for reportable segments	98,368,806	92,879,528
Less: Investment in subsidiary	(29,240,965)	(29,240,965)
Less: Intercompany loan	(33,501,296)	(22,596,618)
Consolidated Totals	\$ 35,626,544	\$ 41,041,945

### 14. Subsequent Events

### Series 1 Warrant Exercise Agreement

In October 2019, the Company entered into a Warrant Exercise Agreement with the sole remaining holder of the Series B Preferred Stock (the "Exercising Holder"), which Exercising Holder owns Series 1 warrants exercisable for 1,250,000 shares of Common Stock (the "Series 1 Warrant Shares"). Pursuant to the Warrant Exercise Agreement, the Company had the right, with 2 trading days' prior notice, to require the Exercising Holder to exercise all or a portion of its Series 1 warrants in accordance with the existing terms of the Series 1 warrants, in exchange for the Company's agreement to issue to the Exercising Holder a number of Series B-1 Convertible Preferred Stock, with a stated value of \$12,201, in an amount equal to one Series B-1 Convertible Preferred Share for every 19,841 Series 1 Warrant Shares issued by the Company to the Exercising Holder.

In October 2019, the Exercising Holder exercised its 1,250,000 Series 1 warrants for common stock, with the Company receiving aggregate gross proceeds of approximately \$1,750,000. In consideration of the exercise, and in accordance with the terms of the Warrant Exercise Agreement, the Company in turn issued to the Exercising Holder 63 shares of Series Convertible B-1 Preferred Stock.

## **Designation of Series B-1 Convertible Preferred Stock**

In October 2019, the Company created a new series of authorized preferred stock, designated as the "Series B-1 Convertible Preferred Stock." The Series B-1 Certificate of Designation became effective with the Secretary of State of the State of Delaware upon filing. The shares of Series B-1 Preferred Stock rank on par with the shares of the Common Stock, in each case, as to dividend rights and distributions of assets upon liquidation, dissolution or winding up of the Company.

With certain exceptions, as described in the Series B-1 Certificate of Designation, the shares of Series B-1 Convertible Preferred Stock have no voting rights. However, as long as any shares of Series B-1 Convertible Preferred Stock remain outstanding, the Series B-1 Certificate of Designation provides that the Company shall not, without the affirmative vote of holders of a majority of the then outstanding shares of Series B-1 Convertible Preferred Stock, (a) alter or change adversely the powers, preferences or rights given to the Series B-1 Convertible Preferred Stock or alter or amend the Series B-1 Certificate of Designation or (b) enter into any agreement with respect to any of the foregoing.

Each share of Series B-1 Convertible Preferred Stock is convertible at any time at the holder's option into 10,001 shares of Common Stock, which conversion ratio will be subject to adjustment for stock splits, stock dividends, distributions, subdivisions and combinations and other similar transactions as specified in the Series B-1 Certificate of Designation. Notwithstanding the foregoing, the Series B-1 Certificate of Designation further provides that the Company shall not effect any conversion of the shares of Series B-1 Convertible Preferred Stock, with certain exceptions, to the extent that, after giving effect to an attempted conversion, the holder of shares of Series B-1 Preferred Stock (together with such holder's affiliates and any persons acting as a group together with such holder or any of such holder's affiliates) would beneficially own a number of shares of Common Stock in excess of 4.99% (or 9.99% at the election of the holder prior to the date of issuance of Series B-1 Convertible Preferred Stock) of the shares of Common Stock then outstanding. At the holder's option, upon notice to the Company, the holder may increase or decrease this beneficial ownership limitation not to exceed 9.99% of the shares of Common Stock then outstanding, with any such increase becoming effective upon 61 days' prior notice to the Company.

#### **Issuance of Series B-1 Convertible Preferred Stock**

In October 2019, per the terms of a Warrant Exercise Agreement, the Company issued 63 shares of Series B-1 Convertible Preferred Stock in consideration of an existing Series 1 Warrant holder exercising 1,250,000 Series 1 warrants for the Company's common stock. The Company received aggregate gross proceeds of approximately \$1,750,000 from the exercise of the Series 1 Warrants.

#### Termination of Tempesta Royalty License Agreement

In October 2019, the Company entered into a License Termination and Settlement Agreement with Dr. Michael Tempesta, pursuant to which certain disputes between Napo and Tempesta were settled. The disputes related to royalty payments owed by Napo to Tempesta under a license agreement, dated February 8, 1990, between Tempesta and Shaman Pharmaceuticals, a predecessor-in-interest to Napo (the "1990 License"), and a modified license agreement, dated October 16, 2002, between Tempesta and Napo (the "2002 License" and together with the 1990 License, the "License Agreements") with respect to SP-303, a component of Mytesi, the Company's FDA-approved drug for the symptomatic relief of noninfectious diarrhea in adult patients with HIV/AIDS on antiretroviral therapy. At September 30, 2019, the Company had recorded a loss contingency of \$640,000 in regard to the probable settlement of the royalty dispute (see Note 6).

Pursuant to the terms of the Agreement, Tempesta received \$50,000 in cash, an unsecured promissory note issued by the Company in the aggregate principal amount of \$550,000 and 40,000 shares of the Company's common stock in exchange for the cessation of all royalty payments by Napo to Dr. Tempesta under the License Agreements. The promissory note bears interest at the rate of 2.5% per annum and matures on March 1, 2025. The promissory note provides for the Company to make semi-annual payments equal to \$50,000 plus accrued interest beginning on March 1,

2020 until the Note is paid in full. The 40,000 shares are subject to lock-up restrictions and are not tradeable by Tempesta until October 1, 2020.

## **Angel Pond Agreement**

In October 2019, the Company engaged Angel Pond Capital LLC to explore potential licensing agreements and collaborations for Mytesi<sup>®</sup> in China. In consideration of these services, the Company compensated Angel Pond Capital LLC with \$140,000 in the Company's common stock for the initial four-month term of the agreement. The Company has the option to extend the agreement term for two months for \$30,000 payable in the Company's common stock.

If a definitive commercial agreement is executed by the Company with an entity that does all or substantially all of its business in China and one with whom Angel Pond Capital LLC has had substantial contact on the Company's behalf prior to the expiration or termination of this Agreement, Angel Pond Capital LLC will be paid compensation equal to 6% (6.5% for certain engaged entities) of the amounts actually received by the Company from such engaged entity in the form of upfront licensing fees and regulatory milestone payments pursuant to such Definitive Commercial Agreement.

The Company will pay to Angel Pond Capital LLC sales milestone payments equal to \$300,000 after the first \$50,000,000 of "Net Sales" (as defined in a Definitive Commercial Agreement) has been achieved in China by an engaged entity, and \$300,000 after each and every additional \$50,000,000 in cumulative net sales in China by such engaged entity; provided, however, such milestone payments will be capped at 6% of the cumulative sales royalty payments received by the Company from such engaged entity.

If Angel Pond Capital LLC is able to raise equity capital for the Company from an engaged entity prior to the expiration or termination of the Agreement, Angel Pond Capital LLC will receive compensation equal to 6% of the total dollar amount raised.

If Angel Pond Capital LLC is instrumental in arranging for the sale of the Company to an engaged entity prior to the expiration or termination of the Agreement, then Angel Pond Capital LLC will be compensated determinant upon any such sale price.

### Securities Purchase Agreement

On November 13, 2019, Jaguar Health, Inc. ("Jaguar" or the "Company") entered into a securities purchase agreement (the "Purchase Agreement") with the purchasers named therein (each, an "Investor" and collectively, the "Investors"), pursuant to which the Company agreed to issue and sell, in a registered public offering by the Company directly to the Investors (the "Offering"), pre-funded warrants to purchase up to an aggregate of 2,222,223 shares of the Company's common stock ("Common Stock") at an offering price of \$0.80 per share (the "Pre-Funded Warrants"), which when added together with the exercise price of \$0.01 per share, equals the Minimum Price as defined under Nasdaq Listing Rule 5635(d). The gross proceeds from the Offering were approximately \$1.8 million before deducting offering expenses.

## Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations

The following discussion and analysis of financial condition and results of operations should be read together with the condensed consolidated financial statements and the related notes included in Item 1 of Part I of this Quarterly Report on Form 10-Q, and with our audited consolidated financial statements and the related notes included in our Annual Report on Form 10-K for the year ended December 31, 2018.

The discussion and analysis below includes certain forward-looking statements related to our research and development and commercialization of our products in the U.S., our future financial condition and results of operations and potential for profitability, the sufficiency of our cash resources, our ability to obtain additional equity or debt

financing, if needed, possible partnering or other strategic opportunities for the development of our products, as well as other statements related to the progress and timing of product development, present or future licensing, collaborative or financing arrangements or that otherwise relate to future periods, which are all forward-looking statements as defined by the Private Securities Litigation Reform Act of 1995. These statements represent, among other things, the expectations, beliefs, plans and objectives of management and/or assumptions underlying or judgments concerning the future financial performance and other matters discussed in this document. The words "may," "will," "should," "plan," "believe," "estimate," "intend," "anticipate," "project," and "expect" and similar expressions are intended to connote forward-looking statements. All forward-looking statements involve certain risks, uncertainties and other factors described in our Annual Report on Form 10-K, that could cause our actual commercialization efforts, financial condition and results of operations, and business prospects and opportunities to differ materially from these expressed in, or implied by, those forward-looking statements. We caution investors not to place significant reliance on the forward-looking statements contained in this report. These statements, like all statements in this report, speak only as of the date of this report (unless another date is indicated), and we undertake no obligation to update or revise forward-looking statements.

### Overview

We are a commercial stage pharmaceuticals company focused on developing novel, sustainably derived gastrointestinal products on a global basis. Our wholly-owned subsidiary, Napo Pharmaceuticals, Inc. ("Napo"), focuses on developing and commercializing proprietary human gastrointestinal pharmaceuticals for the global marketplace from plants used traditionally in rainforest areas. Our Mytesi (crofelemer) product is approved by the U.S. Food and Drug Administration ("FDA") for the symptomatic relief of noninfectious diarrhea in adults with HIV/AIDS on antiretroviral therapy.

Jaguar was founded in San Francisco, California as a Delaware corporation on June 6, 2013. Napo formed Jaguar to develop and commercialize animal health products. Effective as of December 31, 2013, Jaguar was a wholly-owned subsidiary of Napo, and Jaguar was a majority-owned subsidiary of Napo until the close of the Company's initial public offering on May 18, 2015. On July 31, 2017, the merger of Jaguar Animal Health, Inc. and Napo became effective, at which point Jaguar Animal Health's name changed to Jaguar Health, Inc. and Napo began operating as a wholly-owned subsidiary of Jaguar focused on human health and the ongoing commercialization of, and development of follow-on indications for, Mytesi. Most of the activities of the Company are now focused on the commercialization of Mytesi and development of follow-on indications for crofelemer and a second-generation anti-secretory product, lechlemer. In the field of animal health, we have limited activities which are focused on developing and commercializing first-in-class gastrointestinal products for dogs, dairy calves, foals, and high value horses.

We believe Jaguar is poised to realize a number of synergistic, value adding benefits—an expanded pipeline of potential blockbuster human follow-on indications, a second-generation anti-secretory agent, as well as a pipeline of important animal indications for crofelemer —upon which to build global partnerships. As previously announced, Jaguar, through Napo, now holds extensive global rights for Mytesi, and crofelemer manufacturing is being conducted at a multimillion-dollar commercial manufacturing facility that has been FDA-inspected and approved. Additionally, several of the drug product candidates in Jaguar's Mytesi pipeline are backed by strong Phase 2 and proof of concept evidence from completed human clinical trials.

Mytesi is a novel, first-in-class anti-secretory agent which has a basic normalizing effect locally on the gut, and this mechanism of action has the potential to benefit multiple disorders. Mytesi is in development for multiple possible follow-on indications, including cancer therapy-related diarrhea; orphan-drug indications for infants and children with congenital diarrheal disorders and short bowel syndrome (SBS); supportive care for inflammatory bowel disease (IBD); irritable bowel syndrome (IBS); and for idiopathic/functional diarrhea. In addition, a second-generation anti-secretory agent, lechlemer, in development for cholera. Mytesi previously received orphan-drug designation for SBS.

### **Financial Operations Overview**

On a consolidated basis, we have not yet generated enough revenue to date to achieve break even or positive cash flow, and we expect to continue to incur significant research and development and other expenses. Our net loss was

\$32.6 million and \$19.5 million for the nine months ended September 30, 2019 and 2018, respectively. Our net loss was \$7.6 million and \$6.1 million for the three months ended September 30, 2019 and 2018, respectively. As of September 30, 2019, we had a total stockholders' equity of \$11.4 million, an accumulated deficit of \$127.1 million, and cash of \$2.1 million. We expect to continue to incur losses and experience increased expenditures for the foreseeable future as we expand our product development activities, seek necessary approvals for our product candidates, conduct species-specific formulation studies for our non-prescription products, establish API manufacturing capabilities and begin additional commercialization activities.

#### Revenues

Our product and collaboration revenue consist of the following:

- · Revenues from the sale of our human drug Mytesi, which is sold through distributors and wholesalers.
- Revenues from the sale of our animal products branded as Neonorm Calf and Neonorm Foal. Our Neonorm and botanical extract products are primarily sold to distributors, who then sell the products to the end customers.
- Revenues from our collaborative agreement with Elanco to license, develop and commercialize Canalevia. This agreement was terminated in January 2018.

See "Results of Operations" below for more detailed discussion on revenues

### Cost of Revenue

Cost of revenue consists of direct drug substance and drug product materials expense, direct labor, distribution fees, royalties and other related expenses associated with the sale of our products.

### **Research and Development Expense**

Research and development expenses consist primarily of clinical and contract manufacturing expense, personnel and related benefit expense, stock-based compensation expense, employee travel expense, and reforestation expenses. Clinical and contract manufacturing expense consists primarily of costs to conduct stability, safety and efficacy studies, and manufacturing startup at an outsourced API provider in Italy. It also includes expenses with a third-party provider for the transfer of the Mytesi manufacturing process, and the related feasibility and validation activities.

We typically use our employee and infrastructure resources across multiple development programs. We track outsourced development costs by prescription drug product candidate and non-prescription product and we track personnel or other internal costs related to development to specific programs or development compounds.

The timing and amount of our research and development expenses will depend largely upon the outcomes of current and future trials for our prescription drug product candidates as well as the related regulatory requirements, the outcomes of current and future species-specific formulation studies for our non-prescription products, manufacturing costs and any costs associated with the advancement of our line extension programs. We cannot determine with certainty the duration and completion costs of the current or future development activities.

The duration, costs and timing of trials, formulation studies and development of our prescription drug and nonprescription products will depend on a variety of factors, including:

- the scope, rate of progress, and expense of our ongoing, as well as any additional clinical trials, formulation studies and other research and development activities;
- · future clinical trial and formulation study results;

- · potential changes in government regulations; and
- the timing and receipt of any regulatory approvals.

A change in the outcome of any of these variables with respect to the development of a prescription drug product candidate or non-prescription product could mean a significant change in the costs and timing associated with our development activities.

We expect research and development expense to increase significantly as we add personnel, commence additional clinical studies and other activities to develop our prescription drug product candidates and non-prescription products.

## Sales and Marketing Expense

Sales and marketing expenses consist of personnel and related benefit expense, stock-based compensation expense, direct sales and marketing expense, employee travel expense, and management consulting expense. We currently incur sales and marketing expenses to promote Mytesi. We do not currently have any marketing or promotional expenses related to Neonorm Calf or Neonorm Foal in the three and nine months ended September 30, 2019.

We expect sales and marketing expense to decrease going forward as we consolidate Mytesi sales territories for HIV promotion, focus on commercial partnerships for the development of follow-on indications of Mytesi and Crofelemer.

#### General and Administrative Expense

General and administrative expenses consist of personnel and related benefit expense, stock-based compensation expense, employee travel expense, legal and accounting fees, rent and facilities expense, and management consulting expense.

In the near term, we expect general and administrative expense to remain the same as we consolidate sales territories and simultaneously focus on our pipeline development. This will include growing the business without adding headcount or increasing facilities.

### Interest Expense

Interest expense consists primarily of non-cash and cash interest costs related to our borrowings.

## **Critical Accounting Policies and Significant Judgments and Estimates**

The preparation of consolidated financial statements in conformity with U.S. generally accepted accounting principles, or U.S. GAAP, requires the use of estimates and assumptions that affect the reported amounts of assets and liabilities, revenues and expenses, and related disclosures in the consolidated financial statements. Critical accounting policies are those accounting policies that may be material due to the levels of subjectivity and judgment necessary to account for highly uncertain matters or the susceptibility of such matters to change, and that have a material impact on financial condition or operating performance. While we base our estimates and judgments on our experience and on various other factors that we believe to be reasonable under the circumstances, actual results may differ from these estimates under different assumptions or conditions. We believe the following critical accounting policies used in the preparation of our consolidated financial statements require significant judgments and estimates. For additional information relating to these and other accounting policies, see Note 2 to our audited consolidated financial statements and the related notes included in our Annual Report on Form 10-K for the year ended December 31, 2018.

#### **Revenue Recognition**

The Company recognizes revenue in accordance with ASC Topic 606, *Revenue from Contracts with Customers* ("ASC 606"), which was adopted on January 1, 2018, using the modified retrospective method, which was elected to apply to all active contracts as of the adoption date. Application of the modified retrospective method did not impact amounts previously reported by the Company, nor did it require a cumulative effect adjustment upon adoption, as the Company's method of recognizing revenue under ASC 606 yielded similar results to the method utilized immediately prior to adoption. Accordingly, there was no effect to each financial statement line item as a result of applying the new revenue standard.

### Practical Expedients, Elections, and Exemptions

We recognize revenue in accordance with the core principle of ASC 606 or when there is a transfer of control of promised goods or services to customers in an amount that reflects the consideration that we expect to be entitled to in exchange for those goods or services.

We used a practical expedient available under ASC 606-10-65-1(f)4 that permits us to consider the aggregate effect of all contract modifications that occurred before the beginning of the earliest period presented when identifying satisfied and unsatisfied performance obligations, transaction price, and allocating the transaction price to the satisfied and unsatisfied performance obligations.

We also used a practical expedient available under ASC 606-10-32-18 that permits us not to adjust the amount of consideration for the effects of a significant financing component if, at contract inception, the expected period between the transfer of promised goods or services and customer payment is one year or less.

We have elected to treat shipping and handling activities as fulfillment costs.

Additionally, we have elected to record revenue net of sales and other similar taxes.

#### Contracts

Effective January 16, 2019, Napo Pharmaceuticals, Inc. engaged Cardinal Health as its exclusive third party logistics distribution agent for commercial sales for the Company's Mytesi product and to perform certain other services which include, without limitation, storage, distribution, returns, customer support, financial support, EDI and system access support (Exclusive Distribution Agreement).

In addition to the terms and conditions of the Agreement, Cardinal Health's purchase of products, and assumption of title therein, is set forth in the Title Model Addendum. The Title Model Addendum states that upon receipt of product at the 3PL Facility (Cardinal Health in La Vergne, Tennessee) from the Company, title and risk of loss for the Mytesi product purchased by Cardinal Health (excluding consigned inventory) shall pass to Cardinal Health,

and title and risk of loss for consigned inventory shall remain with Client until purchased by Cardinal Health in accordance with this Addendum. Napo Pharmaceuticals, Inc. considers Cardinal Health the Company's exclusive customer for Mytesi products per the Cardinal Health Exclusive Distribution agreement.

Our Neonorm and botanical extract products are primarily sold to distributors, who then sell the products to the end customers. Since 2014, we entered into several distribution agreements with established distributors such as Animart, Vedco, VPI, RJ Matthews, Henry Schein, and Stockmen Supply to distribute the Company's products in the United States, Japan, and China. The distribution agreements and the related purchase order together meet the contract existence criteria under ASC 606-10-25-1. Jaguar sells directly to its customers without the use of an agent.

## Performance obligations

For the products sold by each of Napo and Jaguar, the single performance obligation identified above is our promise to transfer our Mytesi product to Distributors based on specified payment and shipping terms in the arrangement. Product warranties are assurance type warranties that does not represent a performance obligation.

### **Transaction price**

For both Jaguar and our Napo subsidiary, the transaction price is the amount of consideration to which we expect to collect in exchange for transferring promised goods or services to a customer. The transaction price of Mytesi and Neonorm is the Wholesaler Acquisition Cost ("WAC"), net of discounts, returns, and price adjustments.

#### Allocate transaction price

For both Jaguar and our Napo subsidiary, the entire transaction price is allocated to the single performance obligation contained in each contract.

#### Point in time recognition

For both Jaguar and our Napo subsidiary, a single performance obligation is satisfied at a point in time, upon the FOB terms of each contract when control, including title and all risks, has transferred to the customer.

### **Disaggregation of Product Revenue**

#### Human

Sales of Mytesi are recognized as revenue when the products are delivered to the wholesaler. Revenues from the sale of Mytesi were \$957,059 and \$1,107,682 for the three months ended September 30, 2019 and 2018, respectively. Revenues from the sale of Mytesi were \$4,184,912 and \$2,545,121 for the nine months ended September 30, 2019 and 2018, respectively. The increase in sales of Mytesi is due to the more streamlined distribution and increased sales presence. Deductions from revenue are derived from reserves for estimated product returns based on historical returns experience. If actual returns differed from our historical experience, changes to the reserved could be required in future periods. Additional deductions are wholesaler fees which are based on our agreement with Cardinal Health, sales discounts, and Medicare rebates which are derived from data collected by Cardinal Health through various sources.

#### Animal

The Company recognized Neonorm revenues of \$15,720 and \$24,385 for the three months ended September 30, 2019 and 2018, respectively. Revenues from the sale of Neonorm were \$83,294 and \$97,759 for the nine months ended September 30, 2019 and 2018, respectively. Revenues are recognized upon shipment which is when title and control is transferred to the buyer. Sales of Neonorm Calf and Foal to distributors are made under agreements that may provide distributor price adjustments and rights of return under certain circumstances.

## Goodwill and Indefinite-lived Intangible Assets

## Goodwill

Goodwill is tested for impairment on an annual basis and in-between annual tests if events or circumstances indicate that an impairment loss may have occurred. The test is based on a comparison of the reporting unit's book value to its estimated fair market value. We perform the annual impairment test during the fourth quarter of each fiscal year using the opening condensed consolidated balance sheet as of the first day of the fourth quarter, with any resulting impairment recorded in the fourth quarter of the fiscal year. If the carrying value of a reporting unit's net assets exceeds its fair value, the goodwill would be considered impaired and would be reduced to its fair value.

## Indefinite-lived Intangible Assets

Acquired in-process research and development (IPR&D) are intangible assets initially recognized at fair value and classified as indefinite-lived assets until the successful completion or abandonment of the associated research and development efforts. During the development period, these assets will not be amortized as charges to earnings; instead these assets will be tested for impairment on an annual basis or more frequently if impairment indicators are identified. In connection with each annual impairment assessment and any interim impairment assessment in which indicators of impairment have been identified, we compare the fair value of the asset as of the date of the assessment with the carrying value of the asset on the condensed consolidated balance sheet. If impairment is indicated by this test, the intangible asset is written down by the amount by which the discounted cash flows expected from the intangible asset exceeds its carrying value. Fair value determinations require considerable judgement and are sensitive to changes in underlying assumptions, estimates regarding our future plans, as well as industry and economic conditions. These assumptions and estimates include projected revenues and income growth rates, terminal growth rates, competitive and consumer trends, market-based discount rates, and other factors. If current expectations of growth rates are not met or market factors outside of our control, such as discount rates, change significantly, this may lead to a further impairment in the future. Acquired in-process research and development ("IPR&D") are intangible assets initially recognized at fair value and classified as indefinite-lived assets until the successful completion or abandonment of the associated research and development efforts. During the development period, these assets will not be amortized as charges to earnings; instead these assets will be tested for impairment on an annual basis or more frequently if impairment indicators are identified. We recorded an impairment of zero and \$4,000,000 in the three and nine months ended September 30, 2019, respectively. There were no impairment charges recorded in the three and nine months ended September 30, 2018. The impairment loss is measured based on the excess of the carrying amount over the asset's fair value. Definite-lived intangible assets are amortized on a straight-line basis over the estimated periods benefited and are reviewed when appropriate for possible impairment.

### **Accrued Research and Development Expenses**

As part of the process of preparing our condensed consolidated financial statements, we are required to estimate accrued research and development expenses. Estimated accrued expenses include fees paid to vendors and clinical sites in connection with our clinical trials and studies. Clinical and contract manufacturing expense consists primarily of costs to conduct stability, safety and efficacy studies, and manufacturing startup at an outsourced API provider in Italy. It also includes expenses with a third-party provider for the transfer of the Mytesi manufacturing process, and the related feasibility and validation activities.

We review new and open contracts and communicate with applicable internal and vendor personnel to identify services that have been performed on our behalf and estimate the level of service performed and the associated costs incurred for the service when we have not yet been invoiced or otherwise notified of the actual cost for accrued expenses. The majority of our service providers invoice us monthly in arrears for services performed or as milestones are achieved in relation to our contract manufacturers. We make estimates of our accrued expenses as of each reporting date.

We base our accrued expenses related to clinical trials and studies on our estimates of the services received and efforts expended pursuant to contracts with vendors, our internal resources, and payments to clinical sites based on enrollment projections. The financial terms of the vendor agreements are subject to negotiation, vary from contract to

contract and may result in uneven payment flows. Payments under some of these contracts depend on factors such as the successful enrollment of animals and the completion of development milestones. We estimate the time period over which services will be performed and the level of effort to be expended in each period. If the actual timing of the performance of services or the level of effort varies from our estimate, we adjust the related expense accrual accordingly on a prospective basis. If we do not identify costs that have been incurred or if we underestimate or overestimate the level of services performed or the costs of these services, our actual expenses could differ from our estimates. To date, we have not made any material adjustments to our estimates of accrued research and development expenses or the level of services performed in any reporting period presented.

The Company expenses the total cost of a certain long-term manufacturing development contract ratably over the estimated life of the contract, or the total amount paid if greater.

## **Results of Operations**

## Comparison of the Nine Months Ended September 30, 2019 and 2018

The following table summarizes the Company's results of operations with respect to the items set forth in such table for the nine months ended September 30, 2019 and 2018 together with the change in such items in dollars and as a percentage.

	Nine Months Ended September 30,			
	2019	2018	Variance	Variance %
Product revenue, net	\$ 4,268,206	\$ 2,642,880	\$ 1,625,326	61.5 %
Collaboration revenue	—	177,389	(177,389)	(100.0)%
Total revenue	4,268,206	2,820,269	1,447,937	51.3 %
Operating Expenses				
Cost of product revenue	3,072,800	1,808,918	1,263,882	69.9 %
Research and development	4,426,308	3,843,918	582,390	15.2 %
Sales and marketing	5,436,635	7,119,204	(1,682,569)	(23.6)%
General and administrative	9,816,909	8,761,776	1,055,133	12.0 %
Settlement of Tempesta Royalty License Agreement	640,000	—	640,000	100 %
Impairment of indefinite-lived intangible assets	4,000,000	—	4,000,000	100 %
Total operating expenses	27,392,652	21,533,816	5,858,836	27.2 %
Loss from operations	(23,124,446)	(18,713,547)	(4,410,899)	23.6 %
Interest expense	(5,556,953)	(2,185,868)	(3,371,085)	154.2 %
Other income (expense), net	49,392	322,244	(272,852)	(84.7)%
Change in fair value of warrant, derivative liability and				
conversion option liability	1,002,865	(119,134)	1,121,999	(941.8)%
Gain on Valeant settlement		1,204,133	(1,204,133)	(100.0)%
Loss on extinguishment of debt	(4,940,911)		(4,940,911)	(100.0)%
Loss before income tax	(32,570,053)	(19,492,172)	(13,077,881)	67.1 %
Income tax expense	(10,000)		(10,000)	100 %
Net loss and comprehensive loss	(32,580,053)	(19,492,172)	(13,087,881)	67.1 %
Deemed dividend attributable to Series A preferred stock		(995,000)	995,000	100 %
Deemed dividend attributable to Series B preferred stock	(3,875,778)		(3,875,778)	100 %
Deemed dividend attributable to the Series 1 warrant				
modification	(252,106)		(252,106)	100 %
Net loss attributable to common stockholders	\$(36,707,937)	\$(20,487,172)	\$(16,220,765)	79.2 %

## Revenue

## Sales and Allowances

Due to the Company's arrangements, including elements of variable consideration, gross product sales are reduced in order to reflect the expected consideration to arrive at net product sales. Deductions to reduce gross product sales to net product sales in the nine months ended September 30, 2019 and 2018 were as follows:

		Nine Months Ended September 30,		
	2019	2018	Variance	Variance %
Gross product sales				
Mytesi	\$ 6,054,053	\$ 3,550,994	\$ 2,503,059	70.5 %
Neonorm	83,273	98,738	(15,465)	(15.7)%
Total gross product sales	6,137,326	3,649,732	2,487,594	68.2 %
Medicare rebates	(368,038)	(80,192)	(287,846)	358.9 %
Sales discounts - Mytesi	(1,055,244)	(582,017)	(473,227)	81.3 %
Sales returns - Mytesi	(88,934)	(88,052)	(882)	1.0 %
Wholesaler fee - Mytesi	(356,904)	(256,591)	(100,313)	39.1 %
Net product sales	\$ 4,268,206	\$ 2,642,880	\$ 1,625,326	61.5 %

### **Product Revenue**

Our gross product revenues were \$6,137,326 and \$3,649,732 for the nine months ended September 30, 2019 and 2018, respectively. These periods reflect revenue from the sale of our human drug Mytesi and our animal products branded as Neonorm Calf and Neonorm Foal.

#### Human

Sales of Mytesi are recognized as revenue when the products are delivered to the wholesalers. Our gross revenues from the sale of Mytesi were \$6,054,053 and \$3,550,994 in the nine months ended September 30, 2019 and 2018, respectively. The increase in sales of Mytesi is due to the more streamlined distribution and increased sales presence.

Sales discounts were \$1,055,244 and \$582,017 for the nine months ended September 30, 2019 and 2018, respectively, an increase of \$473,227. Sales discounts include discounts for prompt payments from customers and an estimated allowance for chargebacks on sales. Of the total sales discounts, allowances for chargebacks were \$935,694 and \$386,631 for the nine months ended September 30, 2019 and 2018, respectively. These allowances for chargebacks were approximately 15% and 11% on Mytesi gross product sales for the nine months ended September 30, 2019 and 2018, respectively. The increase in allowance is mostly due to the transition in distributors during 2019.

### Animal

Our Neonorm product revenues were \$83,273 and \$98,738 for the nine months ended September 30, 2019 and 2018, respectively. Focus on sales and marketing for Neonorm products had decreased during 2019.

### **Collaboration Revenue**

Collaboration revenue was derived from our January 2017 licensing, development, co-promotion and commercialization agreement with Elanco US Inc. to license, develop and commercialize Canalevia. Elanco terminated the arrangement in January 2018 and all remaining deferred revenue was recognized at that time. We recognized collaboration revenues of \$0 and \$177,389 for the nine months ended September 30, 2019 and 2018, respectively.

## **Cost of Product Revenue**

## Comparison of the Nine Months Ended September 30, 2019 and 2018

	Nine Mon Septem			
	2019	2018	Variance	Variance %
Cost of Product Revenue				
Material cost	\$ 1,624,970	\$ 847,264	\$ 777,706	91.8 %
Direct labor	435,305	407,525	27,780	6.8 %
Distribution fees	406,857	291,300	115,557	39.7 %
Royalties	(10,807)	81,342	(92,149)	(113.3)%
Other	616,475	181,487	434,988	239.7 %
Total	\$ 3,072,800	\$ 1,808,918	\$ 1,263,882	69.9 %

Cost of product revenue increased \$1,263,882 from \$1,808,918 in the nine months ended September 30, 2018 to \$3,072,800 for the same period in 2019. The increase in cost of product revenue year over year was due to increased sales of Mytesi, including non-recurring charges for a campaign batch cancellation fee of \$161,000, fees of \$227,000 from the Company's former distributor, and the write-off of non-conforming inventory, offset by the reversal of \$189,000 of accrued royalties related to the termination of a royalty agreement.

## **Research and Development**

## Comparison of the Nine Months Ended September 30, 2019 and 2018

The following table presents the components of research and development expense for the nine months ended September 30, 2019 and 2018 together with the change in such components in dollars and as a percentage:

		Nine Months Ended September 30,		
	2019	2018	Variance	Variance %
Research and Development:				
Personnel and related benefits	\$ 1,382,646	\$ 1,708,116	\$ (325,470)	(19.1)%
Materials expense and tree planting	95,297	153,595	(58,298)	(38.0)%
Travel, other expenses	137,909	108,078	29,831	27.6 %
Clinical and contract manufacturing	1,105,459	829,312	276,147	33.3 %
Stock-based compensation	548,524	400,521	148,003	37.0 %
Other	1,156,473	644,296	512,177	79.5 %
Total	\$ 4,426,308	\$ 3,843,918	\$ 582,390	15.2 %

Research and development expense increased \$582,390 from \$3,843,918 in the nine months ended September 30, 2018 to \$4,426,308 for the nine months ended September 30, 2019 due primarily to:

- Clinical and contract manufacturing expense increased \$276,147 from \$829,312 in the nine months ended September 30, 2018 to \$1,105,459 in the same period in 2019 primarily due to an increase in contract manufacturing costs for enhanced manufacturing process improvements the Company is developing to reduce the cost of revenue.
- Personnel and related benefits decreased \$325,470 from \$1,708,116 in the nine months ended September 30, 2018 to \$1,382,646 in the same period in 2019 due to changes in headcount and related salaries.



Other expenses, consisting primarily of consulting, formulation and regulatory fees, increased \$512,177 from \$644,296 in the nine months ended September 30, 2018 to \$1,156,473 in the same period in 2019. Consulting expenses increased by \$131,066 due to an increase in clinical trial consultants consistent with the temporary termination of clinical trials and an increase in R&D testing consultant work, net of an increase in Napo consulting expenses. Direct R&D testing costs increased \$314,000 due to an increase in R&D work. Formulation expenses were relatively constant in the comparative periods. Regulatory expenses decreased by \$176,038 due to the Company receiving a waiver of fee payment from the FDA. Formulation expenses were relatively constant in the comparative periods.

## Sales and Marketing

## Comparison of the Nine Months Ended September 30, 2019 and 2018

		nths Ended nber 30,		
	2019	2018	Variance	Variance %
Sales and Marketing:				
Personnel and related benefits	\$3,513,935	\$2,996,262	\$ 517,673	17.3 %
Stock-based compensation	87,215	59,762	27,453	45.9 %
Direct Marketing Fees	1,460,089	3,088,532	(1,628,443)	(52.7)%
Other	375,396	974,648	(599,252)	(61.5)%
Total	\$5,436,635	\$7,119,204	\$(1,682,569)	(23.6)%

Sales and marketing expense decreased \$1,682,569 from \$7,119,204 in the nine months ended September 30, 2018 to \$5,436,635 in the same period in 2019 due primarily to:

- Direct marketing and sales expense decreased \$1,628,443 from \$3,088,532 in the nine months ended September 30, 2018 to \$1,460,089 for the same period in 2019 due to a decrease in marketing programs for Mytesi.
- Personnel and related benefits increased \$517,673 from \$2,996,262 in the nine months ended September 30, 2018 to \$3,513,935 in the same period in 2019 due to severance expenses of \$125,865 from the sales force reduction and increased sales incentive bonuses of \$332,334 from increased sales.
- Other expenses decreased \$599,252 from \$974,648 in the nine months ended September 30, 2018 to \$375,396 in the same period in 2019 largely due to reduction in advertising costs of \$716,574.

## General and Administrative

## Comparison of the Nine Months Ended September 30, 2019 and 2018

	Nine Months Ended September 30,			
	2019	2018	Variance	Variance %
General and Administrative:				
Personnel and related benefits	\$1,371,634	\$1,321,627	\$ 50,007	3.8 %
Accounting fees	542,395	423,468	118,927	28.1 %
Third-party consulting fees	1,717,665	1,246,792	470,873	37.8 %
Legal fees	1,295,480	1,692,451	(396,971)	(23.5)%
Travel	174,965	212,707	(37,742)	(17.7)%
Stock-based compensation	1,347,246	956,508	390,738	40.9 %
Rent and lease expense	554,017	324,693	229,324	70.6 %
Public company expenses	649,965	508,934	141,031	27.7 %
Other	2,163,542	2,074,596	88,946	4.3 %
Total	\$9,816,909	\$8,761,776	\$1,055,133	12.0 %

General and administrative expenses increased \$1,055,133 from \$8,761,776 in the nine months ended September 30, 2018 to \$9,816,909 for the same period in 2019 primarily due to increases in accounting fees, third-party consulting, stock-based compensation, rent and lease expenses, and public company expenses:

- Accounting fees increased \$118,927 from \$423,468 in the nine months ended September 30, 2018 to \$542,395 in the same period in 2019, mostly due to change in the timing fees billings.
- Consulting fees increased \$470,873 from \$1,246,792 in the nine months ended September 30, 2018 to \$1,717,665 in the same period in 2019. This was to supplement the technical accounting and Finance Planning and Analysis needs of the current staff. Human Resource and Information Technology consulting services have also been in place in lieu of regular fulltime employees.
- Legal fees decreased \$396,971 from \$1,692,451 in the nine months ended September 30, 2018 to \$1,295,480 in the same period in 2019 mostly due to a decrease in patent legal fees.
- Stock-based compensation expense increased \$390,738 from \$956,508 in the nine months ended September 30, 2018 to \$1,347,246 in the same period in 2019 due to an increase in the volume of option grants to new and existing employees.
- Rent and lease expense increased \$229,324 from \$324,693 in the nine months ended September 30, 2018 to \$554,017 in the same period in 2019 primarily due to contractual increases in rent on the Company's office facilities and the additional increase in rent expense beginning in March 2019 due to the cost of the LOC warrant.
- Public company expenses increased \$141,031 from \$508,934 in the nine months ended September 30, 2018 to \$649,965 in the same period in 2019 primarily due to increased D&O liability insurance.
- Other general and administrative expenses increased \$88,946 from \$2,074,596 in nine months ended September 30, 2018 to \$2,163,542 in the same period in 2019 largely due to personnel recruiting fees.

In the near term, we expect general and administrative expense to remain the same as we focus on other areas of operations. This will include growing the business without adding headcount or increasing facilities.

## Impairment of Indefinite-lived Intangible Assets

Acquired in-process research and development ("IPR&D") are intangible assets initially recognized at fair value and classified as indefinite-lived assets until the successful completion or abandonment of the associated research and development efforts. During the development period, these assets will not be amortized as charges to earnings; instead these assets will be tested for impairment on an annual basis or more frequently if impairment indicators are identified. We recorded an impairment of \$4,000,000 in the nine months ended September 30, 2019. There were no impairment charges recorded in the nine months ended September 30, 2018. The impairment loss is measured based on the excess of the carrying amount over the asset's fair value.

## Comparison of the Three Months Ended September 30, 2019 and 2018

The following table summarizes the Company's results of operations with respect to the items set forth in such table for the three months ended September 30, 2019 and 2018 together with the change in such items in dollars and as a percentage:

	Three Mor Septem			
	2019	2018	Variance	Variance %
Product revenue	\$ 972,779	\$ 1,132,067	\$ (159,288)	(14.1)%
Collaboration revenue	—	—	—	%
Total revenue	972,779	1,132,067	(159,288)	(14.1)%
Operating Expenses				
Cost of product revenue	947,495	736,733	210,762	28.6 %
Research and development	1,307,296	1,481,166	(173,870)	(11.7)%
Sales and marketing	1,698,440	2,716,752	(1,018,312)	(37.5)%
General and administrative	3,106,633	2,703,628	403,005	14.9 %
Settlement of Tempesta Royalty License Agreement	640,000		640,000	100.0
Total operating expenses	7,699,864	7,638,279	61,585	0.8 %
Loss from operations	(6,727,085)	(6,506,212)	(220,873)	3.4 %
Interest expense, net	(1,352,845)	(872,044)	(480,801)	55.1 %
Other income (expense), net	28,784	9,540	19,244	201.7
Change in fair value of warrants, derivative liability and				
conversion option liability	841,834	26,231	815,603	3,109.3 %
Gain on Valeant settlement	—	1,204,133	(1,204,133)	(100.0)%
Loss on extinguishment of debt	(335,753)		(335,753)	(100.0)
Loss before income tax	(7,545,065)	(6,138,352)	(1,406,713)	22.9 %
Income tax expense	(10,000)	—	(10,000)	100 %
Net loss and comprehensive loss	(7,555,065)	(6,138,352)	(1,416,713)	23.1 %
Deemed dividend attributable to Series B preferred stock	(3,875,778)		(3,875,778)	100 %
Deemed dividend attributable to the Series 1 warrant				
modification	(252,106)		(252,106)	100 %
Net loss attributable to common shareholders	\$(11,682,949)	\$(6,138,352)	(5,544,597)	90.3 %

## Revenue

## Sales and Allowances

Due to the Company's arrangements, including elements of variable consideration, gross product sales are reduced in order to reflect the expected consideration to arrive at net product sales. Deductions to reduce gross product sales to net product sales in the three months ended September 30, 2019 and 2018 were as follows:

		nths Ended ıber 30,		
	2019	2018	Variance	Variance %
Gross product sales				
Mytesi	\$ 1,897,417	\$ 1,592,801	\$ 304,616	19.1 %
Neonorm	15,699	24,630	(8,931)	(36.3)%
Total gross product sales	1,913,116	1,617,431	295,685	18.3 %
Adjustment for product donations	(336,934)		(336,934)	100.0 %
Medicare rebates	(98,912)	(80,192)	(18,720)	23.3 %
Sales discounts - Mytesi	(318,394)	(262,927)	(55,467)	21.1 %
Sales returns - Mytesi	(30,999)	(42,403)	11,404	(26.9)%
Wholesaler fee - Mytesi	(155,098)	(99,842)	(55,256)	55.3 %
Net product sales	\$ 972,779	\$ 1,132,067	\$ (159,288)	(14.1)%

## **Product Revenue**

Our gross product revenues were \$1,913,116 and \$1,617,431 for the three months ended September 30, 2019 and 2018, respectively. These periods reflect revenue from the sale of our human drug Mytesi and our animal products branded as Neonorm Calf and Neonorm Foal.

### Human

Gross sales of Mytesi are recognized as revenue when the products are delivered to the wholesalers. Our gross revenues from the sale of Mytesi were \$1,897,417 and \$1,592,801 in the three months ended September 30, 2019 and 2018, respectively. The increase in sales of Mytesi is due to the more streamlined distribution and increased sales presence.

*Out of period adjustment* - During the period ended September 30, 2019, the Company identified a prior period product donation incorrectly recorded as revenue. The adjustment, totaling \$336,934 related to revenue and accounts receivable, was corrected within the current quarter. The impact of the adjustment was a reduction to net income of \$336,934. This adjustment does not affect Mytesi revenue associated with sales in the three months ended September 30, 2019. Management has determined that this out of period correcting adjustment is not material to the prior period consolidated financial statements and has therefore recorded it in the three months ended September 30, 2019.

Sales discounts were \$318,394 and \$262,927 for the three months ended September 30, 2019 and 2018, respectively, an increase of \$55,467. Sales discounts include discounts for prompt payments from customers and an estimated allowance for chargebacks on sales. Of the total amount of sales discounts, allowances for chargebacks were \$323,867 and \$176,010 for the three months ended September 30, 2019 and 2018, respectively. These allowances for chargebacks were approximately 21% and 11% of Mytesi gross product sales for the three months ended September 30, 2019 and 2018, respectively. The increase in allowance is mostly due to the transition in distributors during 2019.

#### Animal

We recognized Neonorm gross revenues of \$15,699 and \$24,630 for the three months ended September 30, 2019 and 2018, respectively. Focus on sales and marketing for Neonorm products had decreased during 2019.

## **Cost of Product Revenue**

## Comparison of the Three Months Ended September 30, 2019 and 2018

	Three Months Ended September 30,					
	 2019		2018		Variance	Variance %
Cost of Product Revenue						
Material cost	\$ 575,752	\$	371,108	\$	204,644	55.1 %
Direct labor	138,851		141,822		(2,971)	(2.1)%
Distribution fees	251,507		128,182		123,325	96.2 %
Royalties	(114,564)		38,119		(152,683)	(400.5)%
Other	95,949		57,502		38,447	66.9 %
Total	\$ 947,495	\$	736,733	\$	210,762	28.6 %

Cost of product revenue increased \$210,762 from \$736,733 in the three months ended September 30, 2018 to \$947,495 for the same period in 2019. The increase in cost of product revenue quarter over quarter was due to increased sales of Mytesi, including a campaign batch cancellation fee of \$161,000, fees of \$227,000 from the Company's former distributor, and offset by the reversal of \$189,000 of accrued royalties related to the termination of a royalty agreement.

## **Research and Development**

### Comparison of the Three Months Ended September 30, 2019 and 2018

		Three Months Ended September 30,				
		2019		2018	 Variance	Variance %
Research and Development:						
Personnel and related benefits	\$	411,542	\$	562,643	\$ (151,101)	(26.9)%
Materials expense and tree planting		29,782		47,271	(17,489)	(37.0)%
Travel, other expenses		48,397		60,982	(12,585)	(20.6)%
Clinical and contract manufacturing		273,188		209,886	63,302	30.2 %
Stock-based compensation		332,636		175,772	156,864	89.2 %
Other		211,751		424,612	(212,861)	(50.1)%
Total	<b>\$</b> 1	1,307,296	\$	1,481,166	\$ (173,870)	(11.7)%

Research and development expense decreased \$173,870 from \$1,481,166 in the three months ended September 30, 2019 to \$1,307,296 for the same period in 2019 largely due to:

- Clinical and contract manufacturing expense increased \$63,302 from \$209,886 in the three months ended September 30, 2018 to \$273,188 in the same period in 2019 primarily due to an increase in contract manufacturing costs for enhanced manufacturing process improvements the Company is developing to reduce the cost of revenue.
- Personnel and related benefits decreased \$151,101 from \$562,643 in the three months ended September 30, 2018 to \$411,542 in the same period in 2019 due to changes in headcount and related salaries.
- Stock-based compensation increased \$156,864 from \$175,772 in the three months ended September 30, 2018 to \$332,636 in the same period in 2019 due to an increase in the volume of option grants to new and existing employees.
- Other expenses, consisting primarily of consulting, formulation and regulatory fees, decreased \$212,861 from \$424,612 in the three months ended September 30, 2018 to \$211,751 in the same period in 2019. Consulting expenses increased by \$28,715 due to an increase in clinical trial consultants consistent with the

temporary termination of clinical trials and an increase in R&D testing consultant work, net of an increase in Napo consulting expense. Direct R&D testing costs decreased \$328,930. Formulation expenses were relatively constant in the comparative periods. Regulatory expenses decreased by \$13,960 due to the Company receiving a waiver of fee payment from the FDA. Formulation expenses were relatively constant in the comparative periods.

## Sales and Marketing

## Comparison of the Three Months Ended September 30, 2019 and 2018

		nths Ended nber 30,		
	2019	2018	Variance	Variance %
Sales and Marketing:				
Personnel and related benefits	\$1,002,044	\$1,312,164	\$ (310,120)	(23.6)%
Stock-based compensation	41,122	39,210	1,912	4.9 %
Direct marketing fees and expense	466,908	887,481	(420,573)	(47.4)%
Other	188,366	477,897	(289,531)	(60.6)%
Total	\$1,698,440	\$2,716,752	\$(1,018,312)	(37.5)%

Sales and marketing expense decreased \$1,018,312 from \$2,716,752 in the three months ended September 30, 2018 to \$1,698,440 in the same period in 2019 largely due to a decrease in marketing programs and advertising costs for Mytesi.

- Direct marketing and sales expense decreased \$420,573 from \$887,481 in the three months ended September 30, 2018 to \$466,908 for the same period in 2019 due to a decrease in marketing programs for Mytesi.
- Personnel and related benefits decreased \$310,120 from \$1,312,164 in the three months ended September 30, 2018 to \$1,002,044 in the same period in 2019 due to the reduction of our sales headcount in support of Mytesi.
- Other expenses decreased \$289,531 from \$477,897 in the three months ended September 30, 2018 to \$188,366 in the same period in 2019 largely due to a decrease of \$216,495 in marketing consulting.

### General and Administrative

## Comparison of the Three Months Ended September 30, 2019 and 2018

		nths Ended nber 30,		
	2019	2018	Variance	Variance %
General and Administrative:				
Personnel and related benefits	\$ 473,645	\$ 442,870	\$ 30,775	6.9 %
Accounting fees	181,012	68,082	112,930	165.9 %
Third-party consulting fees	413,988	409,678	4,310	1.1 %
Legal fees	181,295	306,259	(124,964)	(40.8)%
Travel	75,484	59,575	15,909	26.7 %
Stock-based compensation	736,351	465,112	271,239	58.3 %
Rent and lease expense	152,741	125,936	26,805	21.3 %
Public company expenses	248,185	122,503	125,682	102.6 %
Other	643,932	703,613	(59,681)	(8.5)%
Total	\$3,106,633	\$2,703,628	\$ 403,005	14.9 %

General and administrative expenses increased \$403,005 from \$2,703,628 in the three months ended September 30, 2018 to \$3,106,633 for the same period in 2019,

- Accounting fees increased \$112,930 from \$68,082 in the three months ended September 30, 2018 to \$181,012 in the same period in 2019 mostly due to the change in the timing of fees billings.
- Legal fees decreased \$124,964 from \$306,259 in the three months ended September 30, 2018 to \$181,295 in the same period in 2019 mostly due to a decrease in patent legal fees.
- Stock-based compensation expense increased \$271,239 from \$465,112 in the three months ended September 30, 2018 to \$736,351 in the same period in 2019 due to an increase in the volume of option grants to new and existing employees.
- Public company expenses increased \$125,682 from \$122,503 in the three months ended September 30, 2018 to \$248,185 in the same period in 2019 mostly due to \$157,445 increase in D&O liability insurance.
- Other general and administrative expenses decreased \$59,681 from \$703,613 in three months ended September 30, 2018 to \$643,932 in the same period in 2019 largely due to personnel recruiting fees.

In the near term, we expect general and administrative expense to remain the same as we consolidate sales territories and simultaneously focus on our pipeline development. This will include growing the business without adding headcount or increasing facilities.

## Settlement of Tempesta Royalty License Agreement

### Comparison of the Three Months Ended September 30, 2019 and 2018

	Three Months Ended September 30,					
		2019		2018	Variance	Variance %
Settlement of Tempesta Royalty License Agreement		640,000			 640,000	100 %
Total	\$	640,000	\$	_	\$ 640,000	100 %

A royalty license agreement settlement liability increased \$640,000 from zero in the three months ended September 30, 2018 to \$640,000 in the same period in 2019. In October 2019, the Company and Tempesta settled the dispute, pursuant to which Tempesta received \$50,000 in cash, an unsecured promissory note issued by the Company in the aggregate principal amount of \$550,000 and 40,000 shares of the Company's common stock in exchange for the cessation of all royalty payments by Napo to Dr. Tempesta under the License Agreements (see Note 14).

### **Deemed Dividends**

### Comparison of the Three Months Ended September 30, 2019 and 2018

	Three Mont Septemb			
	2019	2018	Variance	Variance %
Deemed dividend attributable to Series B preferred stock	\$ (3,875,778)	\$ —	\$ (3,875,778)	100 %
Deemed dividend attributable to the Series 1 warrant				
modification	(252,106)	—	(252,106)	100 %
Total	\$ (4,127,884)	\$ —	\$ (4,127,884)	100 %

Deemed dividends increased \$4,127,884 from zero in the three months ended September 30, 2018 to \$4,127,884 in the same period in 2019 due to the deemed dividend charge of \$3,875,778 for the accretion of the discount



on the Series B Preferred Stock issued on July 23, 2019, and the deemed dividend charge of \$252,106 that resulted from the modification of the Series 1 Warrants in September 2019.

## Liquidity and Capital Resources

## Sources of Liquidity

We have incurred net losses since our inception. For the three months ended September 30, 2019 and 2018, we had net losses of \$7.6 million and \$6.1 million, respectively, and for the nine months ended September 30, 2019 and 2018, we had net losses of \$32.6 million and \$19.5 million, respectively. We expect to incur additional losses in the near-term future. At September 30, 2019 we had an accumulated deficit of \$127.1 million. To date, we have generated only limited revenue, and we may never achieve revenue sufficient to offset our expenses.

We had cash of \$2.1 million as of September 30, 2019. We do not believe our current capital is sufficient to fund our operating plan through one year from the issuance of these unaudited condensed consolidated financial statements. Our independent registered public accounting firm has included an explanatory paragraph in its audit report included in our Annual Report on Form 10-K for the year ended December 31, 2018 regarding our assessment of substantial doubt about our ability to continue as a going concern. Our condensed consolidated financial statements do not include any adjustments that may result from the outcome of this uncertainty.

We have funded our operations primarily through the issuance of equity and debt financing, in addition to sales of our commercial products. Our funding activities in the nine months ended September 30, 2019 were as follows:

- Between January and April 2019, we issued 76,190 and 4,843 shares of our common stock via equity lines of credit with Oasis Capital. A further 114,286 shares of common stock were issued to Oasis Capital via an option to increase this equity line of credit. In all, 195,319 common shares were issued for total proceeds were \$2.6 million.
- Between January and June 2019, we entered into exchange agreements with Chicago Venture Partners L.P., pursuant to which we issued to CVP 395,970 shares of common stock, with a fair value of \$8.2 million, in exchange for a reduction of approximately \$5.8 million in the principal amount of the CVP Promissory Notes and \$2.4 million in accrued interest thereon.
- Between March and June 2019, we entered into securities purchase agreement with selected investors, pursuant to which we issued \$5.1 million in short-term promissory notes (the Bridge Notes). We settled these short-term promissory notes and interest accrued thereon in July 2019.
- In March 2019, we entered into a securities purchase agreement with Oasis Capital, whereby we issued in a registered direct public offering 19,019 shares to Oasis Capital for gross proceeds of approximately \$0.3 million.
- In March 2019, we issued 19,752 shares of our common stock in lieu of a cash payment of \$0.4 million in interest expense on the Napo convertible notes payable.
- Between May and July 2019, we entered into exchange agreements with Chicago Venture Partners L.P., pursuant to which we issued to CVP 1,119,440 shares of common stock with a fair value of \$6.7 million, in exchange for a reduction of approximately \$6.2 million in the principal amount of CVP Exchange Note 1 and \$0.1 million in accrued interest thereon.
- In July 2019, we entered into an underwriting agreement, relating to a public offering, in which we sold 2,886,500 shares of common stock, 10,787 shares of Series B convertible preferred stock, Series 1 warrants to purchase 8,280,000 shares of common stock and Series 2 warrants to purchase 8,280,000

shares of common stock. We received total gross proceeds from the offering was \$16.6 million, or \$14.0 million net of issuance and other costs of \$2.6 million.

We expect our expenditures will continue to increase as we continue our efforts to develop our products and continue development of our pipeline in the near term. We do not believe our current capital is sufficient to fund our operating plan through one year from the issuance of these unaudited condensed consolidated financial statements. We will need to seek additional funds through public or private equity or debt financings or other sources, such as strategic collaborations. Such financing may result in dilution to stockholders, imposition of debt covenants and repayment obligations or other restrictions that may affect our business. In addition, we may seek additional capital due to favorable market conditions or strategic considerations even if we believe we have sufficient funds for our current or future operating plans. We may also not be successful in entering into partnerships that include payment of upfront licensing fees for our products and product candidates for markets outside the United States, where appropriate. If we do not generate upfront fees from any anticipated arrangements, it would have a negative effect on our operating plan. We plan to finance our operations and capital funding needs through equity and/or debt financing as well as revenue from future product sales. However, there can be no assurance that additional funding will be available to us on acceptable terms on a timely basis, if at all, or that we will generate sufficient cash from operations to adequately fund operating needs or ultimately achieve profitability. If we are unable to obtain an adequate level of financing needed for the long-term development and commercialization of our products, we will need to curtail planned activities and reduce costs. Doing so will likely have an adverse effect on our ability to execute on our business plan. These matters raise substantial doubt about the ability of the Company to continue in existence as a going concern within one year after issuance date of the condensed consolidated financial statements.

## Cash Flows for the Nine Months Ended September 30, 2019 Compared to the Nine Months Ended September 30, 2018

The following table shows a summary of cash flows for the nine months ended September 30, 2019 and 2018:

	September 30,				
	2019	_	2018		
Total cash used in operating activities	\$ (17,317,513)	\$	(17,828,754)		
Total cash used in investing activities			(6,527)		
Total cash provided by financing activities	16,818,856		17,801,543		
Net increase (decrease) in cash	\$ (498,657)	\$	(33,738)		

## Cash Used in Operating Activities

During the nine months ended September 30, 2019, net cash used in operating activities of \$17,317,513 resulted from our net loss of \$32,580,053 adjusted for an impairment charge of \$4,000,000 associated with our indefinite-lived intangible assets, reduction in the fair value of warrants, conversion option and derivative liability of \$1,002,865, amortization of debt discounts and debt issuance costs of \$5,032,214, stock-based compensation of \$1,982,985, depreciation and amortization expenses of \$1,304,946, amortization of operating lease right-of-use assets of \$554,017, loss on the extinguishment of debt of \$4,940,911 and of changes in operating assets and liabilities of \$1,549,668.

During the nine months ended September 30, 2018, cash used in operating activities of \$17,828,754 resulted from our net loss of \$19,492,172, adjusted by non-cash accretion of end of term payment, debt discounts and debt issuance costs of \$1,461,133, stock-based compensation of \$1,416,791, reduction in the fair value of warrants, conversion option and derivative liability of \$178,461, common stock issued in exchange for services rendered of \$6,425, depreciation and amortization expenses of \$989,116, interest paid on the conversion of debt to equity of \$21,275, net of changes in operating assets and liabilities of \$2,052,861.

### Cash Used in Investing Activities

During the nine months ended September 30, 2019 no cash was used in investing activities. During the nine months ended September 30, 2018, cash used in investing activities was \$6,527 and consisted of cash used to purchase property and equipment.

## Cash Provided by Financing Activities

During the nine months ended September 30, 2019, net cash provided by financing activities of \$16,818,856 consisted of \$2,602,896 in net proceeds received from 195,319 shares of common stock issued to Oasis Capital via an option to increase the equity line of credit, \$266,266 in net proceeds received from 19,019 shares issued in a registered direct public offering to Oasis Capital, \$14,049,694 in net proceeds received from the July 2019 public offering, offset by \$100,000 in repayments of notes payable.

During the nine months ended September 30, 2018, cash provided by financing activities of \$17,801,543 primarily consisted of \$1,305,774 and \$750,100 received in separate PIPE ("Private Investment in Public Entity") financings, \$14,000,002 million in net proceeds from the Sagard financing, including \$5,624,867 in net proceeds received from the issuance of common stock and \$9,000,002 in net proceeds received from the issuance of convertible preferred stock, \$2,310,000 received in the issuance of non-convertible debt, and \$500,000 received in the issuance of convertible debt, offset by \$1,689,200 in principal payments of our long-term debt.

## JOBS Act

In April 2012, the JOBS Act was enacted. Section 107 of the JOBS Act provides that an emerging growth company can take advantage of an extended transition period for complying with new or revised accounting standards. Thus, an emerging growth company can delay the adoption of certain accounting standards until those standards would otherwise apply to private companies. We have irrevocably elected not to avail ourselves of this extended transition period, and, as a result, we will adopt new or revised accounting standards on the relevant dates on which adoption of such standards is required for other public companies.

## Item 3. Quantitative and Qualitative Disclosures About Market Risk

Not applicable.

### **Item 4. Controls and Procedures**

## **Disclosure Controls and Procedures**

Our management, Chief Executive Officer and Principal Financial and Accounting Officer, evaluated the effectiveness of our disclosure controls and procedures as of September 30, 2019. The term "disclosure controls and procedures," as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act, means controls and other procedures of a company that are designed to ensure that information required to be disclosed by us in the reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms.

Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by us in the reports that we file or submit under the Exchange Act is accumulated and communicated to our management, including our Chief Executive Officer and Principal Financial and Accounting Officer, as appropriate, to allow timely decisions regarding required disclosure. Based on this evaluation, our Chief Executive Officer and Principal Financial and Accounting Officer concluded that our disclosure controls and procedures were not effective at the reasonable assurance level as of September 30, 2019. This conclusion was based on the material weakness in our internal control over financial reporting further described below.

## Material Weakness

A material weakness is a deficiency, or a combination of deficiencies, in internal control over financial reporting, such that there is a reasonable possibility that a material misstatement of our annual or interim consolidated

financial statements will not be prevented or detected and corrected on a timely basis. In connection with our preparation of our annual financial statements for the year ended December 31, 2018, we identified a material weakness in our internal control over financial reporting related to staff turnover in our accounting department. We did not maintain a sufficient complement of internal personnel with appropriate knowledge, experience and/or training commensurate with our financial reporting requirements. We relied on outside consulting technical experts and did not maintain adequate internal qualified personnel to properly supervise and review the information provided by the outside consulting technical experts to ensure certain significant complex transactions and technical matters were properly accounted for, specifically with respect to accurately reflecting all potential accrued services on the balance sheet at December 31, 2018. In addition, we identified inadequate internal technical staffing levels and expertise to properly supervise and review the information of the outside consulting technical experts to properly apply ASC 815-40 for liability classification of certain warrants and ASC 470-50 and ASC 470-60 to properly reflect the accounting impact to multiple modifications of the Company's debt instruments. We have concluded that we must implement new or improved controls in our financial statement close process and policies in reviewing information received from our outside consulting technical experts.

#### Remediation Efforts to Address Material Weakness

We have prepared a preliminary remediation plan to address the underlying causes of the material weakness described above. The preliminary remediation plan includes:

- Reassessing the design and operation of internal controls over financial reporting, including interim and annual accruals cutoff procedures and review procedures related to information received from our outside consulting technical experts;
- We hired two senior level permanent accounting personnel and trained to further educate the existing staff on the accounting of significant complex transactions and technical accounting matters;
- Continue to reassess the staffing level and implement process improvements to ensure that our remediation plan is successful.

We cannot assure you that the measures we may take in response to this material weakness will be sufficient to remediate such material weakness or to avoid potential future material weaknesses.

### **Internal Control over Financial Reporting**

Based on their evaluation as of the end of the period covered by this Quarterly Report on Form 10-Q, our Chief Executive Officer and Principal Financial and Accounting Officer have concluded that, as of such date, our disclosure controls and procedures were not effective due to the existence of a material weakness in the design of our internal controls over financial reporting relating to staff turnover in our accounting department.

A material weakness is a deficiency, or combination of deficiencies, in internal control over financial reporting such that there is a reasonable possibility that a material misstatement of our annual or interim consolidated financial statements will not be prevented or detected in a timely basis. We plan to enhance existing controls and design and implement new controls applicable to staff, to ensure that our staff is accurately trained to properly understand and review financial transactions. We plan to devote significant time and attention to remediate the above material weakness as soon as reasonably possible. As we continue to evaluate our controls, we will make the necessary changes to improve the overall design and operation of our controls. We believe these actions will be sufficient to remediate the identified material weakness and strengthen our internal control over financial reporting; however, there can be no guarantee that such remediation will be sufficient. We will continue to monitor the effectiveness of our controls and will make any further changes management determines appropriate.

### **Changes in Internal Control over Financial Reporting**

There was no change in our internal control over financial reporting that occurred during the period covered by this Quarterly Report on Form 10-Q that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.



## PART II. — OTHER INFORMATION

## Item 1. Legal Proceedings.

On July 20, 2017, a putative class action complaint was filed in the United States District Court, Northern District of California, Civil Action No. 3:17-cv-04102, by Tony Plant (the "Plaintiff") on behalf of shareholders of the Company who held shares on April 12, 2017 and were entitled to vote at the 2017 Special Shareholders Meeting, against the Company and certain individuals who were directors as of the date of the vote (collectively, the "Defendants"), in a matter captioned Tony Plant v. Jaguar Animal Health, Inc., et al., making claims arising under Section 14(a) and Section 20(a) of the Exchange Act and Rule 14a-9, 17 C.F.R. § 240.14a-9, promulgated thereunder by the SEC. The claims alleged false and misleading information provided to investors in the Joint Proxy Statement/Prospectus on Form S-4 (File No. 333-217364) declared effective by the Commission on July 6, 2017 related to the solicitation of votes from shareholders to approve the merger and certain transactions related thereto. The Company accepted service of the complaint and summons on behalf of itself and the United States-based director Defendants on November 1, 2017. The Company has not accepted service on behalf of, and Plaintiff has not yet served, the non-U.S.-based director Defendants.

On October 3, 2017, Plaintiff filed a motion seeking appointment as lead plaintiff and appointment of Monteverde & Associates PC as lead counsel. That motion was granted. Plaintiff filed an amended complaint against the Company and the United States-based director Defendants on January 10, 2018. The Defendants filed a motion to dismiss on March 12, 2018, for which oral arguments were held on June 14, 2018. The court dismissed the amended complaint on September 20, 2018 but gave Plaintiff leave to amend the complaint within 20 days from the date of dismissal. On October 10, 2018, Plaintiff amended the complaint to focus on the Company's commercial strategy in support of Equilevia and the related disclosure statements in the Form S-4 described above. On November 6, 2018, the Defendants moved to dismiss the second amended complaint. The Defendants argued in their motion that the second amended complaint fails to state a claim upon which relief can be granted because the omissions and misrepresentations alleged in the complaint are immaterial as a matter of law. The court denied the Defendants' motion to dismiss on June 28, 2019. The Defendants answered the second amended complaint on August 2, 2019. Discovery will now proceed. If the Plaintiff were able to prove his allegations in this matter and to establish the damages he asserts, then an adverse ruling could have a material impact on the Company.

The Company believes that it is not probable that an asset has been impaired or a liability has been incurred as of the date of the financial statements and the amount of any potential loss is not reasonably estimable.

Other than as described above, there are currently no claims or actions pending against us, the ultimate disposition of which could have a material adverse effect on our results of operations, financial condition or cash flows.

## Item 2. Unregistered Sales of Equity Securities and Use of Proceeds

Other than equity securities issued in transactions disclosed on our Current Report on Form 8-K/A filed with the SEC on July 12, 2019, there were no unregistered sales of equity securities during the period.

### Item 5. Other Information

### **Departure of Directors or Certain Officers**

On August 9, 2019, Karen Wright resigned her position as Chief Financial Officer and Treasurer of the Company. On August 13, 2019, the board of directors of the Company appointed Carol R. Lizak to serve as the Company's principal financial and accounting officer.

## Item 6. Exhibits

Exhibit No.	Description
3.1	Third Amended and Restated Certificate of Incorporation of Jaguar Health, Inc. (f/k/a Jaguar Animal
	Health, Inc.) (incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K (No. 001-36714)
	<u>filed on August 1, 2017).</u>
3.2	Certificate of Second Amendment of the Third Amended and Restated Certificate of Incorporation
	(incorporated by reference to Exhibit 3.1 to the Form 8-K of Jaguar Health, Inc. filed June 1, 2018, File
	<u>No. 001-36714).</u>
3.3	Certificate of Third Amendment of the Third Amended and Restated Certificate of Incorporation (incorporated
	by reference to Exhibit 3.2 to the Form 8-K of Jaguar Health, Inc. filed June 1, 2018, File No. 001-36714).
3.4	Certificate of Designation of Series B Preferred Stock (incorporated by reference to Exhibit 3.1 to the Form 8-
	K of Jaguar Health, Inc. filed July 23, 2019, File No. 001-36714).
4.1	Specimen Common Stock Certificate of Jaguar Health, Inc. (incorporated by reference to Exhibit 4.1 to the
1.2	Form 8-K of Jaguar Health, Inc. filed June 1, 2018, File No. 001-36714).
4.2	<u>Secured Promissory Note, dated May 28, 2019, by and among Jaguar Health, Inc., Napo Pharmaceuticals, Inc.</u> and Chicago Venture Partners, L.P. (incorporated by reference to Exhibit 4.1 to the Form 8-K of Jaguar
	Health, Inc. filed June 3, 2019, File No. 001-36714).
4.3	<u>Secured Promissory Note, dated May 28, 2019, by and among Jaguar Health, Inc., Napo Pharmaceuticals, Inc.</u>
4.5	and Chicago Venture Partners, L.P. (incorporated by reference to Exhibit 4.2 to the Form 8-K of Jaguar
	Health, Inc. filed June 3, 2019, File No. 001-36714).
4.4	Form of Series 1 Warrant (incorporated by reference to Exhibit 4.1 to the Form 8-K of Jaguar Health, Inc. filed
	July 23, 2019, File No. 001-36714).
4.5	Form of Series 2 Warrant (incorporated by reference to Exhibit 4.2 to the Form 8-K/A of Jaguar Health, Inc.
	filed July 23, 2019, File No. 001-36714).
10.1#	Promotion Letter, dated September 6, 2019 (incorporated by reference to Exhibit 10.1 to the Form 8-K of
	Jaguar Health, Inc. filed September 9, 2019, File No. 001-36714).
10.2	First Amendment to Landlord Letter of Credit & Warrant Issuance Agreement, dated September 16, 2019, by
	and between Jaguar Health, Inc. and Pacific Capital Management, LLC (incorporated by reference to Exhibit
	10.1 to the Form 8-K of Jaguar Health, Inc. filed September 20, 2019, File No. 001-36714).
31.1*	Principal Executive Officer's Certification Pursuant to Section 302 of the Sarbanes- Oxley Act of 2002.
31.2*	Principal Financial Officer's Certification Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32.1**	Certification Pursuant to 18 U.S.C. § 1350 (Section 906 of Sarbanes-Oxley Act of 2002).
32.2**	Certification Pursuant to 18 U.S.C. § 1350 (Section 906 of Sarbanes-Oxley Act of 2002).
101.INS	XBRL Instance Document
101.SCH	XBRL Taxonomy Extension Schema Document
101.CAL	XBRL Taxonomy Extension Calculation Document
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document
101.LAB	XBRL Taxonomy Extension Label Linkbase Document
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document
101.LAB	XBRL Taxonomy Extension Label Linkbase Document

\* Filed herewith.

\*\* In accordance with Item 601(b)(32)(ii) of Regulation S-K and SEC Release No. 34-47986, the certifications furnished in Exhibits 32.1 and 32.2 hereto are deemed to accompany this Form 10-Q and will not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934 (the "Exchange Act") or deemed to be incorporated by reference into any filing under the Exchange Act or the Securities Act of 1933 except to the extent that the registrant specifically incorporates it by reference.

# Management contract or compensatory plan or arrangement.

# SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

Date: November 14, 2019

JAGUAR HEALTH, INC.

By: /s/ Carol R. Lizak Principal Financial and Accounting Officer

## PRINCIPAL EXECUTIVE OFFICER'S CERTIFICATION PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Lisa A. Conte, certify that:

1. I have reviewed this quarterly report on Form 10-Q of Jaguar Health, Inc. for the quarter ended September 30, 2019;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 14, 2019

/s/ Lisa A. Conte Lisa A. Conte President and Chief Executive Officer (Principal Executive Officer)

## PRINCIPAL FINANCIAL OFFICER'S CERTIFICATION PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Carol Lizak, certify that:

1. I have reviewed this quarterly report on Form 10-Q of Jaguar Health, Inc. for the quarter ended September 30, 2019;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 14, 2019

/s/ Carol Lizak Carol Lizak Principal Financial and Accounting Officer

## CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report of Jaguar Health, Inc. (the "Company") on Form 10-Q for the quarter ended September 30, 2019, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), the undersigned officer of the Company certifies, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to such officer's knowledge:

(1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and

(2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: November 14, 2019

/s/ Lisa A. Conte

Lisa A. Conte President and Chief Executive Officer (Principal Executive Officer)

## CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report of Jaguar Health, Inc. (the "Company") on Form 10-Q for the quarter ended September 30, 2019, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), the undersigned officer of the Company certifies, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that, to such officer's knowledge:

(1) The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and

(2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: November 14, 2019

/s/ Carol Lizak Carol Lizak Principal Financial and Accounting Officer