

CHIMERIX INC
Form 10-Q
August 08, 2018
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 June 30, 2018

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: 001-35867

CHIMERIX, INC.
(Exact Name of Registrant as Specified in Its Charter)
Delaware 33-0903395
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification No.)

2505 Meridian Parkway, Suite 100
Durham, North Carolina 27713
(Address of Principal Executive Offices) (Zip Code)

(919) 806-1074
(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 No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted 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 and post such files). Yes No

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. (Check one):
Large accelerated filer Accelerated filer
Non-accelerated filer Smaller reporting company
(Do not check if a smaller reporting company) Emerging growth company

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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

As of July 31, 2018, the number of outstanding shares of the registrant's common stock, par value \$0.001 per share, was 48,026,276.

CHIMERIX, INC.

FORM 10-Q FOR THE QUARTER ENDED JUNE 30, 2018

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PART I - FINANCIAL INFORMATION

ITEM 1. CONSOLIDATED FINANCIAL STATEMENTS

CHIMERIX, INC.

CONSOLIDATED BALANCE SHEETS

(in thousands, except share and per share data)

(unaudited)

	June 30, 2018	December 31, 2017
ASSETS		
Current assets:		
Cash and cash equivalents	\$27,447	\$18,548
Short-term investments, available-for-sale	147,316	132,972
Accounts receivable	219	1,682
Prepaid expenses and other current assets	3,329	3,331
Total current assets	178,311	156,533
Long-term investments	21,115	76,731
Property and equipment, net of accumulated depreciation	1,502	1,894
Other long-term assets	52	72
Total assets	\$200,980	\$235,230
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities:		
Accounts payable	\$1,426	\$3,812
Accrued liabilities	7,976	9,384
Total current liabilities	9,402	13,196
Lease-related obligations	185	224
Total liabilities	9,587	13,420
Stockholders' equity:		
Preferred stock, \$0.001 par value, 10,000,000 shares authorized at June 30, 2018 and December 31, 2017; no shares issued and outstanding as of June 30, 2018 and December 31, 2017	—	—
Common stock, \$0.001 par value, 200,000,000 shares authorized at June 30, 2018 and December 31, 2017; 47,855,025 and 47,505,532 shares issued and outstanding as of June 30, 2018 and December 31, 2017, respectively	48	47
Additional paid-in capital	717,414	709,514
Accumulated other comprehensive loss, net	(842)	(963)
Accumulated deficit	(525,227)	(486,788)
Total stockholders' equity	191,393	221,810
Total liabilities and stockholders' equity	\$200,980	\$235,230

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

CHIMERIX, INC.

CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE LOSS

(in thousands, except share and per share data)

(unaudited)

	Three Months Ended		Six Months Ended	
	June 30,		June 30,	
	2018	2017	2018	2017
Contract revenue	\$1,193	\$675	\$1,983	\$1,753
Operating expenses:				
Research and development	13,712	11,636	28,071	24,378
General and administrative	6,650	6,284	13,388	12,880
Total operating expenses	20,362	17,920	41,459	37,258
Loss from operations	(19,169)	(17,245)	(39,476)	(35,505)
Other (expense) income:				
Unrealized loss on equity investment	(78)	—	(212)	—
Interest income	634	565	1,249	1,071
Net loss	(18,613)	(16,680)	(38,439)	(34,434)
Other comprehensive loss:				
Unrealized gain (loss) on investments, net	225	(1,366)	122	(1,035)
Comprehensive loss	\$(18,388)	\$(18,046)	\$(38,317)	\$(35,469)
Per share information:				
Net loss, basic and diluted	\$(0.39)	\$(0.36)	\$(0.81)	\$(0.74)
Weighted-average shares outstanding, basic and diluted	47,811,552	46,863,753	47,725,209	46,719,367

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

CHIMERIX, INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS
(in thousands)
(unaudited)

	Six Months Ended June 30,	
	2018	2017
Cash flows from operating activities:		
Net loss	\$(38,439)	\$(34,434)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation of property and equipment	487	558
Amortization of premium/discount on investments	(171)) 72
Share-based compensation	7,427	8,260
Unrealized loss on equity investment	212	—
Amortization of lease-related obligations	(24)) (163)
Changes in operating assets and liabilities:		
Accounts receivable	1,463	1,599
Prepaid expenses and other assets	24	(300)
Accounts payable and accrued liabilities	(3,529)) (2,217)
Net cash used in operating activities	(32,550)) (26,625)
Cash flows from investing activities:		
Purchases of property and equipment	(96)) (21)
Purchases of short-term investments	(18,117)) —
Purchases of long-term investments	(6,031)) (121,908)
Proceeds from sales of short-term investments	22,000	—
Proceeds from maturities of short-term investments	43,500	120,485
Net cash provided by (used in) investing activities	41,256	(1,444)
Cash flows from financing activities:		
Proceeds from exercise of stock options	115	111
Proceeds from employee stock purchase plan	358	386
Payments of deferred offering costs	(280)) —
Net cash provided by financing activities	193	497
Net increase (decrease) in cash and cash equivalents	8,899	(27,572)
Cash and cash equivalents:		
Beginning of period	18,548	51,463
End of period	\$27,447	\$23,891

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

CHIMERIX, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS
(unaudited)

Note 1. The Business and Summary of Significant Accounting Policies

Description of Business

Chimerix, Inc. (the Company) is a biopharmaceutical company committed to discovering, developing and commercializing medicines that improve outcomes for immunocompromised patients. The Company was founded in 2000 based on the promise of our proprietary lipid conjugate technology to unlock the potential of some of the most broad-spectrum antivirals by enhancing their antiviral activity and safety profiles in convenient dosing regimens. The Company's lead compound, brincidofovir, is in development as an oral and intravenous (IV) formulation for the prevention and treatment of DNA viruses, including smallpox, adenoviruses, and the human herpesviruses. The Company is in clinical development of CMX521, the first clinical-stage direct-acting antiviral specifically for the treatment and prevention of norovirus. In addition, the Company has an active discovery program focusing on viral targets for which limited or no therapies are currently available.

Basis of Presentation

The accompanying unaudited consolidated financial statements include the accounts of the Company and its wholly owned subsidiary. The accompanying unaudited consolidated financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America (GAAP) for interim financial information, the instructions to Form 10-Q and Article 10 of Regulation S-X. Accordingly, they do not include all of the information and footnotes required by GAAP for complete financial statements and should be read in conjunction with the Company's audited financial statements and notes thereto included in its Annual Report on Form 10-K for the year ended December 31, 2017. In the opinion of the Company's management, all adjustments, consisting of normal recurring adjustments, necessary for a fair presentation of its financial position, operating results and cash flows for the periods presented have been included. Operating results for the three and six months ended June 30, 2018 are not necessarily indicative of the results that may be expected for the full year, for any other interim period or for any future year.

Fair Value of Financial Instruments

The carrying amounts of certain financial instruments, including accounts receivable, accounts payable and accrued expenses approximate their fair values due to the short-term nature of such instruments.

For assets and liabilities recorded at fair value, it is the Company's policy to maximize the use of observable inputs and minimize the use of unobservable inputs when developing fair value measurements, in accordance with the fair value hierarchy. Fair value measurements for assets and liabilities where there exists limited or no observable market data are based primarily upon estimates and are often calculated based on the economic and competitive environment, the characteristics of the asset or liability and other factors. Therefore, fair value measurements cannot be determined with precision and may not be realized in an actual sale or immediate settlement of the asset or liability. Additionally, there may be inherent weaknesses in any calculation technique and changes in the underlying assumptions used, including discount rates and estimates of future cash flows, could significantly affect the calculated current or future fair values. The Company utilizes fair value measurements to record fair value adjustments to certain assets and liabilities and to determine fair value disclosures.

The Company groups assets and liabilities at fair value in three levels, based on the markets in which the assets and liabilities are traded and the reliability of the assumptions used to determine fair value. An adjustment to the pricing method used within either Level 1 or Level 2 inputs could generate a fair value measurement that effectively falls in a lower level in the hierarchy. These levels are:

Level 1 — Valuations based on unadjusted quoted prices in active markets for identical assets or liabilities that the Company has the ability to access.

Level 2 — Valuations based on quoted prices for similar assets or liabilities in active markets, quoted prices for identical or similar assets or liabilities in markets that are not active, and models for which all significant inputs are observable, either directly or indirectly.

Level 3 — Valuations based on inputs that are unobservable and significant to the overall fair value measurement.

The determination of where an asset or liability falls in the hierarchy requires significant judgment. The Company evaluates hierarchy disclosures and, based on various factors, it is possible that an asset or liability may be classified differently from period

to period. However, the Company expects that changes in classification between levels will be rare. There were no transfers between Level 1 and Level 2 and no transfers to or from Level 3 during the six months ended June 30, 2018.

At June 30, 2018 and December 31, 2017, the Company had cash equivalents consisting of money market accounts and short-term investments and long-term investments consisting of U.S. Treasury securities, whose value is based on using quoted market prices. Accordingly, these securities are classified as Level 1.

At June 30, 2018 and December 31, 2017, the Company had short-term investments consisting of stock of an U.S. corporation. The Company's investment in ContraVir Pharmaceuticals (ContraVir) common stock was categorized as a Level 1 asset and value based on ContraVir's common stock value at June 30, 2018 and December 31, 2017. For the three and six months ended June 30, 2018, the Company recorded \$0.1 million and \$0.2 million, respectively, of unrealized loss to unrealized loss on equity investment in the Consolidated Statements of Operations and Comprehensive Loss related to the Company's investment in ContraVir common stock. For the three and six months ended June 30, 2017, the Company recorded \$1.3 million and \$0.7 million of unrealized loss to unrealized (loss) gain on investments, net in the Consolidated Statements of Operations and Comprehensive Loss related to the Company's investment in ContraVir common stock.

At June 30, 2018 and December 31, 2017, the Company had cash equivalents consisting of commercial paper, and at June 30, 2018, the Company had short-term investments, consisting of corporate bonds and commercial paper. As quoted prices are not available for these securities, they are valued using independent pricing models or other model-based valuation techniques such as the present value of future cash flows, adjusted for the security's credit rating, prepayment assumptions and other factors such as credit loss assumptions. Accordingly, these securities are classified as Level 2.

There was no material re-measurement to fair value of financial assets and liabilities that are not measured at fair value on a recurring basis. For additional information regarding the Company's investments, please refer to Note 2, "Investments."

Below are tables that present information about certain assets measured at fair value on a recurring basis (in thousands):

	Fair Value Measurements June 30, 2018			
	Total	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Cash equivalents				
Money market funds	\$14,905	\$ 14,905	\$ —	\$ —
Commercial paper	9,480	—	9,480	—
Total cash equivalents	24,385	14,905	9,480	—
Short-term investments				
Corporate bonds	3,982	—	3,982	—
Commercial paper	4,193	—	4,193	—
U.S. treasury securities	138,967	138,967	—	—
Common stock of U.S. corporation	174	174	—	—
Total short-term investments	147,316	139,141	8,175	—
Long-term investments				
U.S. treasury securities	21,115	21,115	—	—
Total long-term investments	21,115	21,115	—	—
Total	\$192,816	\$ 175,161	\$ 17,655	\$ —
Fair Value Measurements December 31, 2017				
	Total	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Cash equivalents				
Money market funds	\$10,816	\$ 10,816	\$ —	\$ —
Commercial paper	3,995	—	3,995	—
Total cash equivalents	14,811	10,816	3,995	—
Short-term investments				
U.S. treasury securities	132,586	132,586	—	—
Common stock of U.S. corporation	386	386	—	—
Total short-term investments	132,972	132,972	—	—
Long-term investments				
U.S. treasury securities	76,731	76,731	—	—
Total long-term investments	76,731	76,731	—	—
Total	\$224,514	\$ 220,519	\$ 3,995	\$ —

Accrued Liabilities

Accrued liabilities consisted of the following (in thousands):

	June 30, 2018	December 31, 2017
Accrued research and development expenses	\$5,123	\$ 3,384
Accrued compensation	1,562	3,678
Other accrued liabilities	1,291	1,322
Accrued indemnification claim	—	1,000
Total accrued liabilities	\$7,976	\$ 9,384

Revenue Recognition

Policy

The Company's revenues generally consist of (i) contract revenue - revenue generated under federal contracts, and (ii) collaboration and licensing revenue - revenue related to non-refundable upfront fees, royalties and milestone payments earned under license agreements. Revenue is recognized in accordance with the criteria outlined in Accounting Standards Codification (ASC) 606 issued by the Financial Accounting Standards Board (FASB). Following this accounting pronouncement, a five-step approach is applied for recognizing revenue, including (1) identify the contract with a customer; (2) identify the performance obligations in the contract; (3) determine the transaction price; (4) allocate the transaction price to the performance obligations in the contract; and (5) recognize revenue when, or as, the entity satisfies a performance obligation.

Biomedical Advanced Research and Development Authority (BARDA)

In February 2011, the Company entered into a contract with BARDA for the advanced development of brincidofovir as a medical countermeasure in the event of a smallpox release. Under the contract, the Company may receive up to \$75.8 million in expense reimbursement and \$5.3 million in fees over the performance of 1 base segment and 4 option segments. Exercise of each option segment is solely at the discretion of BARDA. Currently, option segments 1 through 3 have been exercised. The Company assessed the services in accordance with the authoritative guidance and concluded that there is a potential of 5 separate contracts (1 base segment and 4 option segments) within this agreement, each of which has a single performance obligation. The transaction price for each segment, based on the transaction price as defined in each segment contract, is allocated to the single performance obligation for each contract. The transaction price is recognized over time by measuring the progress toward complete satisfaction of the performance obligation. The progress toward complete satisfaction is estimated based on the costs incurred to date relative to the total estimated costs per the terms of each contract. The Company typically invoices BARDA monthly as costs are incurred. As such, the Company does not disclose the value of unsatisfied performance obligations for contracts for which the Company recognizes revenue at the amount to which the Company has a right to invoice. The base segment and first option segment were completed prior to adoption of ASC 606. The Company is currently performing under the second and third option segments of the contract during which the Company may receive up to a total of \$21.6 million and \$14.1 million in expense reimbursement and fees, respectively. The second option segment is scheduled to end on September 30, 2018 and the third option segment is scheduled to end on March 30, 2019.

ContraVir Pharmaceuticals

The Company entered into a license agreement with ContraVir on December 17, 2014 for the development and commercialization of CMX157 for certain antiviral indications. The Company is eligible to receive up to

approximately \$20 million in clinical, regulatory and initial commercial milestones as well as royalties and additional milestones based on commercial sales. The Company assessed the agreement in accordance with the authoritative guidance and concluded that the ContraVir contract includes multiple performance obligations, which had all been satisfied in 2015 prior to the adoption of ASC 606. The ContraVir contract has one fixed and several variable transaction amounts. The fixed fee portion of the contract was for the license to CMX157 rights. The Company recognized revenue for the fixed fee portion of the contract in 2015 when the performance obligations were satisfied. All variable transaction amounts, which relate to clinical, regulatory and commercial milestones as well as royalties and milestones based on commercial sales, are fully constrained. The Company will begin recognizing revenue on the variable transaction amounts when those transaction amounts are no longer fully constrained.

Research and Development Prepaids and Accruals

As part of the process of preparing financial statements, the Company is required to estimate its expenses resulting from its

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obligation under contracts with vendors and consultants and clinical site agreements in connection with its research and development efforts. The financial terms of these contracts are subject to negotiations which vary contract to contract and may result in payment flows that do not match the periods over which materials or services are provided to the Company under such contracts.

The Company's objective is to reflect the appropriate research and development expenses in its financial statements by matching those expenses with the period in which services and efforts are expended. The Company accounts for these expenses according to the progress of its research and development efforts. The Company determines prepaid and accrual estimates through discussion with applicable personnel and outside service providers as to the progress or state of communication of clinical trials, or other services completed. The Company adjusts its rate of research and development expense recognition if actual results differ from its estimates. The Company makes estimates of its prepaid and accrued expenses as of each balance sheet date in its financial statements based on facts and circumstances known at that time. Although the Company does not expect its estimates to be materially different from amounts actually incurred, its understanding of status and timing of services performed relative to the actual status and timing of services performed may vary and may result in the Company reporting amounts that are too high or too low for any particular period. Through June 30, 2018, there had been no material adjustments to the Company's prior period estimates of prepaid and accruals for research and development expenses. The Company's research and development prepaids and accruals are dependent upon the timely and accurate reporting of contract research organizations and other third-party vendors.

Basic and Diluted Net Loss Per Share of Common Stock

Basic net loss per share of common stock is computed by dividing net loss by the weighted-average number of shares of common stock outstanding during the period, excluding the dilutive effects of warrants to purchase common stock, non-vested restricted stock, stock options, and employee stock purchase plan purchase rights. Diluted net loss per share of common stock is computed by dividing net loss by the sum of the weighted-average number of shares of common stock outstanding during the period plus the potential dilutive effects of warrants to purchase common stock, non-vested restricted stock, stock options, and employee stock purchase plan purchase rights outstanding during the period calculated in accordance with the treasury stock method, but are excluded if their effect is anti-dilutive. Because the impact of these items is anti-dilutive during the periods of net loss, there was no difference between basic and diluted loss per share of common stock for the three and six months ended June 30, 2018 and 2017.

Impact of Recently Issued Accounting Standards

In February 2016, the FASB issued Accounting Standards Update (ASU) No. 2016-02, "Leases (Topic 842)", which increases transparency and comparability among companies accounting for lease transactions. The most significant change of this update will require the recognition of lease assets and liabilities on the balance sheet for lessees for operating lease arrangements with lease terms greater than 12 months. This update will require a modified retrospective application which includes a number of optional practical expedients related to the identification and classification of leases commenced before the effective date. This ASU is effective for financial statements issued for annual periods and interim periods within those annual periods, beginning after December 15, 2018. The Company is currently analyzing the impact of the adoption of ASU No. 2016-02 on its consolidated financial statements.

Impact of Recently Adopted Accounting Standards

In May 2014, the FASB issued ASU No. 2014-09, "Revenue from Contracts with Customers (Topic 606)." The ASU establishes a principles-based approach for accounting for revenue arising from contracts with customers and supersedes existing revenue recognition guidance. The ASU provides that an entity should apply a five-step approach for recognizing revenue, including (1) identify the contract with a customer; (2) identify the performance obligations

in the contract; (3) determine the transaction price; (4) allocate the transaction price to the performance obligations in the contract; and (5) recognize revenue when, or as, the entity satisfies a performance obligation. Also, the entity must provide various disclosures concerning the nature, amount and timing of revenue and cash flows arising from contracts with customers. The FASB has issued several updates to the standard which (1) deferred the original effective date to annual periods and interim periods within those annual periods beginning after December 15, 2017, while allowing for early adoption as of January 1, 2017 (ASU 2015-14); (2) clarify the application of the principal versus agent guidance (ASU 2016-08); and (3) clarify the guidance on inconsequential and perfunctory promises and licensing (ASU 2016-10). The Company adopted ASC 606 as of January 1, 2018 using the full retrospective approach and determined that there was no impact on its financial statements. In preparation for adoption of the standard, the Company has implemented internal controls to enable the preparation of financial information, including the assessment of the impact of the standard.

In January 2016, the FASB issued ASU No. 2016-01, “Financial Instruments-Overall (Subtopic 825-10)-Recognition and Measurement of Financial Assets and Financial Liabilities.” The new standard enhances reporting for financial instruments. The ASU is effective for financial statements issued for annual periods and interim periods within those annual periods beginning after

December 15, 2017. The Company adopted ASU No. 2016-01 on January 1, 2018 on a prospective basis. As a result of this standard, changes in fair value of available-for-sale equity securities that were previously recognized in other comprehensive income are now recognized in earnings. As of January 1, 2018, the Company had no unrealized gains or losses in other comprehensive income that had to be reclassified to retained earnings.

Note 2. Investments

The following tables summarize the Company's short-term and long-term debt investments (in thousands):

	June 30, 2018			
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value
Corporate bonds	\$3,985	\$ —	\$ (3)	\$3,982
U.S. treasury securities	160,916	1	(835)	160,082
Commercial paper	4,198	—	(5)	4,193
Total investments	\$169,099	\$ 1	\$ (843)	\$168,257

	December 31, 2017			
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value
U.S. treasury securities	\$210,280	\$ —	\$ (963)	\$209,317
Total investments	\$210,280	\$ —	\$ (963)	\$209,317

The following tables summarize the Company's debt investments with unrealized losses, aggregated by investment type and the length of time that individual investments have been in a continuous unrealized loss position (in thousands, except number of securities):

	June 30, 2018					
	Less than 12 Months		Greater than 12 Months		Total	
	Fair Value	Unrealized Loss	Fair Value	Unrealized Loss	Fair Value	Unrealized Loss
Corporate bonds	\$3,982	\$ (3)	\$—	\$ —	\$3,982	\$ (3)
Commercial paper	4,193	(5)	—	—	4,193	(5)
U.S. treasury securities	59,372	(467)	92,744	(368)	152,116	(835)
Total	\$67,547	\$ (475)	\$92,744	\$ (368)	\$160,291	\$ (843)
Number of securities with unrealized losses		18		20		38

	December 31, 2017					
	Less than 12 Months		Greater than 12 Months		Total	
	Fair Value	Unrealized Loss	Fair Value	Unrealized Loss	Fair Value	Unrealized Loss
U.S. treasury securities	\$170,390	\$ (871)	\$38,927	\$ (92)	\$209,317	\$ (963)
Total	\$170,390	\$ (871)	\$38,927	\$ (92)	\$209,317	\$ (963)
Number of securities with unrealized losses		39		7		46

The Company periodically reviews available-for-sale securities for other-than-temporary declines in fair value below the cost basis and whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. The Company evaluates, among other things, the duration and extent to which the fair value of a security is less than its cost; the financial condition of the issuer and any changes thereto; and the Company's intent to sell, or whether it will more likely than not

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be required to sell, the security before recovery of its cost basis. At June 30, 2018, the Company did not intend to sell, and was not more likely than not to be required to sell, the available-for-sale debt securities in an unrealized loss position before recovery of the cost basis of the securities, which may be at maturity. There were no such declines in value for the three and six months ended June 30, 2018 and 2017. Unrealized gains and losses on debt investments are recorded to unrealized gain (loss) on investments, net in the Consolidated Statements of Operations and Comprehensive Loss. The Company recognizes interest income on an accrual basis in interest income in the Consolidated Statements of Operations and Comprehensive Loss.

The following table summarizes the scheduled maturity for the Company's debt investments at June 30, 2018 (in thousands):

Maturing in one year or less	\$	147,142
Maturing after one year through two years	21,115	
Total debt investments	168,257	
Common stock of U.S. corporation	174	
Total investments	\$	168,431

Note 3. Commitments and Contingencies

Leases

The Company leases its facilities and certain office equipment under long-term non-cancelable operating leases that expire at various dates through 2021. Rent expense under non-cancelable operating leases and other month-to-month equipment rental agreements, including common area maintenance fees, totaled approximately \$0.2 million and \$0.1 million for the three months ended June 30, 2018 and 2017, respectively, and \$0.4 million and \$0.2 million for the six months ended June 30, 2018 and 2017, respectively.

Significance of Revenue Source

The Company is the recipient of federal research contract funds from BARDA, the sole source of the Company's contract revenue. Periodic audits are required under the Company's BARDA agreement and certain costs may be questioned as appropriate under the BARDA agreement. Management believes that such amounts in the current year, if any, are not significant. Accordingly, no provision for refundable amounts under the BARDA agreement had been made as of June 30, 2018 and December 31, 2017.

Note 4. Equity Transactions and Share-based Compensation

Warrants

During the three and six months ended June 30, 2018, there were no exercises of warrants for the purchase of shares of the Company's common stock. All remaining outstanding warrants expired in February 2018. As of June 30, 2018 no warrants were outstanding.

Stock Options

In connection with the Company's IPO, the Company adopted the 2013 Equity Incentive Plan (the 2013 Plan). The 2013 Plan provides for the grant of incentive stock options (ISOs), non-statutory stock options (NSOs), stock appreciation rights, restricted stock awards, restricted stock unit (RSU) awards, performance-based stock awards, and other forms of equity compensation (collectively, stock awards), all of which may be granted to employees, including officers, non-employee directors and consultants of the Company and its affiliates. Additionally, the 2013 Plan provides for the grant of performance cash awards. The number of shares of common stock reserved for future issuance automatically increases on January 1 of each calendar year by 4% of the total number of shares of capital stock outstanding on December 31 of the preceding calendar year, or a lesser number of shares determined by the Company's board of directors. On January 1, 2018, the common stock reserved for issuance under the 2013 Plan was automatically increased by 1.9 million shares. As of June 30, 2018, there was a total of 1.2 million shares reserved for future issuance under the 2013 Plan. The Company issued approximately 15,000 and 29,000 shares of common stock pursuant to the exercise of stock options during the three and six months ended June 30, 2018, respectively.

Employee Stock Purchase Plan

In February 2013, the Company's board of directors adopted the 2013 Employee Stock Purchase Plan (ESPP), which was

subsequently ratified by stockholders and became effective in April 2013. Initially, the ESPP authorized the issuance of 704,225 shares of common stock pursuant to purchase rights granted to the Company's employees or to employees of any of its designated affiliates. The number of shares of common stock reserved for issuance automatically increases on January 1 of each calendar year, from January 1, 2014 through January 1, 2023 by the lesser of (a) 1% of the total number of shares of common stock outstanding on December 31 of the preceding calendar year, (b) 422,535 shares, or (c) a number determined by the Company's board of directors that is less than (a) and (b). On January 1, 2018, the common stock reserved for issuance under the ESPP was automatically increased by an additional 0.4 million shares.

The Company has reserved a total of 2.6 million shares of common stock to be purchased under the ESPP, of which 2.2 million shares remained available for purchase as of June 30, 2018. The ESPP provides for an automatic reset feature to start participants on a new twenty-four month participation period in the event that the common stock market value on a purchase date is less than the common stock value on the first day of the twenty-four month offering period. Eligible employees may authorize an amount up to 15% of their salary to purchase common stock at the lower of a 15% discount to the beginning price of their offering period or a 15% discount to the ending price of each six-month purchase interval. The Company issued no shares of common stock pursuant to the ESPP during the three months ended June 30, 2018. The Company issued approximately 87,000 shares of common stock pursuant to the ESPP for the six months ended June 30, 2018. Compensation expense for shares purchased under the ESPP related to the purchase discount and the "look-back" option and were determined using a Black-Scholes option pricing model.

Restricted Stock Units

The Company has issued RSUs to certain employees which vest based on service criteria. When vested, the RSU represents the right to be issued the number of shares of the Company's common stock that is equal to the number of RSUs granted. The grant date fair value for RSUs is based upon the market price of the Company's common stock on the date of the grant. The fair value is then amortized to compensation expense over the requisite service period or vesting term. The Company issued 86,000 and 233,000 shares of common stock pursuant to the vesting of RSUs during the three and six months ended June 30, 2018, respectively.

In January 2017, the Company also granted performance-based RSUs which, when vested, represent the right to be issued the number of shares of the Company's common stock that is equal to the number of RSUs granted. The grant date fair value for performance-based RSUs is based upon the market price of the Company's common stock on the date of the grant. For the portion of the performance-based RSUs of which the achievement of the performance condition is considered probable, the Company recognizes stock-based compensation expense on the related estimated fair value of such RSUs ratably for each vesting tranche from the service inception date to the end of the requisite service period. For the performance conditions that are not considered probable of achievement at the grant date or upon quarterly re-evaluation, prior to the event actually occurring, the Company begins recognizing the related stock-based compensation expense ratably when the event occurs or when the Company can determine that achievement of the performance condition is probable. In those cases, the Company recognizes the change in estimate at the time it determines the performance condition is probable of achievement (by recognizing stock-based compensation expense as cumulative catch-up adjustment as if the Company had estimated at the grant date that the performance condition would have been achieved) and recognize the remaining compensation cost through the end of the requisite service period. The Company issued no shares of common stock pursuant to the vesting of performance-based RSUs during the three and six months ended June 30, 2018.

For awards with only service conditions and graded-vesting features, the Company recognizes compensation expense on a straight-line basis over the requisite service period. Total share-based compensation expense recognized related to stock options, the ESPP and RSUs was as follows (in thousands):

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	Three Months		Six Months	
	Ended June 30,		Ended June 30,	
	2018	2017	2018	2017
Research and development expense	\$1,536	\$1,852	\$2,856	\$3,615
General and administrative expense	2,500	2,381	4,571	4,645
Total share-based compensation expense	\$4,036	\$4,233	\$7,427	\$8,260

At-The-Market Equity Offering

On November 8, 2017, the Company entered into an at-the-market (ATM) sales agreement with Cowen and Company, LLC to sell up to \$75.0 million of the Company's common stock under a shelf registration statement filed in November 2017. In July 2018, the Company began selling shares of common stock through this ATM sales agreement. As of August 2, 2018, the Company had sold an aggregate of 174 thousand shares of common stock at a weighted average price per share of \$4.72 for net offering

proceeds of \$0.8 million.

Note 5. Income Taxes

The Company estimates an annual effective tax rate of 0% for the year ending December 31, 2018 as the Company incurred losses for the six month period ended June 30, 2018 and is forecasting additional losses through the fourth quarter, resulting in an estimated net loss for both financial statement and tax purposes for the year ending December 31, 2018. Therefore, no federal or state income taxes are expected and none have been recorded at this time. Income taxes have been accounted for using the liability method in accordance with FASB ASC 740.

Due to the Company's history of losses since inception, there is not enough evidence at this time to support that the Company will generate future income of a sufficient amount and nature to utilize the benefits of its net deferred tax assets. Accordingly, the deferred tax assets have been reduced by a full valuation allowance, since the Company does not currently believe that realization of its deferred tax assets is more likely than not.

At June 30, 2018, the Company had no unrecognized tax benefits that would reduce the Company's effective tax rate if recognized.

At June 30, 2018, the Company's accounting for the 2017 Tax Cuts and Jobs Act is incomplete; however, it expects to complete the accounting by December 31, 2018. As discussed in our 2017 Annual Report on Form 10-K, the Company recorded provisional adjustments related to deferred taxes for stock compensation and the deferred rate change. The Company is continuing to evaluate the impact of the recently enacted tax law on its business and consolidated financial statements. For the second quarter of 2018, the Company has not made any measurement-period adjustments related to these provisional items. Updates to the Company's calculations may result in changes to the provisional adjustments recorded at December 31, 2017.

Note 6. Significant Agreements

The Regents of the University of California

In May 2002, the Company entered into a license agreement with The Regents of the University of California (UC) under which the Company obtained an exclusive, worldwide license to UC's patent rights in certain inventions (the UC Patent Rights) related to lipid-conjugated antiviral compounds and their use, including certain patents relating to brincidofovir. The license agreement was amended in September 2002 in order to expand the scope of the license and again in December 2010 in order to modify certain financial terms. The agreement was amended a third time in September 2011 to add additional patents related to certain metabolically stable lipid-conjugate compounds. In April 2018, a fifth amendment was executed to alter the rights and obligations of the parties in light of the Company's current business plans and to extend the term of the agreement to the later of the longest-lived Patent Rights (as defined in the agreement) or May 2028.

Under the license agreement, the Company is permitted to research, develop, manufacture and commercialize products utilizing the UC Patent Rights for all human and veterinary uses, and to sublicense such rights. UC retained the right, on behalf of itself and other non-profit institutions, to use the UC Patent Rights for educational and research purposes and to publish information about the UC Patent Rights.

In consideration for the rights granted under the license agreement, the Company has issued UC an aggregate of 64,788 shares of common stock. As additional consideration, the Company is required to pay certain cash milestone payments in connection with the development and commercialization of compounds that are covered by the UC Patent Rights, plus certain annual fees to maintain such patents until the Company commercializes a product utilizing UC

Patent Rights. In connection with the development and commercialization of brincidofovir and CMX157, the Company could be required to pay UC up to an aggregate of \$3.4 million in milestone payments, assuming the achievement of all applicable milestone events under the license agreement. In addition, upon commercialization of any product utilizing the UC Patent Rights (which would include the commercialization of brincidofovir), the Company will be required to pay low single digit royalties on net sales of such product.

The license agreement requires that we diligently develop, manufacture and commercialize compounds that are covered by the UC Patent Rights, and we have agreed to meet certain development and commercialization milestones. UC may, at its option, either terminate the license agreement or change the license granted from an exclusive license to a non-exclusive license if we fail to meet such development and commercialization milestones. We are currently in compliance with these milestone requirements.

In the event the Company sublicenses a UC Patent Right (including UC Patent Rights relating to brincidofovir or CMX157) the Company is obligated to pay to UC a fee, which amount will vary depending upon the amount of any payments the Company receives and the clinical development stage of the compound being sublicensed, but which could be up to approximately 50% of

the sublicense fee in certain circumstances. With respect to brincidofovir, the fee payable to UC will not exceed 5% of the sublicense fee. In addition, the Company will also be required to pay to UC a low single digit sublicense royalty on net sales of products that use the sublicensed UC Patent Rights, but in no event will the Company be required to pay more than 50% of the royalties it receives in connection with the relevant sublicense. Any such royalty payment will be reduced by other payments the Company is required to make to third parties until a minimum royalty has been reached.

Biomedical Advanced Research and Development Authority (BARDA)

In February 2011, the Company entered into a contract with BARDA for the advanced development of brincidofovir as a medical countermeasure in the event of a smallpox release. Under the contract, BARDA will reimburse the Company, plus pay a fixed fee, for the research and development of brincidofovir as a broad-spectrum therapeutic antiviral for the treatment of smallpox infections. The contract consists of an initial performance period, referred to as the base performance segment, plus up to four extension periods, referred to as option segments, each of which may be exercised at BARDA's sole discretion. The Company must complete the agreed upon milestones and deliverables in each discrete work segment before the next option segment is eligible to be exercised. Under the contract as currently in effect, the Company may receive up to \$75.8 million in expense reimbursement and \$5.3 million in fees.

The Company is currently performing under the second and third option segments of the contract during which the Company may receive up to a total of \$21.6 million and \$14.1 million in expense reimbursement and fees, respectively. The second option segment is scheduled to end on September 30, 2018 and the third option segment is scheduled to end on March 30, 2019. For the three months ended June 30, 2018 and 2017, the Company recognized revenue under this contract of \$1.2 million and \$0.7 million, respectively, and for the six months ended June 30, 2018 and 2017, the Company recognized revenue under this contract of \$2.0 million and \$1.8 million, respectively.

ContraVir Pharmaceuticals

On December 17, 2014, the Company entered into a license agreement with ContraVir Pharmaceuticals (NASDAQ:CTRV) for the development and commercialization of CMX157 for certain antiviral indications. Under the terms of the agreement, ContraVir has sole responsibility with respect to the control of the development and commercialization of CMX157.

In exchange for the license to CMX157 rights, the Company received ContraVir Series B Convertible Preferred Stock which the Company converted into shares of ContraVir common stock in 2016. As of June 30, 2018 and December 31, 2017, the fair value of the investment was recorded as a short-term investment of \$0.2 million and \$0.4 million, respectively.

In addition, the Company is eligible to receive up to approximately \$20 million in clinical, regulatory and initial commercial milestones in the United States and Europe, as well as royalties and additional milestones based on commercial sales in those territories. Either party may terminate the license agreement upon the occurrence of a material breach by the other party (subject to standard cure periods), or upon certain events involving the bankruptcy or insolvency of the other party. ContraVir may also terminate the license agreement without cause on a country-by-country basis upon sixty days' prior written notice.

University of Michigan

In 2006, the Company entered into a license agreement with The Regents of the University of Michigan (UM) under which the Company obtained an exclusive, worldwide license to UM's patent rights in certain inventions (UM Patent Rights) related to certain compounds originally synthesized at UM. Under the license agreement, the Company is

permitted to research, develop, manufacture and commercialize products utilizing the UM Patent Rights, and to sublicense such rights subject to certain sublicensing fees and royalty payments. The agreement was amended in 2016.

In connection with the Company's commercialization or sublicensing of certain products covered by the license agreement, including CMX521, the Company could be required to pay royalties on net sales of such products ranging from 0.25% to 2%. Beginning in 2024, the Company is also subject to certain minimum annual royalty payments.

The UM license agreement requires that the Company uses commercially reasonable efforts to develop and make commercially available licensed products as soon as practicable. Specifically, the Company has agreed to make the first commercial sale of a licensed product by June of 2026. UM may terminate the license agreement if the Company materially breaches the license agreement. The Company is currently in compliance with its milestone requirements.

Note 7. Subsequent Events

The Company has evaluated subsequent events through the issuance date of these financial statements to ensure that this filing includes appropriate disclosure of events both recognized in the financial statements as of June 30, 2018, and events which occurred subsequently but were not recognized in the financial statements.

ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with our unaudited consolidated financial statements and related notes included in this Quarterly Report on Form 10-Q and the audited financial statements and notes thereto as of and for the year ended December 31, 2017 and the related Management's Discussion and Analysis of Financial Condition and Results of Operations, both of which are contained in our Annual Report on Form 10-K for the year ended December 31, 2017, filed with the Securities and Exchange Commission (SEC) on March 1, 2018. Past operating results are not necessarily indicative of results that may occur in future periods.

Forward-Looking Statements

The information in this discussion contains forward-looking statements and information within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, or the Exchange Act, which are subject to the "safe harbor" created by those sections. These forward-looking statements include, but are not limited to, statements concerning our strategy, future operations, future financial position, future revenues, projected costs, prospects and plans and objectives of management. The words "anticipates," "believes," "estimates," "expects," "intends," "may," "plans," "projects," "will," "would" and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. We may not actually achieve the plans, intentions or expectations disclosed in our forward-looking statements and you should not place undue reliance on our forward-looking statements. Actual results or events could differ materially from the plans, intentions and expectations disclosed in the forward-looking statements that we make. These forward-looking statements involve risks and uncertainties that could cause our actual results to differ materially from those in the forward-looking statements, including, without limitation, the risks set forth in Part II, Item IA, "Risk Factors" in this Quarterly Report on Form 10-Q and in our other filings with the SEC. The forward-looking statements are applicable only as of the date on which they are made, and we do not assume any obligation to update any forward-looking statements.

OVERVIEW

Chimerix, Inc. is a biopharmaceutical company committed to discovering, developing and commercializing medicines that improve outcomes for immunocompromised patients. We were founded in 2000 based on the promise of our proprietary lipid conjugate technology to unlock the potential of some of the most broad-spectrum antivirals by enhancing their antiviral activity and safety profiles in convenient dosing regimens. Our lead compound, brincidofovir (BCV), is in development as an oral and intravenous (IV) formulation for the prevention and treatment of DNA viruses, including smallpox, adenoviruses, and the human herpesviruses. The Company is in clinical development of CMX521, the first clinical-stage direct-acting antiviral specifically for the treatment and prevention of norovirus. In addition, we have an active discovery program focusing on viral targets for which limited or no therapies are currently available.

Recent Developments

AdAPT Study of Oral Brincidofovir

The AdAPT study (Adenovirus after Allogeneic Pediatric Transplantation) is open for enrollment in the United States, the United Kingdom, and in Europe. Four of nine planned countries are currently undergoing regulatory or central ethics review; additional sites in the United States, United Kingdom, and Europe are also in the process of opening for enrollment. This study is targeting enrollment of 141 pediatric allogeneic hematopoietic cell transplant (HCT) recipients with confirmed adenovirus (AdV) infection. In the study, subjects are randomized 2:1 to receive

short-course oral BCV or local standard-of-care (SOC) treatment.

The primary endpoint of the study is a comparison of AdV viral burden, as measured by the time-Averaged Area Under the Curve for AdV viremia over 16 weeks (AdV AAUC₀₋₁₆) in subjects treated with short-course oral BCV versus those who receive local SOC. The study is 90% powered to show the superiority of reduced AdV viral burden (i.e. lower AdV AAUC₀₋₁₆) in BCV-treated patients compared to local SOC. The study will also evaluate the correlation of AdV AAUC₀₋₁₆ with clinical outcomes, including survival. A strong correlation between AdV viral burden and mortality was described in data collected from the AdVance study. In this study, patients with the highest AdV AAUC₀₋₁₆ had the highest observed mortality. In addition, across the pediatric patients with AdV viremia, each 1.0 log₁₀ increase in AdV AAUC₀₋₁₆ was associated with a two-fold increase in mortality. We anticipate that enrollment in AdAPT will be completed in 2019; we intend to update this forecast later in 2018 when we have several months of enrollment data from a majority of planned clinical centers.

Oral Treatment for Smallpox

In June 2018, we announced that the US Food and Drug Administration (FDA) granted Orphan Drug Designation for BCV for

the treatment of smallpox. The Orphan Drug Designation program provides orphan status to drugs and biologics which are defined as those intended for the safe and effective treatment, diagnosis or prevention of rare diseases and disorders that affect fewer than 200,000 people in the US. Orphan Drug Designation provides manufacturers with many benefits, including a waiver of the FDA Prescription Drug User Fee Act.

We are collaborating with the Biomedical Advanced Research and Development Authority (BARDA) for the development of BCV as a potential medical countermeasure for smallpox. Efficacy is to be demonstrated via two animal models under the FDA's Animal Rule. We are working with the FDA and BARDA on the design and conduct of these studies in both rabbit and mouse models of smallpox infection. We have recently agreed to a general study design for the rabbitpox study, which will be conducted roughly in parallel with the mouse study. Following completion of the animal efficacy studies, we plan to meet with the FDA to discuss any additional required data for a regulatory decision. We anticipate submitting marketing applications in early 2020.

IV Brincidofovir Progresses to Phase 2 Studies

We are opening sites in the United States, United Kingdom, and Europe for enrollment in our IV BCV Phase 2 studies in adult HCT recipients with AdV. We anticipate interim data to be available during the second half of 2018. These studies may also provide data on other viral infections such as cytomegalovirus (CMV) and/or BK virus (BKV) in patients with multi-viral infections. The studies will evaluate pharmacokinetics (PK) and tolerability of multiple doses of IV BCV in adult HCT recipients. We will also evaluate the relationship between BCV dose and observed change-from-baseline in AdV. Data are expected to inform the dose and dosing regimen for our Phase 2/3 Multi Viral Protection (MVP)-Peds study.

Following availability of data from adult patients in the studies described above, we will evaluate the potential for IV BCV to treat other DNA viral infections, such as BKV, CMV, or other herpesviruses such as HHV-6. In addition, the higher drug concentrations in the central nervous system (CNS) achieved with IV BCV in animals could support the study of IV BCV in viral CNS infections such as herpes encephalitis and JC virus infection.

CMX521 for Norovirus

CMX521, a nucleoside analog identified from our proprietary chemical library, is the first clinical-stage direct-acting antiviral specifically for the treatment and/or prevention of norovirus. Chronic norovirus infection is increasingly being diagnosed in immunocompromised patients. Approximately 15-20 percent of HCT and solid organ transplant (SOT) recipients are diagnosed with norovirus within the first 1-2 years after transplant, a diagnosis that has been associated with chronic diarrhea, electrolyte disturbances, and graft rejection.

In June 2018, we presented data on CMX521 at the 31st International Conference on Antiviral Research. The data presented included:

- CMX521 targets a conserved area of the norovirus, and has been tested against a broad panel of strains in vitro, and shows activity against all strains tested to date;
- CMX521 has a promising preclinical safety profile with no evidence of mitochondrial toxicity or genotoxicity; and
- oral administration of CMX521 should allow drug delivery directly to the cells in the gut targeted by norovirus.

Clinical testing of CMX521 is ongoing. We are conducting a Phase 1 study that is evaluating the PK, safety and tolerability of CMX521 in up to 50 healthy adult subjects. The first presentation of clinical data for this study will be at the European Society for Clinical Virology in Athens, Greece in September 2018.

FINANCIAL OVERVIEW

Revenues

To date, we have not generated any revenue from product sales. All of our revenue to date has been derived from a government grant and contract and the receipt of up-front proceeds under our collaboration and license agreements.

In February 2011, we entered into a contract with BARDA, a U.S. governmental agency that supports the advanced research and development, manufacturing, acquisition, and stockpiling of medical countermeasures. The contract originally consisted of an initial performance period, referred to as the base performance segment, which ended on May 31, 2013, plus up to four extension periods, referred to as option segments. Subsequent option segments to the contract are not subject to automatic renewal and are not exercisable at our discretion. The contract is a cost plus fixed fee development contract. Under the contract as currently in effect, we may cumulatively receive up to \$75.8 million in expense reimbursement and \$5.3 million in fees if all remaining option segments are exercised. We are currently performing under the second and third option segments of the contract during which we

may receive up to a total of \$21.6 million and \$14.1 million in expense reimbursement and fees, respectively. The second option segment is scheduled to end on September 30, 2018 and the third option segment is scheduled to end on March 30, 2019. As of June 30, 2018, we had recognized revenue in aggregate of \$58.1 million with respect to the base performance segment and the first three extension periods. Under the BARDA contract, we recognized revenue of \$1.2 million and \$0.7 million during the three months ended June 30, 2018 and 2017, respectively, and we recognized revenue of \$2.0 million and \$1.8 million during the six months ended June 30, 2018 and 2017, respectively.

In the future, we may generate revenue from a combination of product sales, license fees, milestone payments and royalties from the sales of products developed under licenses of our intellectual property. We expect that any revenue we generate will fluctuate from quarter to quarter as a result of the timing and amount of license fees, milestone and other payments, and the amount and timing of payments that we receive upon the sale of our products, to the extent any are successfully commercialized. If we fail to complete the development of our product candidates in a timely manner or obtain regulatory approval for them, our ability to generate future revenue, and our results of operations and financial position, would be materially adversely affected.

Research and Development Expenses

Since our inception, we have focused our resources on our research and development activities, including conducting preclinical studies and clinical trials, manufacturing development efforts and activities related to regulatory filings for our product candidates. We recognize research and development expenses as they are incurred. Costs for certain development activities are recognized based on an evaluation of the progress to completion of specific tasks using information and data provided to us by our vendors. We cannot determine with certainty the duration and completion costs of the current or future clinical studies of our product candidates. Our research and development expenses consist primarily of:

- fees paid to consultants and contract research organizations (CROs), including in connection with our preclinical and clinical trials, and other related clinical trial fees, such as for investigator grants, patient screening, laboratory work, clinical trial database management, clinical trial material management and statistical compilation and analysis;
- salaries and related overhead expenses, which include stock option, restricted stock units and employee stock purchase program compensation and benefits, for personnel in research and development functions;
- payments to third-party manufacturers, which produce, test and package our drug substance and drug product (including continued testing of process validation and stability);
- costs related to legal and compliance with regulatory requirements; and
- license fees for and milestone payments related to licensed products and technologies.

From our inception through June 30, 2018, we have incurred approximately \$432.9 million in research and development expenses, which predominately relates to our development of BCV. These costs were largely related to the conduct of our clinical trials of BCV.

Our direct research and development expenses consist primarily of external costs, such as fees paid to investigators, consultants, central laboratories and CROs, in connection with our clinical trials, preclinical development, and payments to third-party manufacturers of drug substance and drug product. We typically use our employee and infrastructure resources across multiple research and development programs.

The table below summarizes our research and development expenses for the periods indicated (in thousands):

Three Months Ended June 30,	Six Months Ended June 30,
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	2018	2017	2018	2017
Direct research and development expenses	\$7,716	\$5,711	\$15,428	\$12,011
Research and development personnel costs - excluding stock-based compensation	2,857	3,071	6,775	6,713
Research and development personnel costs - stock-based compensation	1,536	1,852	2,856	3,615
Indirect research and development expenses	1,603	1,002	3,012	2,039
Total research and development expenses	\$13,712	\$11,636	\$28,071	\$24,378

The successful development of our clinical and preclinical product candidates is highly uncertain. At this time, we cannot reasonably estimate the nature, timing or costs of the efforts that will be necessary to complete the remainder of the development of any of our clinical or preclinical product candidates or the period, if any, in which material net cash inflows from these product candidates

may commence. This is due to the numerous risks and uncertainties associated with the development of our product candidates, as detailed in Part II, Item IA, "Risk Factors" in this Quarterly Report on Form 10-Q and in our other filings with the SEC.

Oral Brincidofovir

The majority of our research and development resources has been focused on our Phase 3 trial of BCV for prevention of CMV in HCT recipients (SUPPRESS), our trial of BCV as a treatment for AdV (AdVise), our recently initiated AdAPT study in pediatric HCT recipients and our other clinical and preclinical studies and other work needed to provide sufficient data supporting the safety, tolerability and efficacy of BCV for approval in the United States and equivalent health authority approval outside the United States.

In addition, pursuant to our contract with BARDA, we are continuing development of brincidofovir for the treatment of smallpox. During the base performance segment of the contract, we incurred significant expense in connection with the development of orthopox virus animal models, the demonstration of efficacy and PK of BCV in the animal models, the conduct of an open label clinical safety study for subjects with DNA viral infections, and the manufacture and process validation of bulk drug substance and BCV 100 mg tablets. During the first option segment of the contract, we performed additional confirmatory PK studies of BCV in animals. In September 2014, we initiated performance under the second option segment of the contract with BARDA with a scope of work comprising two pivotal animal efficacy studies of BCV. In September 2015, we initiated performance under the third option segment which focuses on BCV chemistry, manufacturing and controls at large scale and a second adjunct animal study.

IV Brincidofovir

We have also incurred research and development costs associated with the development of IV BCV. We have conducted preclinical testing and Phase 1 clinical studies and are conducting Phase 2 clinical studies, and continue to progress manufacturing process development.

CMX521 for Norovirus

In addition to the costs associated with BCV development, we have incurred research and development costs related to other programs, including CMX521 for norovirus. The majority of this work has been focused on preclinical development, early-stage chemistry, manufacturing, and conduct of our Phase 1 clinical trial. Process development of CMX521 manufacturing is underway as well.

General and Administrative Expenses

General and administrative expenses consist primarily of salaries and related costs for employees in executive, finance, commercial, information technology, legal, human resources and administrative support functions, including share-based compensation expenses and benefits. Other significant general and administrative expenses include accounting and legal services, cost of various consultants, director and officer liability insurance, occupancy costs and information systems. Pre-launch activities for BCV continue to be a significant portion of general and administrative expenses.

Unrealized Loss on Equity Investment

Unrealized loss on equity investment consists of the decrease in fair value of our investment in ContraVir Pharmaceuticals (ContraVir) common stock for the three and six months ended June 30, 2018.

Interest Income

Interest income consists primarily of interest earned on our cash, cash equivalents, short-term investments and long-term investments.

Share-based Compensation

The Financial Accounting Standards Board authoritative guidance requires that share-based payment transactions with employees be recognized in the financial statements based on their fair value and recognized as compensation expense over the vesting period. The total consolidated share-based compensation expense of \$4.0 million and \$4.2 million was recognized in the three months ended June 30, 2018 and 2017, respectively, and \$7.4 million and \$8.3 million was recognized in the six months ended June 30, 2018 and 2017, respectively. The share-based compensation expense recognized included expense for stock options,

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RSUs and our employee stock purchase plan purchase rights.

We estimate the fair value of our share-based awards to employees and directors using the Black-Scholes pricing model. This estimate is affected by our stock price as well as assumptions including the expected volatility, expected term, risk-free interest rate, expected dividend yield, expected rate of forfeiture and the fair value of the underlying common stock on the date of grant.

For performance-based RSUs, we begin to recognize the expense when it is deemed probable that the performance-based goal will be achieved. We evaluate the probability of achieving performance-based goals on a quarterly basis.

CRITICAL ACCOUNTING POLICIES AND SIGNIFICANT JUDGMENTS AND ESTIMATES

Our management's discussion and analysis of financial condition and results of operations is based on our unaudited consolidated financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States of America (GAAP). The preparation of these consolidated financial statements requires us to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses. On an ongoing basis, we evaluate these estimates and judgments. We base our estimates on historical experience and on various assumptions that we believe to be reasonable under the circumstances. These estimates and assumptions form the basis for making judgments about the carrying values of assets and liabilities and the recording of revenues and expenses that are not readily apparent from other sources. Actual results and experiences may differ materially from these estimates. In addition, our reported financial condition and results of operations could vary if new accounting standards are enacted that are applicable to our business.

We discussed accounting policies and assumptions that involve a higher degree of judgment and complexity in Note 1 to our consolidated financial statements in our Annual Report on Form 10-K for the year ended December 31, 2017 filed with the SEC on March 1, 2018. There have been no material changes during the six months ended June 30, 2018 to our critical accounting policies, significant judgments and estimates disclosed in our Annual Report on Form 10-K for the year ended December 31, 2017.

RESULTS OF OPERATIONS

Comparison of the Three Months Ended June 30, 2018 and June 30, 2017

The following table summarizes our results of operations for the three months ended June 30, 2018 and June 30, 2017, together with the changes in those items (in thousands, except percentages):

	Three Months Ended		Dollar Change		
	June 30, 2018	2017	Increase/(Decrease)		
Contract revenue	\$1,193	\$675	\$ 518	76.7	%
Operating expenses:					
Research and development	13,712	11,636	2,076	17.8	%
General and administrative	6,650	6,284	366	5.8	%
Total operating expenses	20,362	17,920	2,442	13.6	%
Loss from operations	(19,169)	(17,245)	(1,924)	11.2	%
Other (expense) income:					
Unrealized loss on equity investment	(78)	—	(78)	*	
Interest income	634	565	69	12.2	%

Net loss \$(18,613) \$(16,680) \$(1,933) 11.6 %

* Not meaningful or not calculable

Contract Revenue

For the three months ended June 30, 2018, total contract revenue increased to \$1.2 million compared to \$0.7 million for the three months ended June 30, 2017. This change is related to an increase in reimbursable expenses related to our contract with BARDA.

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Research and Development Expenses

For the three months ended June 30, 2018, our research and development expenses increased to \$13.7 million compared to \$11.6 million for the three months ended June 30, 2017. The increase of \$2.1 million, or 17.8%, is primarily related to the following:

- an increase of \$1.2 million related to the oral BCV program, which is mainly comprised of an increase of \$0.7 million related to clinical trial studies and an increase of \$0.5 million related to drug manufacturing costs;
- an increase of \$0.5 million related to the smallpox program; and
- an increase in legal and consulting fees of \$0.6 million; offset by
- a decrease of \$0.5 million in compensation expense.

General and Administrative Expenses

For the three months ended June 30, 2018, our general and administrative expenses increased to \$6.7 million compared to \$6.3 million for the three months ended June 30, 2017. The increase of \$0.4 million, or 5.8%, is primarily related to the following:

- an increase of \$0.5 million in commercial readiness efforts related to oral BCV, IV BCV and CMX521; offset by
- a decrease of \$0.2 million in compensation expense.

Unrealized Loss on Equity Investment

For the three months ended June 30, 2018, unrealized loss on equity investment was \$0.1 million related to the decline in fair value of our investment in ContraVir common stock. Unrealized loss on equity investments for the three months ended June 30, 2017 was recorded in other comprehensive income.

Interest Income

For each of the three months ended June 30, 2018 and 2017, our interest income was \$0.6 million.

Comparison of the Six Months Ended June 30, 2018 and June 30, 2017

The following table summarizes our results of operations for the six months ended June 30, 2018 and June 30, 2017, together with the changes in those items (in thousands except percentages):

	Six Months Ended		Dollar Change		
	June 30, 2018	June 30, 2017	Increase/(Decrease)	% Change	
Contract revenue	\$1,983	\$1,753	\$ 230	13.1	%
Operating expenses:					
Research and development	28,071	24,378	3,693	15.1	%
General and administrative	13,388	12,880	508	3.9	%
Total operating expenses	41,459	37,258	4,201	11.3	%
Loss from operations	(39,476)	(35,505)	(3,971)	11.2	%
Other (expense) income:					
Unrealized loss on equity investment	(212)	—	(212)	*	
Interest income	1,249	1,071	178	16.6	%
Net loss	\$(38,439)	\$(34,434)	\$(4,005)	11.6	%

* Not meaningful or not calculable

Contract Revenue

For the six months ended June 30, 2018, total contract revenue increased to \$2.0 million compared to \$1.8 million for the six months ended June 30, 2017. The increase of \$0.2 million, or 13.1%, is related to an increase in reimbursable expenses related to our contract with BARDA.

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Research and Development Expenses

For the six months ended June 30, 2018, our research and development expenses increased to \$28.1 million compared to \$24.4 million for the six months ended June 30, 2017. The increase of \$3.7 million, or 15.1%, is primarily related to the following:

- an increase in oral BCV expenses of \$2.8 million, which is comprised primarily of a \$2.0 million increase in clinical trial expenses and a \$0.8 million increase in drug manufacturing costs;
- an increase of \$0.4 million related to the smallpox program; and
- an increase of \$1.5 million in legal and consulting fees; offset by
- a decrease of approximately \$0.7 million related to our development of CMX521; and
- a decrease of \$0.8 million in compensation expense.

General and Administrative Expenses

For the six months ended June 30, 2018, our general and administrative expenses increased to \$13.4 million compared to \$12.9 million for the six months ended June 30, 2017. The increase of \$0.5 million, or 3.9%, is primarily related to the following:

- an increase of \$0.9 million in commercial readiness efforts related to oral BCV, IV BCV, and CMX521; offset by
- a decrease of \$0.5 million related to compensation expense.

Interest Income

For the six months ended June 30, 2018, our interest income increased to \$1.2 million compared to \$1.1 million for the six months ended June 30, 2017. The increase is attributable to interest earned on our cash and investments.

LIQUIDITY AND CAPITAL RESOURCES

As of June 30, 2018, we had capital available to fund operations of approximately \$195.7 million. Cash in excess of immediate requirements is invested in accordance with our investment policy, primarily with a view to liquidity and capital preservation. We have incurred losses since our inception in 2000 and as of June 30, 2018, we had an accumulated deficit of \$525.2 million. We anticipate that we will continue to incur losses for at least the next several years.

On November 8, 2017, we entered into an at-the-market (ATM) sales agreement with Cowen and Company, LLC to sell up to \$75 million of our common stock under a shelf registration statement filed in November 2017. In July 2018, we began selling shares of common stock through this ATM sales agreement. As of August 2, 2018, we had sold an aggregate of 174 thousand shares of common stock at a weighted average price per share of \$4.72 for net offering proceeds of \$0.8 million.

We believe that our existing cash, cash equivalents, short-term investments, and long-term investments will enable us to fund our current operating expenses and capital requirements for at least the next 12 months; however, we anticipate that we will need additional capital in the future to fund our operations, which we may obtain through one or more of equity offerings (including sales under the ATM sales agreement), debt financings, government or other third-party funding, strategic alliances and licensing or collaboration arrangements.

We cannot assure you that adequate funding will be available on terms acceptable to us, if at all. Any additional equity financings will be dilutive to our stockholders and any additional debt may involve operating covenants that may

restrict our business. If adequate funds are not available through these means, we may be required to curtail significantly one or more of our research or development programs, our pre-launch expenses, and any launch and other commercialization expenses for any of our products that may receive marketing approval. We cannot assure you that we will successfully develop or commercialize our products under development or that our products, if successfully developed, will generate revenues sufficient to enable us to earn a profit.

Cash Flows

The following table sets forth the significant sources and uses of cash (in thousands):

	Six Months Ended	
	June 30,	
	2018	2017
Cash sources and uses:		
Net cash used in operating activities	\$(32,550)	\$(26,625)
Net cash provided by (used in) investing activities	41,256	(1,444)
Net cash provided by financing activities	193	497
Net increase (decrease) in cash and cash equivalents	\$8,899	