UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 6-K

REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 OR 15d-16 UNDER THE SECURITIES EXCHANGE ACT OF 1934

For the month of November 2023

Commission File Number: 001-39458

Medicenna Therapeutics Corp. (Translation of registrant's name into English)

2 Bloor St. W., 7th Floor Toronto, Ontario M4W 3E2, Canada (Address of principal executive office)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.

Form 20-F [X] Form 40-F []

Other Events

The information in this Report on Form 6-K and in the attached Exhibits 99.1 and 99.2 shall be deemed to be incorporated by reference into the Company's registration statements on Forms F-10 (File No. 333-238905), Form S-8 (No. 333-240225) and Form F-3 (No. 333-269868), and related prospectuses, as such registration statements and prospectuses may be amended from time to time, and to be a part thereof from the date on which this report is filed, to the extent not superseded by documents or reports subsequently filed or furnished.

The information in the attached Exhibits 99.3, 99.4 and 99.5 is being furnished and shall not be deemed "filed" for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that Section, nor shall it be deemed incorporated by reference in any filing made by the Company under the Securities Act of 1933, as amended, or the Exchange Act, except as otherwise set forth herein or as shall be expressly set forth by specific reference in such a filing.

EXHIBIT INDEX

EXHIBIT	<u>Description</u>
<u>99.1</u>	<u>Interim Financial Statements for the period ended September 30, 2023</u>
<u>99.2</u>	Management's Discussion and Analysis for the period ended September 30, 2023
<u>99.3</u>	Form 52- 109F2 Certification of Interim Filings Full Certificate – CEO
<u>99.4</u>	Form 52- 109F2 Certification of Interim Filings Full Certificate – CFO
99.5	News release dated November 14, 2023

SIGNATURES

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.

MEDICENNA THERAPEUTICS CORP.

Date: November 14, 2023 By: /s/ Fahar Merchant

Name: Fahar Merchant

Title: President and Chief Executive Officer



Interim condensed consolidated financial statements of

Medicenna Therapeutics Corp.

(Expressed in Canadian Dollars)

For the three and six months ended September 30, 2023

Medicenna Therapeutics Corp.Interim Condensed Consolidated Statements of Financial Position
(Expressed in thousands of Canadian Dollars, except for share and per share amounts) (Unaudited)

Assets	September 30, 2023 \$	March 31, 2023 \$
Current assets		
Cash and cash equivalents	25,687	33,596
Prepaids and deposits	1,691	1,934
Other receivables	306	855
	27,684	36,385
Intangible assets (Note 8)	59	61
	27,743	36,446
Liabilities		
Current liabilities		
Accounts payable and accrued liabilities	3,695	3,800
	3,695	3,800
Other long-term liabilities	158	-
Warrant derivative (note 6)	453	3,160
	4,306	6,960
Shareholders' Equity		
Common shares (Note 3)	100,924	100,924
Contributed surplus (Notes 4 and 5)	10,049	9,486
Accumulated other comprehensive income	30	57
Deficit	(87,566)	(80,981)
	23,437	29,486
	27,743	36,446

Going concern (Note 1)

Subsequent event (Note 11)

Medicenna Therapeutics Corp.Interim Condensed Consolidated Statements of Loss and Comprehensive Loss (Expressed in thousands of Canadian Dollars, except for share and per share amounts) (Unaudited)

	3 months ended	3 months ended	6 months ended	6 months ended
	September 30,	September 30,	September 30,	September 30,
	2023	2022	2023	2022
	\$	\$	\$	\$
Operating expenses				
General and administration (Note 10)	2,303	2,371	3,950	4,290
Research and development (Note 10)	3,134	2,362	5,946	4,773
Total operating expenses	5,437	4,733	9,896	9,063
				_
Finance income	(342)	(162)	(688)	(192)
Change in fair value of warrant derivative (Note 6)	(960)	(1,800)	(2,707)	(1,800)
Foreign exchange (gain) loss	(412)	(1,875)	84	(2,020)
	(1,714)	(3,837)	(3,311)	(4,012)
Net loss for the period	(3,723)	(896)	(6,585)	(5,051)
Cumulative translation adjustment	503	(7)	(27)	(11)
Comprehensive loss for the period	(3,220)	(903)	(6,612)	(5,062)
Basic and diluted loss per share for the period	(0.05)	(0.01)	(0.09)	(80.0)
Weighted average shares outstanding (Note 3)	69,637,469	63,550,512	69,637,469	59,862,299

Medicenna Therapeutics Corp.
Interim Condensed Consolidated Statements of Cash Flows
(Expressed in thousands of Canadian Dollars) (Unaudited)

	Six months ended September 30, 2023 \$	Six months ended September 30, 2022 \$
Operating activities		
Net loss for the period	(6,585)	(5,051)
Items not involving cash		
Depreciation	2	2
Stock based compensation	563	837
Unrealized foreign exchange	493	(1,381)
Accrued interest	_	(95)
Change in fair value of warrant derivative (Note 6)	(2,707)	(1,800)
Changes in non-cash working capital		
Other receivables and deposits	792	463
Accounts payable and accrued liabilities	53	316
	(7,389)	(6,709)
Financing activities		
Issuance of share capital on ATM, net of issuance costs (Note 3)	_	901
Issuance of share capital and warrants in public offering, net of issuance costs (Note 3)		23,912
		24,813
Effect of foreign exchange on cash	(520)	1,370
Net decrease in cash	(7,909)	19,474
Cash, beginning of period	33,596	20,535
Cash, end of period	25,687	40,009

Medicenna Therapeutics Corp.Interim Condensed Consolidated Statements of Changes in Shareholders' Equity (Expressed in thousands Canadian Dollars, except for share and per share amounts) (Unaudited)

				Accumulated other		
	Common sh	nares issued	Contributed	comprehensive		
	and o	outstanding	surplus	income	Deficit	Total
	Number	Amount				
	#	\$	\$	\$	\$	\$
Balance, March 31, 2022	55,647,479	83,671	7,926	171	(70,933)	20,835
Stock based compensation	_	_	837	_	_	837
Issued on ATM financing (Note 3)	656,656	901	_	_	_	901
Issued pursuant to public offering, net of warrant						
derivative (Note 3)	13,333,334	16,405	_	_	_	16,405
Cumulative translation adjustment	_	_	_	(11)	_	(11)
Net loss for the period	_	_	_	_	(5,051)	(5,051)
Balance, September 30, 2022	69,637,469	100,977	8,763	160	(75,984)	33,916
Balance, March 31, 2023	69,637,469	100,924	9,486	57	(80,981)	29,486
Stock based compensation	_	_	563	_	_	563
Cumulative translation adjustment	-	_	-	(27)	_	(27)
Net loss for the period	_	_	_	_	(6,585)	(6,585)
Balance, September 30, 2023	69,637,469	100,924	10,049	30	(87,566)	23,437

Notes to the interim condensed consolidated financial statements (unaudited)
For the Three and Six months ended September 30, 2023 and 2022
(Tabular amounts expressed in thousands of Canadian Dollars, except for share and per share amounts)

1. Nature of business and going concern

The Company's principal business activity is the development and commercialization of IL-2, IL-4 and IL-13 Superkines and Empowered Superkines for the treatment of cancer, inflammation and immune-mediated diseases. Medicenna has four wholly owned subsidiaries, Medicenna Therapeutics Inc. ("MTI") (British Columbia), Medicenna Biopharma Inc. ("MBI") (Delaware), Medicenna Biopharma Inc. ("MBIBC") (British Columbia) and Medicenna Australia PTY Ltd ("MAL") (Australia). Medicenna is traded on the Toronto Stock Exchange under the symbol ''MDNA".

As at September 30, 2023, the head and registered office is located at 2 Bloor St W, 7th Floor, Toronto, Ontario, Canada.

Since inception, the Company has devoted its resources to funding R&D programs, including securing intellectual property rights and licenses, conducting discovery research, manufacturing drug supplies, initiating preclinical and clinical studies, submitting regulatory dossiers and providing administrative support to R&D activities, which has resulted in an accumulated deficit of \$87.6 million as of September 30, 2023. With current finance income only consisting of interest earned on excess cash, cash equivalents and marketable securities, losses are expected to continue while the Company's R&D programs are advanced.

The Company currently does not earn any revenues from our product candidates and are therefore considered to be in the development stage. As required, the Company will continue to finance its operations through the sale of equity or pursue non-dilutive funding sources available to the Company in the future. The continuation of our research and development activities for bizaxofusp (formerly MDNA55), MDNA11 and the BiSKITsä platform and the commercialization of bizaxofusp is dependent upon our ability to successfully finance and complete our research and development programs through a combination of equity financing and revenues from strategic partners. There is no guarantee of future financing and that our research and development activities associated with bizaxofusp, MDNA11 and the BiSKITs platform will be successful, which may require a change in plans of the Company. The Company has no current sources of revenues from strategic partners.

The ability of the Corporation to continue as a going concern is dependent upon raising additional financing through equity and non-dilutive funding and partnerships. There can be no assurance that the Corporation will have sufficient capital to fund its ongoing operations, and develop or commercialize any products without future financings. These material uncertainties cast substantial doubt as to the Corporation's ability to meet its obligations as they come due and, accordingly, the appropriateness of the use of accounting principles applicable to a going concern. There can be no assurance that additional financing will be available on acceptable terms or at all. If the Corporation is unable to obtain additional financing when required, the Corporation may have to substantially reduce or eliminate planned expenditures or the Corporation may be unable to continue operations.

The Corporation's ability to continue as a going concern is dependent upon its ability to fund its research and development programs and defend its patent rights. These interim condensed consolidated financial statements do not reflect the adjustments to the carrying values of assets and liabilities and the reported expenses and statements of financial position classifications that would be necessary if the Corporation were unable to realize its assets and settle its liabilities as a going concern in the normal course of operations. Such adjustments could be material.

2. Basis of presentation and significant accounting policies

a) Statement of compliance

These interim condensed consolidated financial statements have been prepared in accordance with International Accounting Standards ("IAS") 34 'Interim Financial Reporting' (IAS 34) using accounting policies consistent with International Financial Reporting Standards ("IFRS") as issued by the International Accounting Standards Board ("IASB") and the Interpretations of the International Financial Reporting and Interpretations Committee ("IFRIC").

The interim condensed consolidated financial statements do not include all the information and

Notes to the interim condensed consolidated financial statements (unaudited)

For the Three and Six months ended September 30, 2023 and 2022

(Tabular amounts expressed in thousands of Canadian Dollars, except for share and per share amounts)

2. Basis of presentation and significant accounting policies cont'd

disclosures required in the annual financial statements and should be read in conjunction with the Company's audited financial statements for the year ended March 31, 2023.

The interim condensed consolidated financial statements were approved by the Company's Board of Directors and authorized for issue on November 13, 2023.

b) Functional and presentation currency

The functional currency of an entity and its subsidiary is the currency of the primary economic environment in which the entity operates. The functional currency of the parent company is the Canadian dollar and the functional currency of MBI is the US dollar, the functional currency of MTI and MBI BC is the Canadian dollar, the functional currency of the parent company is the Canadian dollar.

c) Significant accounting judgments, estimates and assumptions

The preparation of these unaudited interim condensed consolidated financial statements in accordance with IFRS requires management to make judgments, estimates and assumptions that affect the application of accounting policies and reported amounts of assets and liabilities at the date of the unaudited condensed consolidated interim financial statements and reported amounts of revenues and expenses during the reporting period. Actual outcomes could differ from these estimates.

The unaudited interim condensed consolidated financial statements include estimates, which, by their nature, are uncertain. The impacts of such estimates are pervasive throughout the unaudited interim condensed consolidated financial statements and may require accounting adjustments based on future occurrences. The estimates and underlying assumptions are reviewed on a regular basis. Revisions to accounting estimates are recognized in the period in which the estimate is revised and in any future periods affected.

The accompanying unaudited interim condensed consolidated financial statements are prepared in accordance with IFRS and follow the same accounting policies and methods of application as the audited consolidated financial statements of the Company for the year ended March 31, 2023. They do not include all of the information and disclosures required by IFRS for annual financial statements. In the opinion of management, all adjustments considered necessary for fair presentation have been included in these unaudited condensed consolidated interim financial statements. Operating results for the six months ended September 30, 2023 are not necessarily indicative of the results that may be expected for the full year ended March 31, 2024. For further information, see the Company's audited consolidated financial statements including notes thereto for the year ended March 31, 2023.

3. Share capital

Authorized

Unlimited common shares

Equity Issuances

August 2022 Public Offering

On August 10, 2022, pursuant to an underwritten public offering, 13,333,334 units were sold at a purchase price of US\$1.50 per unit for gross proceeds of US\$20.0 million (\$25.6 million). Each unit included one common share with a fair value of US\$1.06 and one common share purchase warrant with a fair value of US\$0.44 (see Note 6). Each common share purchase warrant entitles the holder to purchase one common

Notes to the interim condensed consolidated financial statements (unaudited) For the Three and Six months ended September 30, 2023 and 2022

(Tabular amounts expressed in thousands of Canadian Dollars, except for share and per share amounts)

3. Share capital cont'd

share at an exercise price of US\$1.85 until August 9, 2027. The Company incurred transaction costs of \$2.2 million (US\$1.7 million) of which \$1.6 million (US\$1.2 million) were allocated to share issue costs and \$0.6 million (US\$0.5 million) were allocated to operating expenses, based on their relative fair values.

At-The-Market Facility

On February 17, 2023, the Company entered into a sales agreement with Oppenheimer & Co. Inc. acting as a sales agent, pursuant to which the Company may, from time to time sell, through at-the-market ("2023 ATM") on the NASDAQ such number of common shares as would have an aggregate offering price of up to US\$10.0 million (the 2023 ATM Offering). During the six months ending September 30, 2023, the Company has issued no common shares on the 2023 ATM Offering. On November 2, 2023, the trading of the Company's common shares on the Nasdaq Capital Market ("Nasdaq") was suspended as a result of the Company's failure to comply with the US\$1.00 per share minimum bid price requirement. Further to the Nasdaq Delisting, the 2023 ATM Agreement was terminated.

On December 30, 2020, the Company entered into a sales agreement with SVB Leerink acting as sales agent, pursuant to which the Company may, from time to time sell, through at-the-market ("ATM") on the NASDAQ such number of common shares as would have an aggregate offering price of up to US\$25.0 million (the ATM Offering), which expired December 30, 2022. During the three months ended June 30, 2022, the Company issued 656,656 common shares for gross proceeds of US\$0.8 million at an average price of US\$1.20. The company received; net of commissions US\$0.7 million. In total, the Company incurred share issuance costs (including commissions) of US\$0.1 million.

Calculation of loss per share

Loss per common share is calculated using the weighted average number of common shares outstanding. For the periods ended September 30, 2023 and 2022, the calculation was as follows:

	Three months ended September 30,		Six months Septemb	
	2023 2022		2023	2022
Common shares issued and outstanding, beginning of year	69,637,469	56,304,135	69,637,469	55,647,479
ATM issuances	_	_	_	571,833
Shares issued on 2022 Public Offering	_	7,246,377	_	3,642,987
Weighted average shares outstanding, end of period	69,637,469	63,550,512	69,637,469	59,862,299

The effect of any potential exercise of the Company's stock options and warrants outstanding during the year has been excluded from the calculation of diluted loss per common share as it would be anti- dilutive.

Notes to the interim condensed consolidated financial statements (unaudited)

For the Three and Six months ended September 30, 2023 and 2022

(Tabular amounts expressed in thousands of Canadian Dollars, except for share and per share amounts)

4. Warrants

Warrant continuity:

	Warrants	Weighted average exercise price
	#	\$
Issued and outstanding		
Balance – March 31, 2022	2,964,542	1.51
Common share purchase warrants issued in the 2022 Public Offering	13,333,334	2.39
Warrants expired during the period	(112,490)	1.75
Balance – March 31, 2023	16,185,386	2.23

There has been no warrant activity during the period ended September 30, 2023.

At September 30, 2023, warrants were outstanding and exercisable, enabling holders to acquire common shares as follows:

Expiry Date	Exercise Price	Warrants #
December 21, 2023	1.20	1,303,000
October 17, 2024	1.75	1,549,052
August 9, 2027	US 1.85	13,333,334
		16,185,386

During the 3 months ended September 30, 2023, the warrants issued on October 17, 2019, in correlation with a public offering, were due to expire on July 17, 2023 and were extended to October 17, 2024.

5. Stock options

During the six months ended September 30, 2023, the Company granted 2,884,000 stock options at an average exercise price of \$0.39 per share. Of these granted, 2,155,000 options were granted to the Company's officers and employees and vest 50% after one year, 25% after two years and 25% after three years, and have a ten-year life. Another 250,000 options were granted to advisors of the Company and vest 50% upon issuance and 50% over 1 year and have a five-year life. Finally, 479,000 options were granted to the Board and advisors of the Company and vest 50% upon issuance and 50% after 1 year and have a five-year life.

During the six months ended September 30, 2022, the Company granted 1,290,713 stock options at an average exercise price of \$1.44 per share. 997,608 of the options were granted to the Company's officers and employees and vest 1/3 after one year, 1/3 after two years and 1/3 after three years, and have a ten-year life; and 293,105 options were granted to Directors of the Company at a price of \$1.45 and vest 50% upon issuance and 50% after 1 year and have a five-year life.

Notes to the interim condensed consolidated financial statements (unaudited)

For the Three and Six months ended September 30, 2023 and 2022

(Tabular amounts expressed in thousands of Canadian Dollars, except for share and per share amounts)

5. Stock options cont'd

Stock option transactions for the period ended September 30, 2023 and 2022 are set forth below:

	Number of options	Weighted average exercise price
Balance outstanding at March 31, 2022	4,464,640	2.00
Granted	1,290,713	1.44
Expired	(100,000)	2.88
Forfeited	(45,000)	3.86
Balance outstanding at March 31, 2023	5,610,353	\$ 1.84
Granted	2,884,000	0.39
Cancelled	(175,230)	0.52
Balance outstanding at September 30, 2023	8,319,123	\$ 1.34

The following assumptions were used in the Black-Scholes option-pricing model to determine the fair value of stock options granted during the period:

	September 30,	
	2023	March 31, 2023
	#0.D0 #0.G	Ø4 DC 4 45
Exercise price	\$0.38 - \$0.67	\$1.36-1.45
Grant date share price	\$0.38 - \$0.67	\$1.36-1.45
Risk free interest rate	5%	5.10%
Expected life of options	5 years	5 years
Expected volatility	86%	90%
Expected dividend yield	-	-
Forfeiture rate	0% - 15%	0% - 15%
Weighted average fair value of options granted during the period	\$0.27	\$1.04

The following table summarizes information about stock options outstanding at September 30, 2023:

			Options outstanding		Options exercisable
Exercise price range \$	Number #	Weighted average exercise price \$	Weighted average remaining contractual life (years)	Number #	Weighted average exercise price \$
0.38-1.99	5,978,721	0.84	7.22	2,925,440	1.13
2.00-2.99	1,579,000	2.03	3.53	1,579,000	2.03
3.00-5.19	761,402	3.77	4.26	604,659	3.78
	8,319,123	1.34	6.25	5,109,099	1.72

Notes to the interim condensed consolidated financial statements (unaudited)

For the Three and Six months ended September 30, 2023 and 2022

(Tabular amounts expressed in thousands of Canadian Dollars, except for share and per share amounts)

6. Warrant Derivative

On August 10, 2022, pursuant to an underwritten public offering, 13,333,334 units were sold at a purchase price of US\$1.50 per unit for gross proceeds of US\$20.0 million (\$25.6 million). Each unit included one common share and one common share purchase warrant. Each common share purchase warrant entitles the holder to purchase one common share at an exercise price of US\$1.85 until August 9, 2027. The Company incurred transaction costs of \$2.2 million (US\$1.7 million) of which \$1.6 million (US\$1.2 million) were allocated to share issue costs and \$0.6 million (US\$0.5 million) were allocated to operating expenses, based on their relative fair values.

Under IFRS 9 Financial Instruments and IAS 32 Financial Instruments: Presentation, warrants with an exercise price denominated in a currency that differs from an entity's functional currency are treated as a derivative measured at fair value with subsequent changes in fair value accounted for through the consolidated statement of loss. The Company's warrants have an exercise price of US\$1.85, and therefore meet this requirement and has presented the value of these warrants as a non-current liability on the consolidated statement of financial position. Upon exercise, the recorded liability is to be reallocated to share capital with the proceeds from the exercise. In the case that these warrants expire, the related liability is reversed through the consolidated statement of loss. As a result of this accounting treatment, there is no cash flow impact.

Estimating the fair value for the warrant derivative requires determining an appropriate valuation model which is dependent on the terms and conditions of the issuance. This estimate also requires determining the most appropriate inputs to the valuation model, including the expected life of the warrant derivative, expected share price volatility and expected dividend yield and making assumptions about them.

A reconciliation of the change in fair value of the warrant derivative is as follows:

	\$
Balance September 30, 2022	5,707
Change in fair value of warrant derivative	(2,588)
Foreign exchange loss	41
Balance March 31, 2023	3,160
Change in fair value of warrant derivative	(2,591)
Foreign exchange loss	(116)
Balance September 30, 2023	453

The Company uses historical data to estimate the expected dividend yield and expected volatility of our stock in determining the fair value of the warrants. The risk-free interest rate is based on U.S. Department of Treasury benchmark treasury yield rates in effect at the time of valuation and the expected life of the warrants represents the estimated length of time the warrants are expected to remain outstanding.

The following table summarizes the key assumptions used in the Black-Scholes valuation of the warrant derivative at September 30, 2023:

	September 30,		
	2023	ľ	March 31, 2023
Fair value of warrants	\$ 0.03	\$	0.24
Underlying share price	\$ 0.40	\$	0.88
Risk free interest rate	5.00%		5.10%
Expected hold period to exercise	2.0 years		2.5 years
Expected share price volatility	85%		85%
Expected dividend yield	Nil		Nil

Notes to the interim condensed consolidated financial statements (unaudited)

For the Three and Six months ended September 30, 2023 and 2022

(Tabular amounts expressed in thousands of Canadian Dollars, except for share and per share amounts)

7. Government assistance

CPRIT assistance

In February 2015, the Company received notice that it had been awarded a grant by the Cancer Prevention Research Institute of Texas ("CPRIT"). Under the terms of the grant, the Company is required to pay a royalty to CPRIT, comprised of 3-5% of revenues on net sales of MDNA55 until aggregate royalty payments equal 400% of the grant funds received at which time the ongoing royalty will be 0.5% of revenues. At this time the royalty is not probable and therefore no liability has been recorded. In addition, the Company must maintain a presence in Texas for three years following completion of the grant.

8. Commitments

Intellectual property

The Company has entered into various license agreements with respect to accessing patented technology. In order to maintain these agreements, the Company is obligated to pay certain costs based on timing or certain milestones within the agreements, the timing of which is uncertain. These costs include ongoing license fees, patent prosecution and maintenance costs, royalty and other milestone payments. As at September 30, 2023, the Company is obligated to pay the following:

a) Given the current development plans and expected timelines of the Company it is assumed that project milestones of US\$1.7 million will be due in the next five years.

9. Related party disclosures and key compensation

(a) Key management personnel

Key management personnel, which consists of the Company's officers (President and Chief Executive Officer, Chief Development Officer, former Chief Financial Officers, and former Chief Business Officer) and directors, earned the following compensation for the following periods:

	Three months ended		Six months en	nded
	September 30,		September 30,	
	2023 2022		2023	2022
	\$	\$	\$	\$
Salaries and wages	724	252	977	505
Board fees	101	76	179	152
Stock option expense	184	369	427	711
	1,009	697	1,583	1,368

(b) Amounts payable to related parties and key management personnel

As at September 30, 2023, the Company had trade and other payables in the normal course of business, owing to directors and officers of \$418 (2022 - \$132) related to board fees, accrued vacation, and accrued bonus.

Notes to the interim condensed consolidated financial statements (unaudited)

For the Three and Six months ended September 30, 2023 and 2022

(Tabular amounts expressed in thousands of Canadian Dollars, except for share and per share amounts)

10. Components of Expenses

	Three months ended September 30,		Six months ended September 30,	
	2023	2022	2023	2022
General and Administration Expenses	\$	\$	\$	\$
Depreciation expense (non-cash)	1	2	2	2
Stock based compensation (non-cash)	101	245	261	541
Facilities and operations	224	149	376	273
Public company expenses	1,350	1,097	2,420	2,374
Transaction costs, warrant derivative (Note 6)	-	652	-	652
Salaries and benefits	627	226	891	448
	2,303	2,371	3,950	4,290

	Three months end September 30,		Six months ended Sep	
	2023	2022	2023	2022
Research and Development Expenses	\$	\$	\$	\$
Chemistry, manufacturing, and controls	275	45	771	540
Regulatory	23	9	50	37
Discovery and pre-clinical	369	401	886	871
Clinical	1,394	901	2,091	1,531
Salaries and benefits	654	545	1,154	1,059
Licensing, patent, legal fees and royalties	442	275	857	436
Stock based compensation (non-cash)	167	185	302	296
Research and development tax credits	(200)	-	(200)	-
Other research and development expenses	10	1	35	3
	3,134	2,362	5,946	4,773

11. Subsequent events

On November 2, 2023, the Company's common shares were delisted from the Nasdaq Capital Market as a result of the Company's failure to comply with the US\$1.00 per share minimum bid price requirement (the "Nasdaq Delisting"). The Company's common shares continue to trade on the Toronto Stock Exchange. Following the Nasdaq Delisting, the Company is seeking to have its common shares traded on the OTC Markets.

In connection with the Nasdaq delisting, the Company announced the departure of Jeff Caravella as Chief Financial Officer effective October 26, 2023.

On October 26, 2023, 1,030,000 unvested stock options were cancelled due to employee departures from the Company, including the aforementioned Chief Financial Officer.



Management's Discussion and Analysis

For the Three and Six Months Ended September 30, 2023

DATE OF REPORT: November 13, 2023

MANAGEMENT'S DISCUSSION AND ANALYSIS

The following management's discussion and analysis ("MD&A") has been prepared as at November 7, 2023 for the three and six months ended September 30, 2023 and should be read in conjunction with the unaudited interim condensed consolidated financial statements of Medicenna Therapeutics Corp. for the three and six months ended September 30, 2023 and September 30, 2022, and the audited annual consolidated financial statements and accompanying notes for the year ended March 31, 2023 (the "Annual Financial Statements"), which have been prepared in accordance with International Financial Reporting Standards ("IFRS") as issued by the International Accounting Standards Board ("IASB"). Our IFRS accounting policies are set out in note 2 of the Annual Financial Statements and all dollar amounts are expressed in Canadian dollars unless otherwise noted.

All references in this MD&A to "the Company", "Medicenna", "we", "us", or "our" and similar expressions refer to Medicenna Therapeutics Corp. and the subsidiaries through which it conducts its business, unless otherwise indicated.

FORWARD-LOOKING STATEMENTS

This MD&A contains forward-looking statements within the meaning of applicable securities laws. Forward-looking statements are neither historical facts nor assurances of future performance. Instead, they are based on current beliefs, expectations, or assumptions regarding the future of the business, future plans and strategies, operational results and other future conditions of the Company. These statements involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of the Company, or industry results, to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements. All statements contained herein other than statements of historical fact regarding the prospects of the Company's industry or its prospects, plans, financial position or business strategy may constitute forward-looking statements and can generally be identified by the use of forward-looking words, such as "seek", "plan", "expect", "is expected", "continue", "predict", "potential", "budget", "scheduled", "estimate", "forecast", "contemplate", "intend", "anticipate", or "believe" or variations (including negative variations) of such words and phrases, or statements that certain actions, events or results "may", "could", "would", "should", "might", "shall" or "will" be taken, occur or be achieved and similar expressions are generally intended to identify forward-looking statements.

By their very nature, forward-looking statements involve inherent risks and uncertainties, both general and specific, and risks exist that predictions, forecasts, projections and other forward-looking statements will not be achieved. The Company cautions readers not to place undue reliance on these statements as a number of important factors could cause the actual results to differ materially from the beliefs, plans, objectives, expectations, anticipations, estimates and intentions expressed in such forward-looking statements. There can be no assurance that such statements will prove to be accurate and actual results and future events could differ materially from those anticipated in such statements. Risks, uncertainties and other factors which may cause the actual results, performance or achievements of the Company, as applicable, to be materially different from any future results, performance or achievements expressed or implied by such forward-looking information and statements include, but are not limited to, the risks described under the heading "Risks and Uncertainties" in this MD&A, the Company's annual report on Form 20-F for the fiscal year ended March 31, 2023 (the "Annual Report on Form 20-F") filed with the U.S. Securities and Exchange Commission on June 27, 2023.

Forward-looking statements in this MD&A include, but are not limited to:

- the therapeutic potential, clinical development and related milestones of the Company's Superkines and Empowered Superkines including MDNA11, the BiSKITsTM platform, the T-MASKTM platform and bizaxofusp (formerly MDNA55);
- the timely completion of the milestones related to the MDNA11 ABILITY Study (as defined below);
- the impact of the delay on clinical data;

- the clinical trial collaboration and supply agreement ("CTCSA") with Merck (known as MSD outside the United States and Canada);
- statements related to the potential extensions of the term of patents;
- a potential strategic partnership to facilitate bizaxofusp's further development and commercialization; and
- the use of proceeds from public equity offerings and the necessity for the Company to have recourse to such public equity offerings.

Although the Company has attempted to identify important factors that could cause actual actions, events or results to differ materially from those described in forward-looking statements, there may be other factors that cause actions, events or results to differ from those anticipated, estimated or intended, including the following:

- the lack of product revenue and inability to continue operations and research and development without sufficient funding;
- the Company's requirements for, and our ability to obtain, future funding on favorable terms or at all;
- the Company's history of losses and expectations of future losses;
- the Company's inability to complete development of or the inability to commercialize (if approved)
- the Company's product candidates, which are in the early stages of development;
- the expense, length and uncertainty of clinical drug development programs;
- the inability to achieve publicly announced milestones according to schedule, or at all;
- the risk that competitors may develop and market products that are more effective that the Company's product candidates or that the products developed by competitors may render the Company's product candidates obsolete or uncompetitive;
- the Company's inability to secure a partnership for bizaxofusp (formerly MDNA55);
- · the costs and uncertainty associated with extensive government regulation;
- the potential negative results from clinical trials or studies, adverse safety events or toxicities involving the Company's products used alone or in combination with other products of collaborators;
- the Company's ability to manage the unique risks and uncertainties related to developing biologics which could have a negative impact on future results of operations;
- the risk that preliminary and interim data from our clinical trials that we may announce or publish from time to time may change as patient data are further examined, audited or verified and more patient data become available;
- the value of the "Fast Track" designation granted to bizaxofusp and that it may not actually lead to a faster development or regulatory review or
 approval process and could be withdrawn by the United States Food and Drug Administration ("FDA");
- the unfavorable pharmacokinetic ("PK") or pharmacodynamic ("PD") properties of MDNA11 and MDNA19 used alone or in combination with other products of collaborators;
- the potential of the pre-clinical products of the Company;
- the risk of product liability claims;
- the Company's inability to enroll subjects in clinical trials or complete clinical trials on a timely basis;
- the failure of our product candidates to receive the marketing approval or market acceptance necessary for commercial success or to maintain any ongoing regulatory requirements it may be subject to;
- the potential for environmental exposure to hazardous or radioactive materials that are used in the Company's discovery and development process;
- the disruption in the availability of key components for ongoing clinical studies that could delay clinical studies, product testing and regulatory approval of the Company's product candidates;
- the Company's reliance on third parties for the planning, conduct and monitoring of preclinical and clinical trials and for the manufacture of drug product;
- the Company's reliance on contract manufacturers over whom the Company has limited control;
- the loss of license rights due to breach of license agreements;

- the conditions and restrictions of the Cancer Prevention and Research Institute of Texas ("CPRIT") grant;
- the ability to protect the Company's intellectual property and proprietary technology;
- the ability for the Company to obtain patent's term extensions;
- the potential involvement in intellectual property litigation;
- the risk that third parties on whom we rely for product development may not adequately protect the Company's trade secrets;
- the risk of product liability claims;
- · the limitations surrounding intellectual property rights;
- the volatility in the price of our common shares ("Common Shares");
- the dilution of investor's voting power and reductions in earnings per share owing to future issuances of equity or the conversion of securities into Common Shares;
- the fact that future profits will likely be used for the continued growth of the Company's business and not for the payment of dividends;
- the Company's treatment as a passive foreign investment company and potential adverse U.S. federal income tax consequences associated with such treatment;
- the difficulty U.S. investors may face in bringing actions against the Company for violations of U.S. federal or state securities laws and challenges in enforcing the judgments of U.S. courts against the Company and its directors and executive officers;
- · the Company's status as a foreign private issuer under applicable U.S. securities laws;
- the potential for the Company to lose its status as a foreign private issuer;
- changes in government regulations that could impact our business and operations;
- failure to comply with the U.S. Foreign Corrupt Practices Act, the Canadian Corruption of Foreign Public Officials Act and other global corruption and anti-bribery laws;
- · failure to comply with healthcare laws;
- · the ability of the Company's significant shareholders to assert a material influence over the Company's operations and governance;
- the adverse impact of factors outside our control, such as global health pandemics, natural disasters, geopolitical conflict and macroeconomic challenges;
- the Company's ability to successfully manage its growth;
- the failure of any acquired business, product, service or alliance to yield expected benefits;
- the Company's dependence upon certain key personnel, the loss of whom could adversely affect our ability to achieve our business objectives;
- changes in government regulations that could impact our business and operations;
- foreign currency exchange risks relating to the relative value of the United States dollar;
- · the failure of our disclosure controls and procedures to detect all errors or prevent all incidences of fraud;
- the failure to maintain an effective system of internal controls;
- the vulnerability of the computer and information systems of the Company, its consultants and contractors, and third parties on which the Company relies, to security breaches or failure; and
- the pursuit of opportunities for further research and development or additional business opportunities.

The forward-looking information in this MD&A does not include a full assessment or reflection of the negative effect of adverse economic conditions, including a potential recession, and related inflationary cost pressures, higher interest rates, financial and capital market volatility and labor challenges; the negative effect of adverse conditions associated with the continued evolution of the COVID-19 pandemic and geopolitical events; a declining level of business and consumer spending; regulatory initiatives, proceedings and decisions, government consultations and government positions that affect us and influence our business; and the efforts of the Company to mitigate such conditions or events.

All forward-looking statements reflect the Company's beliefs and assumptions based on information available at the time the assumption was made.

Although the forward-looking statements contained in this MD&A are based upon what the Company's management believes to be reasonable assumptions, the Company cannot assure readers that actual results will be consistent with these forward-looking statements.

Any forward-looking statements represent the Company's estimates only as of the date of this MD&A and should not be relied upon as representing the Company's estimates as of any subsequent date. The Company undertakes no obligation to update any forward-looking statement or statements to reflect events or circumstances after the date on which such statement is made or to reflect the occurrence of unanticipated events, except as may be required by securities laws.

COMPANY OVERVIEW

Medicenna Therapeutics is a clinical-stage immunotherapy company developing engineered cytokines, called Superkines, designed to improve the specificity, function and safety profile of unmodified interleukins. Medicenna's Superkine Platform transforms Superkines into multi-functional therapies that modulate, dampen, amplify or fine-tune the immune system.

Medicenna's mission is to harness the power of directed evolution to develop novel immunotherapies that have the potential to revolutionize the treatment landscape in oncology and other immune-related diseases.

Medicenna owns diverse platforms licensed from Stanford University ("Stanford") to develop a pipeline of Superkine candidates: IL-2 agonists, IL-2 antagonists and partial agonists of IL-2. Additional assets from Stanford also include several super-agonists of IL-4 and IL-13 and dual IL-4/IL-13 antagonists. These Superkines can be developed either on their own as short or long-acting therapeutics or fused with cell-killing proteins to generate Empowered Superkines that precisely deliver potent payloads to cancer cells without harming adjacent healthy cells. Superkines can also be fused with a large variety of proteins, antibodies, checkpoint inhibitors, and even other Superkines to incorporate two synergistic therapeutic activities into one molecule, creating novel Bi-specific SuperKine ImmunoTherapies and Targeted Metalloprotease Activated SuperKines, referred to by Medicenna as BiSKITsTM and T-MASKTM, respectively.

Medicenna's most advanced candidate is MDNA55, or bizaxofusp, for the treatment of recurrent glioblastoma ("rGBM"), the most common and uniformly fatal form of brain cancer. Bizaxofusp is a fusion of a circularly permuted version of IL-4, fused to a potent fragment of the bacterial toxin, Pseudomonas exotoxin ("PE"), and is designed to preferentially target tumor cells that over-express the interleukin 4 receptor ("IL-4R"). Bizaxofusp has successfully completed a Phase 2b trial for rGBM and holds FastTrack and Orphan Drug status from the U.S. Food and Drug Administration (FDA) and FDA/European Medicines Agency, respectively.

Our second clinical program is MDNA11, a next-generation long-acting beta-enhanced not-alpha IL-2 super agonist. MDNA11 comprises a molecule of human albumin that accumulates in tumors and augments MDNA11's half-life. MDNA11 is currently being evaluated in the ABILITY Phase 1/2 study in patients with melanoma and other solid cancers. The ABILITY study is a global, multi-center, open-label study that will assess the safety, tolerability and anti-tumor activity of MDNA11 as monotherapy or in combination with pembrolizumab (Keytruda®) under a clinical collaboration with Merck. MDNA11 has successfully completed Phase 1 with a favourable safety profile and demonstrated signs of efficacy in the monotherapy setting. The monotherapy recommended dose for expansion (RDE) for MDNA11 has been established and enrollment in the phase 2 portion of the ABILITY trial is currently underway.

Our earlier stage candidates from the $BiSKITs^{TM}$ and $T-MASK^{TM}$ platforms are in pre-clinical development and are expected to enter first in human clinical trials in 2025.

RECENT ACHIEVEMENTS & HIGHLIGHTS

The following are the achievements and highlights for the three months ended September 30, 2023 through to the date hereof:

- · On November 6, 2023, Medicenna announced encouraging single-agent activity from the dose escalation and evaluation portion of the ABILITY-1 study in advanced cancer patients receiving doses ³ 60 µg/kg of MDNA11 (N = 15) who had previously failed immune check-point inhibitor therapies. The results included ongoing partial responses with 100% and 70% reduction of target lesions in pancreatic and melanoma cancer patients, respectively, in addition to durable stable disease in 3 melanoma patients (> 20 to 80 weeks). This data was presented at the 38th Annual Meeting of the Society for Immuotherapy of Cancer ("SITC") held in San Diego. See *Research & Development Update MDNA11* for clinical updates.
- · On November 3, 2023, the Company presented preclinical data on its first-in-class IL-13Ra2 targeted candidate, MDNA113, from its T-MASK platform, which delivers a masked bispecific anti-PD1-IL2 Superkine to IL-13Ra2 expressing tumors (annual incidence of over 2 million)¹ where it is activated by cancer specific enzymes. This data was presented at the 38th Annual Meeting of the SITC held in San Diego. See *Research & Development Update T-MASK Platform* for research updates.
- · On November 2, 2023, the trading of the Company's common shares on the Nasdaq Capital Market ("Nasdaq") was suspended as a result of the Company's failure to comply with the US\$1.00 per share minimum bid price requirement. Form 25-NSE was filed with the United States Securities and Exchange Commission, which will remove the Company's securities from listing and registration on Nasdaq (the "Nasdaq Delisting"). The Company's common shares continue to trade on the Toronto Stock Exchange. Following the Nasdaq Delisting, the Company has applied to have its common shares traded on the OTC Markets.
- · On October 27, 2023, Medicenna announced that it was delisted from the Nasdaq as the Company did not meet the listing requirements, that it is reducing its presence in the US to conserve cash, and that Jeff Caravella, Chief Financial Officer, and Brent Meadows, Chief Business Officer, departed the Company, effective October 26, 2023.
- · On October 25, 2023, Medicenna announced dosing of the first patient in the Phase 2 monotherapy dose expansion portion of the ABILITY-1 Study.
- · On October 10, 2023, the Company announced the appointment of Humphrey Gardner, M.D., as the global Chief Medical Officer (CMO) to lead the development strategy and execution of Medicenna's clinical programs. Dr. Gardner brings over 20 years of experience in the pharma and biotech industry.
- · On October 3, 2023, new preclinical data characterizing MDNA223, an anti-PD1-IL-2 BiSKIT (Bifunctional SuperKine for ImmunoTherapy), including its synergy when combined with STING agonists were presented at the 2023 AACR Special Conference in Cancer Research: Tumor Immunology and Immunotherapy held in Toronto. See *Research & Development Update BiSKITs* for research updates.

¹ https://www.wcrf.org/cancer-trends/worldwide-cancer-data/

- · On August 9, 2023, the Company announced a clinical update on the MDNA11 monotherapy dose escalation portion of the first-in-human, Phase 1/2 ABILITY Study in patients with advanced solid tumors, selecting the 90 µg/kg dose administered every 2 weeks (following the step-up dosing regimen) as the recommended dose for expansion (RDE) for the Phase 2 monotherapy dose expansion phase of the study. *See Research & Development Update MDNA11 for clinical updates*.
- · On August 8, 2023, Dr. Arash Yavari was appointed as the Chair of Medicenna's Development Advisory Committee ("DAC"), a team comprised of industry veterans in immuno-oncology drug development and regulatory strategy.
- · On August 1, 2023, the Company announced the issuance of U.S. Patent No. 11,680,090, titled "Interleukin-2 Fusion Proteins and Uses Thereof". The patent further strengthens Medicenna's intellectual property around its BiSKITTM platform.
- · On July 26, 2023, Medicenna announced the completion of the Dose-Escalation portion of the ABILITY-1 Study and clearance of the 120µg/kg dose with no protocol defined DLTs. See Research & Development Update MDNA11 for clinical updates.
- · On July 20, 2023, Dr. Fahar Merchant, President and CEO of Medicenna, was invited to present and participate in a Research Roundtable organized by the National Brain Tumor Society. The event, entitled, "Use of External Control Data in Brain Tumor Clinical Trials" was held in Washington, D.C.

FINANCING UPDATE

Six months ended September 30, 2023

2023 At-The-Market Facility

On February 17, 2023, the Company entered into a sales agreement with Oppenheimer & Co. Inc., acting as sales agent (the "2023 ATM Agreement"), pursuant to which the Company may, from time to time sell, through at-the-market offerings on the Nasdaq such number of Common Shares as would have an aggregate offering price of up to US\$10.0 million (the "2023 ATM Facility"). During the six months ended September 30, 2023, the Company did not issue any Common Shares pursuant to the 2023 ATM Facility.

Further to the Nasdaq Delisting, the 2023 ATM Agreement was terminated.

Warrants

During the six months ended September 30, 2023, no warrants were exercised.

On July 17, 2023, the expiry date of an aggregate of 1,549,052 outstanding warrants issued on October 17, 2019 as part of a public offering of an aggregate of 5,307,693 units of the Company, was extended from July 17, 2023 to October 17, 2024.

Six months ended September 30, 2022

2020 At-The-Market Facility

On December 30, 2020, the Company entered into a sales agreement with SVB Leerink LLC acting as sales agent, pursuant to which the Company may, from time to time sell, through at-the-market ("ATM") offering on the Nasdaq such number of Common Shares as would have an aggregate offering price of up to US\$25.0 million, which expired on December 30, 2022. The Company plans to use the net proceeds of the ATM offering for general corporate purposes including, but not limited to working capital expenditures, research and development expenditures, and clinical trial expenditures. During the six months ended September 30, 2022, the Company issued 656,656 common shares for gross proceeds of US\$0.8 million at an average price of US\$1.20. The Company received, net of commissions, US\$0.7 million. In total, the Company incurred share issuance costs (including commissions) of US\$0.1 million.

Warrants

During the six months ended September 30, 2022, no warrants were exercised.

RESEARCH & DEVELOPMENT UPDATE

Our Pipeline of Superkines



Bizaxofusp (formerly named MDNA55) for the treatment of recurrent Glioblastoma

Glioblastoma (GBM) is one of the most complex, deadly, and treatment-resistant cancers. In 2023 it is expected that in the US and Canada, there will be at least 15,000 new diagnosis of GBM with more than 10,000 individuals succumbing to the disease in one year. The five-year survival rate for GBM patients is only 6.9 percent, with survival rates and mortality statistics remaining virtually unchanged for decades².

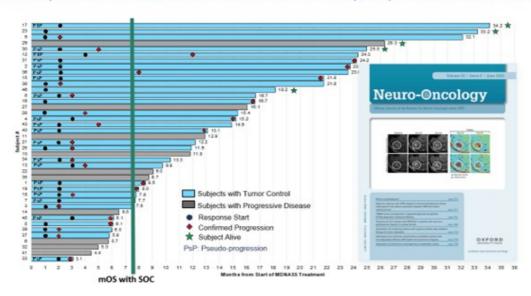
Despite first being identified in the scientific literature in the 1920's, there have only been four drugs and one device ever approved by the FDA specifically for the treatment of GBM. None of these treatments have succeeded in significantly extending patient lives beyond a few extra months for newly diagnosed GBM and a few extra weeks for patients with recurrent GBM (rGBM). Glioblastoma is also one of the more expensive cancers to treat, often leaving patients and families with major financial hardship on top of the burdens of the disease. Given the limitation of all current therapeutics, the development of novel approaches to treating glioblastoma and rGBM, remains a great unmet need.

 $^{^2\} https://braintumor.org/events/glioblastoma-awareness-day/about-glioblastoma/about-g$

Bizaxofusp is a fusion of a circularly permuted version of IL-4, fused to a potent fragment of the bacterial toxin, Pseudomonas exotoxin, and is designed to preferentially target tumor cells that over-express the interleukin 4 receptor ("IL-4R"). Bizaxofusp is delivered locally into the tumor, bypassing the bloodbrain barrier. Bizaxofusp holds a FastTrack and Orphan Drug status from the U.S. Food and Drug Administration (FDA) and FDA/European Medicines Agency, respectively.

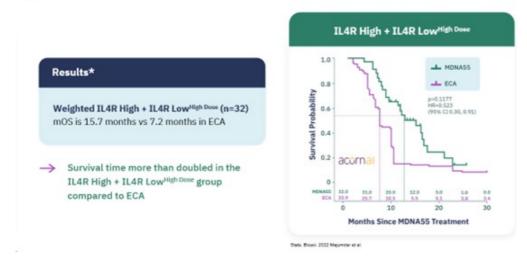
Bizaxofusp has successfully completed a Phase 2b (N=44) trial for recurrent glioblastoma where it has doubled the Overall Survival (OS) versus the Standard of Care (SOC). The Phase 2b clinical trial was completed in a multi-center, open-label, single-arm study in patients with first or second recurrence or progression of GBM after surgery or radiotherapy \pm adjuvant therapy or other experimental therapies. Results were published in the NeuroOncology Journal, in June 2023 (doi: 10.1093/neuonc/noac285).

Bizaxofusp Doubled Survival vs. Standard of Care (SOC) in rGBM Patients

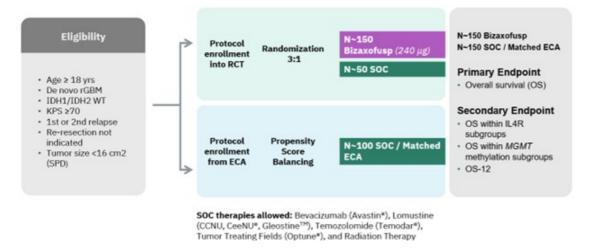


A separate analysis collected rGBM survival and prognostic data from 81 patients who had contemporaneously received treatment at major clinical centres using current SOC. This data from patient registries were used to establish a matched External Control Arm ("ECA"). The blinded survival data from the matched ECA (established by matching with the bizaxofusp-treated population based on 11 different prognostic factors using propensity scoring methods) were then used as a control arm versus survival data from the Phase 2b bizaxofusp trial. In this study, bizaxofusp demonstrated an improvement of 100% in median Overall Survival (mOS) versus the ECA as shown in the figure below. Follow-up results from the study are to be presented at the 28th Annual Meeting of the Society of NeuroOncology in Vancouver on November 16-19, 2023.

Improvement of ~ 100% in mOS vs External Control Arm (ECA)



Following the End of Phase 2 (EOP2) meeting, the FDA endorsed an innovative open-label hybrid Phase 3 trial that allows the use of a substantial number of patients (two-thirds) from a matched ECA to support marketing authorization of bizaxofusp for rGBM (see the graphic below).



Medicenna is pursuing strategic partnerships to assist with additional clinical development of bizaxofusp, as well as preparing the program for commercialization and its subsequent launch in various countries where marketing authorization has been granted. During the six months ended September 30, 2023, the Company has spent \$0.3 million related to the bizaxofusp program and estimates that the total costs of completion of a pivotal registrational trial, associated regulatory and manufacturing activities and preparing bizaxofusp for commercial launch to be approximately \$60 to \$80 million.

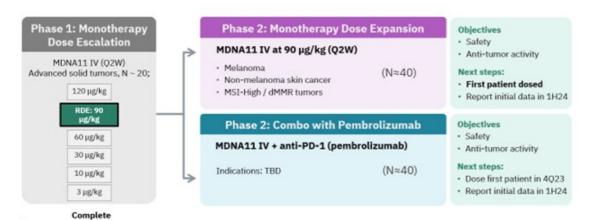
Through confidential primary market research conducted for the Company, bizaxofusp has a market potential of more than US\$800M annually for glioblastoma alone. In addition, metastatic IL-4R positive brain tumors account for ~US\$4B market.

MDNA11

MDNA11, a next-generation long-acting beta-enhanced not-alpha IL-2 super agonist. MDNA11 comprises a molecule of human albumin that accumulates in tumors and augments MDNA11's half-life. MDNA11 is currently being evaluated in the ABILITY Phase 1/2 study in patients with melanoma and other solid cancers. The ABILITY Study is a global, multi-center, open-label study that assesses the safety, tolerability and anti-tumor activity of MDNA11 as monotherapy or in combination with pembrolizumab (Keytruda®). The figure below describes the ABILITY Phase 1/2 study with objectives and upcoming milestones.

ABILITY Phase 2 Study: Dose Expansion & Combination with Pembrolizumab

Global, multi-center, open-label study underway



On August 9, 2023, Medicenna held a R&D day webcast where Dr. Arash Yavari, Chair of the Company's Development Advisory Committee (DAC), presented a clinical update on the monotherapy dose escalation portion of the ABILITY Study. Key findings from the dose escalation portion of the ABILITY Study include:

- <u>Favorable safety profile</u>: MDNA11 was generally well tolerated across cohorts, with the majority of adverse events (AEs) being grade 1 or 2, with no grade 4 or 5 AEs.
- · <u>Promising single-agent activity and durable tumor control</u>: Several patients exhibited encouraging evidence of single-agent activity with tumor control observed in 7 of 19 evaluable patients (37%).
- · <u>Confirmed partial response to single-agent MDNA11 in a highly aggressive tumor type</u>: A patient in cohort 4 (60ug/kg dose) with metastatic pancreatic ductal adenocarcinoma (PDAC), who had failed to respond to multiple prior systemic therapies, continues to show tumor shrinkage of all metastatic lesions in the liver after each successive scan. The most recent scan showed an 80% decrease in total tumor size with complete regression of 2 out of 3 lesions. This patient continues on study treatment with MDNA11.
- · <u>Prolonged stable disease in metastatic melanoma progressed on prior immune checkpoint inhibition:</u> A patient in cohort 2 (commenced on 10 ug/kg dose and subsequently increased to 30, 60 and 90 ug/kg), having failed prior immunotherapy, experienced stable disease for 84 weeks.
- · Pharmacodynamic data on effector anti-tumor immune cells continue to support the mechanistic rationale for MDNA11's promising anti-tumor activity, with MDNA11 inducing robust expansion of a population of potent activated CD8⁺T cells and increasing NK cells, but with limited expansion of Tregs which can suppress anti-tumor immunity.

Based on the totality of the dose escalation data, a Recommended Dose Expansion (RDE) of 90 ug/kg given every other week by IV infusion has been chosen for the monotherapy expansion phase of the trial.

Selection of specific cancers for evaluation in the monotherapy dose expansion phase was determined based on clinical data available from the ABILITY-1 Study, discussions with Medicenna's Clinical Advisory Board ("CAB") and other expert KOLs, and an understanding of the immunobiology of the selected tumor types and the potential for MDNA11 monotherapy in the post-checkpoint inhibitor setting. The following tumor types will be recruited in the dose expansion phase of the study:

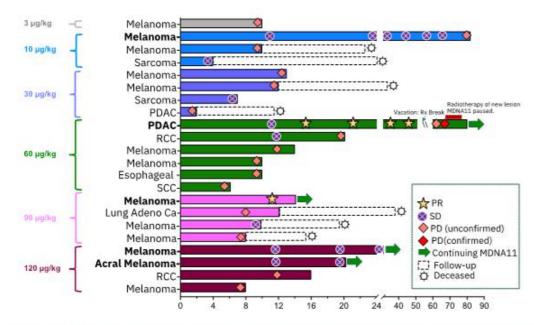
- Melanoma
- Non-Melanoma Skin Cancers
- Microsatellite Instability-High (MSI-H) or deficient DNA mismatch repair (dMMR) cancers. This population was selected to determine if the
 response achieved in the PDAC patient may have been due to the MSI-H profile. The PDAC patient unequivocally progressed on Keytruda, which
 is approved for MSI-H cancers.

On October 25, 2023, Medicenna reported that the first patient was dosed in the monotherapy dose expansion portion of the study. The combination dose expansion with pembrolizumab is expected to begin before the end of calendar 2023. Preliminary data from the dose expansion study is expected to be presented in the first half of calendar 2024.

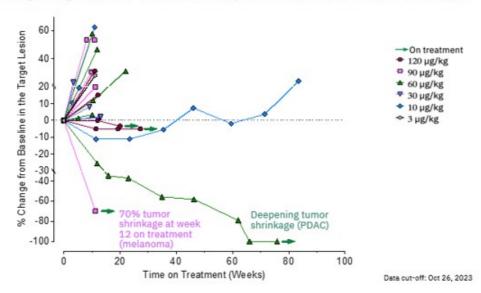
At the 38th Annual Meeting of the SITC held in San Diego held from November 1-5, 2023, Medicenna presented an update from the Phase 1/2 ABILITY Study. Key clinical data are summarized below and also shown graphically:

- o MDNA11 continues to demonstrate encouraging single-agent activity from the dose escalation and evaluation portion of the ABILITY-1 study, including ongoing partial response with 100% reduction of target and non-target lesions in one pancreatic cancer patient and 70% reduction of target lesion at first on-study evaluable scan in one melanoma patient.
- o MDNA11 showed durable stable disease in 3 melanoma patients for longer than 5 months, with one patient showing durable stable disease for 18 months, with concomitant shrinkage of target lesions, following prior failure with immune check-point therapies.
- o At dose levels above 60 mg/kg, MDNA11 achieved a disease control rate of 33.3% (2 PRs and 3 durable SDs in 15 patients).
- o MDNA11 is generally well tolerated with no dose-limiting toxicities for vascular leak syndrome reported in any of the monotherapy dose escalation cohorts.
- o Vast majority (95.6%) of treatment related adverse events were grade 1-2 severity and resolved within 48 hours; grade 3 TRAEs mainly constituted transient LFT elevations; no grade 4 or 5 events were reported.
- O Pharmacodynamic response showed robust expansion and activation (CD25 and OX40) of CD8⁺ T cells with some expansion of NK cells and limited increase in number of immune-suppressive Treg cells, in all dose cohorts and particularly at 90 mg/kg.
- o Target dose of 90 mg/kg (following 2 step-up doses of 30 and 60 mg/kg) Q2W by IV infusion was chosen as the Recommended Dose for Expansion (RDE) in the monotherapy expansion portion of the ABILITY study.

2 Partial Responses (PR) and 3 Durable Stable Diseases (SD) with single-agent MDNA11:



MDNA11: Single-Agent Anti-Tumor Activity in Pre-treated Cancer Patients



In addition to general clinical expenses, which are distributed amongst the various clinical projects, \$12.4 million is currently estimated to be allocated to the Phase 2 monotherapy dose expansion trial and the Phase 2 combination trial with Merck's pembrolizumab. In the six months ended September 30, 2023, \$2.8 million has been spent and a total of \$5.8 million is estimated to be spent in fiscal 2024.

IL-4 and IL-13 Superkines in preclinical development

Medicenna's IL-4 and IL-13 Superkines, licensed from Stanford, are engineered cytokines which possess enhanced affinity and selectivity for either the Type 1 or Type 2 IL-4 receptors or dedicated IL13 receptors such as IL13Ra2. This selectivity is achieved through mutations of the IL-4 or IL-13 cytokines to enhance affinity for binding to specific IL4R or IL13R subunits. Additional mutations have also been engineered to modulate their bioactivity, resulting in Superkines with enhanced signalling (super-agonists) or the ability to block signalling (super-antagonists).

MDNA413: An IL-4/IL-13 Dual Super-Antagonist

One promising IL-13 Superkine antagonist is MDNA413. Compared to wild-type IL-13, MDNA413 has been engineered to have a 2,000-fold higher selectivity for the Type 2 IL4R and potently blocks IL-4 and IL-13 signalling (Moraga et al., 2015). Blocking of Type 2 IL4R by MDNA413 may be relevant not only for targeting solid tumors that overexpress this receptor, but also the Th2-biased tumor microenvironment, which shields cancer from the immune system.

We believe that MDNA413's ability to block IL-4/IL-13 signalling has the potential to address a significant unmet medical need for effective therapies against immunologically cold tumors which are often resistant to checkpoint inhibitors and other immunotherapeutic agents due to their immunosuppressive tumor microenvironment ("TME").

MDNA132 and MDNA213: High Affinity Cancer-Specific Targeting Ligands

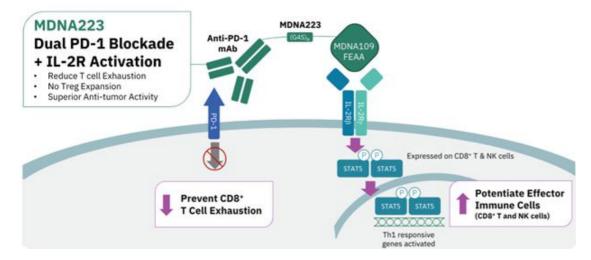
Another promising IL-13 Superkine is MDNA132, and its variant, MDNA213. Unlike MDNA413, MDNA132 and MDNA213 are IL-13 ligands that have been engineered to increase affinity for IL13Ra2 overexpressed on certain solid tumors while exhibiting sharply decreased affinity for IL13Ra1. Medicenna believes MDNA132 and MDNA213 have superior targeting compared to other IL-13 variants in development, and is an attractively differentiated targeting domain for (a) cell-based immunotherapies (such as those using chimeric antigen receptors or CARs); (b) potent payloads used in antibody-drug conjugates ("ADC"); (c) targeted fusion toxins or (d) radiopharmaceuticals. Development timelines for MDNA132 and MDNA213 have yet to be established. MDNA132 and/or MDNA213 are also being evaluated as potential fusion proteins in our BiSKITsTM and the T-MASKTM platforms.

On April 17, 2023, we announced that new preclinical data characterizing the Interleukin 13 ("IL-13") Superkines, MDNA132 and MDNA213, and a series of next generation IL-13 Superkine therapies, were presented at the AACR Annual Meeting, which took place in Orlando, Florida, from April 14 to 19, 2023. The AACR poster included data demonstrating that both MDNA132 and MDNA213 exhibit highly selective binding to the IL-13 decoy receptor (IL-13R α 2) and, in a murine model, selectively accumulate in the TME for several days. MDNA132 and MDNA213 exhibit high affinity and selectivity for the IL13R α 2, which is overexpressed in various tumors such as pancreatic, prostate, bladder, colorectal, breast and lung cancer but minimally expressed in healthy tissues. High expression of IL13R α 2 in these tumors is generally associated with more aggressive cancer and poor survival outcomes.

BiSKITsTM (Bi-functional SuperKine ImmunoTherapies) Platform

Our BiSKITsTM platform allows us to develop designer Superkines by fusing them to other proteins, checkpoint inhibitors, antibodies or cytokines to our IL-2, IL-4 and/or IL-13 Superkines in order to combine two distinct and yet synergistic mechanisms of action into one molecule: a BiSKITTM.

MDNA223 is a fusion of Medicenna's IL-2 Superkine with an anti-PD1 antibody, designed to maximize anti-tumor response by concurrently facilitating IL-2R pathway stimulation and PD1 checkpoint blockade on the same effector immune cell as described in the figure below.



On October 3, 2023, we presented a poster at the AACR Special Conference in Cancer Research: Tumor Immunology and Immunotherapy with preclinical data demonstrating that the MDNA223 BiSKIT:

- · Showed enhanced IL-2Rbeta selectivity and no binding to IL-2Ralpha, leading to preferential stimulation of CD8+ T cells over Tregs in human PBMCs.
- · Retained high affinity to PD-1, generating potent blockade of PD-1/PD-L1 mediated exhaustion of T cells,
- · Induced durable proliferation and expansion of CD8+ T cells in the periphery, and enhanced tumor infiltration of functionally active CD8+ T cells,
- Demonstrated superior efficacy and survival benefit in multiple syngeneic tumor models, including "cold" tumors compared to co-administration (combination) of anti-PD1 and IL-2 agonist,
- Synergized with agonist of the STING (Stimulator of Interferon Genes) pathway to enhance tumor inhibition and promote an abscopal effect as demonstrated by shrinkage of the untreated tumor on opposite flank,
- Enhanced tumor response while being well-tolerated in a step-up dosing setting.
- The sum of encouraging preclinical data on MDNA223 highlights the potential of Medicenna's BiSKITTM platform to broadly deliver effective therapy to otherwise challenging-to-treat 'cold' tumors.

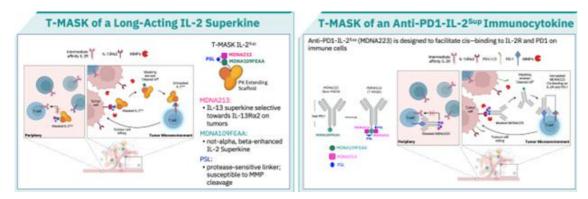
Medicenna is currently screening and optimizing a variety of IL-2/IL-4/IL-13 Superkines as part of our BiSKITsTM platform. As preparing, submitting, and advancing applications for regulatory approval, developing drugs and drug product and clinical trials are sometimes complex, costly, and time-consuming processes, an estimate of the future costs is not reasonable at this time.

T-MASK (Targeted Metallo/protease Activated SuperKine) Platform

Our T-MASK platform involves fusion of a dual IL-13 tumor targeting/masking domain to an IL-2 superkine or IL-2 BiSKIT (BiFunctional SuperKine ImmunoTherapies) via a matrix metalloprotease (MMP) sensitive linker (PSL), to provide the following unique features:

- o Tunable blockade of IL-2R agonism to reduce peripheral immune stimulation for enhanced tolerability
- o Tumor targeting to IL-13Ra2 highly expressed in a broad range of cancer indications but not normal tissues
- o Cleavage and release of IL-13 tumor-targeting/masking domain by MMPs restores IL-2R agonism within the tumor microenvironment (TME).

Proposed mechanism of action of the T-MASK platform is shown in the figures below for a long-acting IL-2 superkine (IL-2^{Sup}) and an IL-2 BiSKIT (MDNA223; Anti-PD1-IL-2^{Sup})



At the 38th Annual Meeting of the SITC held in San Diego from November 1-5, 2023, Medicenna presented preclinical data on characterization of its T-MASK platform, exemplified by T-MASK versions of long-acting IL-2 superkine and MDNA223, an anti-PD1-IL-2 BiSKIT. Key features of the platform and preclinical data presented in the conference are summarized below:

- o The IL-13 superkine acts as an effective dual tumor targeting and masking domain to selectively deliver potent immune modulators to the tumor microenvironment where they are activated by cancer specific enzymes.
- o IL-13Ra2 is highly expressed in a broad range of aggressive tumors at an annual rate of more than 2M cases worldwide, and include some of the most immunologically 'cold' tumors .³
- o MDNA113 is a first-in-class IL-13Ra2 targeted therapy that delivers a masked anti-PD1-IL-2 bi-functional superkine to the tumor microenvironment.
- o MDNA113 showed reduced potency in IL-2 signaling assays but activity was restored upon MMP cleavage to remove the IL-13 Mask
- Masking had no effect on blockade of PD1/PD-L1 immune suppressive signaling in vitro.
- o Systemic administration of MDNA113 in mice showed reduced peripheral immune cell expansion compared to non-masked version.
- o MDNA113 is as effective as its non-masked version at inhibiting tumor growth in mouse cancer models.
- o The level of masking is tunable and avoids complete blockade of the immune modulator thereby retaining good tolerability while achieving adequate immune stimulation during transit to the tumor micro-environment.

Medicenna is currently screening and optimizing a variety of IL-2/IL-4/IL-13 Superkines as part of our BiSKITsTM and T-MASK platforms. Additional funding will be necessary to advance one or more of these product candidates into clinical trials. As preparing, submitting, and advancing applications for regulatory approval, developing drugs and drug product and clinical trials are sometimes complex, costly, and time consuming processes, an estimate of the future costs is not reasonable at this time.

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³ https://www.futuremedicine.com/doi/10.2217/imt.12.28

SELECTED FINANCIAL INFORMATION

Total assets

Total liabilities

Working capital

Accumulated deficit

Total shareholder's equity (deficiency)

All tabular amounts below are presented in thousands of Canadian dollars, except for per share amounts.

	September 30	September 30,		ber 30,
	2023	2022	2023	2022
Statements of loss and comprehensive loss data:	\$	\$	\$	\$
General and administration	2,303	2,371	3,950	4,290
Research and development	3,134	2,362	5,946	4,773
Total operating expenses	5,437	4,733	9,896	9,063
Finance income	(342)	(162)	(688)	(192)
Change in fair value of warrant derivative	(960)	(1,800)	(2,707)	(1,800)
Foreign exchange (gain) loss	(412)	(1,875)	84	(2,020)
Net Loss	(3,723)	(896)	(6,585)	(5,051)
Basic and diluted loss per share	(0.05)	(0.01)	(0.09)	(80.0)
			As of	F
		Septem	ber 30, 2023	March 30, 2023
Statement of financial position:				
			\$	\$
Cash			25,687	33,596

Three months ended

Six months ended

27,743

23,989

(87,566)

23,437

4,306

The Company has not generated revenue in any of the previous fiscal years, other than income from interest earned on our cash and cash equivalents.

For the three and six months ended September 30, 2023, the Company reported a net loss of \$3.7 million (\$0.05 loss per share), and \$6.6 million (\$0.09 loss per share), compared to a net loss of \$0.9 million (\$0.01 loss per share) and \$5.1 million (\$0.08 loss per share), respectively for the three and six months ended September 30, 2022. The increase in net loss for the three and six months period ended September 30, 2023, compared with the period ended September 30, 2022, was primarily a result of increased research and development expenditures related to the clinical costs associated with the MDNA11 ABILITY-1 study, and increased licensing and patent legal fees. There was a foreign exchange gain of \$0.4 million, and a loss of \$0.1 million during the three- and six-month period ended September 30, 2023, compared to a gain of \$1.9 million and \$2.0 million, respectively in the three and six month period ended September 30, 2022, as a result of gain on USD cash and cash equivalents. There was a non-cash change in the fair value of the warrant derivative (gain) of \$1.0 million, and \$2.7 million for the three and six month period ended September 30, 2023.

36,446

6,960

32,585

(80,981)

29,486

RESULTS OF OPERATIONS FOR THE THREE AND SIX MONTHS ENDED SEPTEMBER 30, 2023

Research and Development ("R&D") Expenses

	Three months ended September 30,		Six months ended September 30,	
	2023	2022	2023	2022
	\$	\$	\$	\$
Clinical	1,394	901	2,091	1,531
Salaries and benefits	654	545	1,154	1,059
Licensing, patent legal fees and royalties	442	275	857	436
Discovery and pre-clinical	369	401	886	871
Chemistry, manufacturing, and controls	275	45	771	540
Regulatory	23	9	50	37
Stock based compensation	167	185	302	296
Research and development tax credits	(200)	-	(200)	-
Other research and development expenses	10	1	35	3
	3,134	2,362	5,946	4,773

R&D expenses of \$3.1 million and \$5.9 million were incurred during the three and six months ended September 30, 2023, compared with \$2.4 million and \$4.8 million incurred during the three and six months ended September 30, 2022.

The increase in R&D expenses in the three and six months ended September 30, 2023, compared to the three and six months ended September 30, 2022 is primarily attributable to:

- · increased licensing and patent legal fees, related to timing as well as intellectual property activities in the current year quarter;
- · higher clinical costs related to the MDNA11 ABILITY-1 Study in the current year period; and
- · increased salaries and benefits, due to increase in headcount to support the MDNA11 ABILITY-1 Study.

General and Administrative ("G&A") Expenses

	Three months ended September 30,		Six months ended September 30	
	2023	2022	2023	2022
	\$	\$	\$	\$
Public company expenses	1,350	1,097	2,420	2,374
Salaries and benefits	627	226	891	448
Facilities and operations	224	149	376	273
Stock based compensation	101	245	261	541
Transaction costs, warrant derivative	-	652	-	652
Depreciation expense	1	2	2	2
	2,303	2,371	3,950	4,290

G&A expenses of \$2.3 million and \$4.0 million were incurred during the three and six months ended September 30, 2023, compared with \$2.4 million and \$4.3 million during the three and six months ended September 30, 2022.

The decrease in G&A expenses in the three and six months ended September 30, 2023, compared to the three and six months ended September 30, 2022, was primarily attributable to a reduction in directors and officers liability insurance premiums, partially offset by higher salaries and benefits, due to increased headcount to the executive leadership team. One-time transaction costs associated with warrant derivative contributed to higher G&A expenses in the three and six months ended September 30, 2022.

SUMMARY OF QUARTERLY FINANCIAL RESULTS:

	Sep. 30 2023	Jun. 30 2023	Mar. 31 2023	Dec. 31 2022	Sep. 30 2022	Jun. 30 2022	Mar. 31 2022	Dec. 31 2021
	\$	\$	\$	\$	\$	\$	\$	\$
Revenue	-	-	-	-	-	-	-	-
General and administration	2,303	1,647	1,385	1,976	1,719	1,919	1,936	1,990
Research and development	3,134	2,812	1,586	2,945	2,362	2,411	1,191	2,907
Change in fair value of warrant derivative	(960)	(1,747)	1,200	(3,747)	(1,800)	-	-	-
Net loss	(3,723)	(2,862)	(3,856)	(1,141)	(896)	(4,155)	(3,206)	(4,807)
Basic and diluted loss per share	(0.05)	(0.04)	(0.06)	(0.02)	(0.01)	(0.07)	(0.06)	(0.09)
Total assets	27,743	31,546	36,446	38,174	42,560	20,140	23,456	26,107
Total liabilities	4,306	4,646	6,960	4,949	8,644	2,147	2,621	2,351

R&D expenses fluctuate quarter over quarter based on activities ongoing during that period. Refundable tax credits of \$0.7 million contributed to a decrease in R&D expenses during the quarter ended March 31, 2022 and during the quarter ended March 31, 2023. R&D expenses increased in the quarter ended December 31, 2022, the quarter ended June 30, 2023, and quarter ended September 30, 2023 due to timing of activity in the MDNA11 ABILITY Study.

G&A expenses have remained relatively consistent quarter over quarter. From the quarter ended September 30, 2022, onwards, G&A expenses decreased as directors and officers' liability insurance annual premium decreased on renewal. G&A expenses increased in the quarter ended September 30, 2023, due to increase in headcount.

There was a non-cash change in the fair value of the warrant derivative (gain) loss from the quarter ended September 30, 2022 onwards. The fair value of the warrant derivative will fluctuate quarterly due to volatility of share price, expected dividend yield and expected risk-free interest rate.

LIQUIDITY AND CAPITAL RESOURCES

Since inception, the Company has devoted its resources to funding R&D programs, including securing intellectual property rights and licenses, conducting discovery research, manufacturing drug supplies, initiating preclinical and clinical studies, submitting regulatory dossiers and providing administrative support to R&D activities, which has resulted in an accumulated deficit of \$87.6 million as of September 30, 2023. With current revenues only consisting of interest earned on excess cash, cash equivalents and marketable securities, losses are expected to continue while the Company's R&D programs are advanced.

We currently do not earn any revenues from our product candidates and are therefore considered to be in the development stage. As required, the Company will continue to finance its operations through the sale of equity or pursue non-dilutive funding sources available to the Company in the future. The continuation of our research and development activities for bizaxofusp, MDNA11, the BiSKITsTM and T-MASKTM platforms and the commercialization of bizaxofusp is dependent upon our ability to successfully finance and complete our research and development programs through a combination of equity financing and revenues from strategic partners. We have no current sources of revenues from strategic partners.

Management has forecasted that the Company's current level of cash will be sufficient to execute its current planned expenditures into Q1 of calendar 2025. The Company has the ability to reduce or eliminate planned expenditure to extend its operating runway if it is unable to obtain additional financing when required. The Company's ability to continue as a going concern into Q1 calendar 2025 is dependent on its ability to secure additional financing.

These circumstances cast substantial doubt as to the ability of the Company to continue as a going concern and, hence, the appropriateness of the use of accounting principles applicable to a going concern.

The following table summarizes the Corporation's cash flows for the periods indicated:

	Six Months ended September 30		
	2023	2022	
Net cash (used in) provided by:			
Operating activities	(7,389)	(6,709)	
Financing activities	-	24,813	
Net increase (decrease) in cash and cash equivalents	(7,389)	18,104	

Cash utilized in operating activities for the six months ended September 30, 2023 was \$7.4 million, compared to the six months ended September 30, 2022 of \$6.7 million. The increase in cash utilized in the six months ended September 30, 2023, compared to the six months ended September 30, 2022 is primarily as a result of increased research and development expenses and changes in working capital.

Cash provided by financing activities for the six months ended September 30, 2022 is comprised of an underwritten public offering completed on August 10, 2022 (the "August 2022 Public Offering"). Total proceeds of the August 2022 Public Offering, net of issuance costs were \$23.9 million. The remaining cash provided by financing activities was from the 2020 ATM Facility.

CASH POSITION

At September 30, 2023, we had a cash and cash equivalents balance of \$25.7 million, compared to \$33.6 million at March 31, 2023. We invest cash in excess of current operational requirements in highly rated and liquid instruments. Working capital at September 30, 2023 was \$23.9 million (March 31, 2023 - \$32.6 million). These funds are expected to provide the Company with sufficient capital to execute its current planned expenditures through the key milestones associated with the ABILITY Study and into calendar Q1 2025 based on its current plans and projections.

We do not expect to generate positive cash flow from operations for the foreseeable future due to additional R&D expenses, including expenses related to drug discovery, preclinical testing, clinical trials, chemistry, manufacturing and controls and operating expenses associated with supporting these activities. It is expected that negative cash flow from operations will continue until such time, if ever, that we receive marketing authorization to commercialize any of our product candidates under development and/or royalty or milestone revenue from any such products should they exceed our expenses.

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CONTRACTUAL OBLIGATIONS

CPRIT Assistance

In February 2015, the Company received notice that it had been awarded a grant by the CPRIT whereby the Company was eligible to receive up to US\$14.1 million on eligible expenditures over a three-year period related to the development of the Company's Phase 2b clinical program for bizaxofusp. As of March 31, 2022, all of the US\$14.1 million had been received and the grant with CPRIT was complete.

Under the terms of the grant, the Company is required to pay a royalty to CPRIT, comprised of 3-5% of revenues on net sales of bizaxofusp until aggregate royalty payments equal 400% of the grant funds received at which time the ongoing royalty will be 0.5% of revenues. At this time the royalty is not probable and therefore no liability has been recorded. In addition, the Company must maintain a presence in Texas for three years following completion of the grant.

Refundable tax credits

In July 2023, the Company received \$0.7 million through our Australian R&D incentive program relating to the year ended March 31, 2023 (March 31, 2022: \$0.7 million). The amount receivable was recorded as a reduction in research and development expenses in the year ended March 31, 2023.

In September 2023, the Company received \$0.1 million through the Canadian scientific research and experimental development (SR&ED) relating to the year end March 31, 2021. The Company is entitled to receive \$0.2 million through our SR&ED program relating to the year ended March 31, 2022. The amount receivable is recorded as a reduction in research and development expenses in the three months ended September 30, 2023.

Intellectual Property

The Company has entered into various license agreements with respect to accessing patented technology. In order to maintain these agreements, the Company is obligated to pay certain costs based on timing or certain milestones within the agreements, the timing of which is uncertain. These costs include ongoing license fees, patent prosecution and maintenance costs, royalty and other milestone payments. As of September 30, 2023, the Company is obligated to pay the following:

• given the current development plans and expected timelines of the Company, it is assumed that project milestones of US\$1.7 million will be due in the next five years.

As part of these license agreements, the Company has committed to make certain royalty payments based on net sales to the FDA, NIH and Stanford.

OFF-BALANCE SHEET ARRANGEMENTS

The Company has no material undisclosed off-balance sheet arrangements that have, or are reasonably likely to have, a current or future effect on our results of operations, financial condition, revenues or expenses, liquidity, capital expenditures or capital resources that is material to investors.

TRANSACTIONS WITH RELATED PARTIES

Key management personnel, which consists of the Company's officers (Dr. Fahar Merchant, President and Chief Executive Officer, Ms. Rosemina Merchant, Chief Development Officer, Jeff Caravella, former Chief Financial Officer, Brent Meadows, former Chief Business Officer, and Ms. Elizabeth Williams, former Chief Financial Officer) and directors, received the following compensation for the following periods:

		Three months ended September 30,		ded 0,
	2023	2022	2023	2022
	\$	\$	\$	\$
Salaries and wages	724	252	977	505
Board fees	101	76	179	152
Stock option expense	184	369	427	711
	1,009	697	1,583	1,368

As at September 30, 2023, the Company had trade and other payables in the normal course of business, owing to directors and officers of \$0.4 million (2022: \$0.1 million) related to accrued bonuses, board fees and accrued vacation.

CRITICAL ACCOUNTING POLICIES AND ESTIMATES

The significant accounting policies of the Company are described in note 2 of the Annual Financial Statements and available on SEDAR+ at www.sedarplus.ca and included in the Annual Report on Form 20-F filed on EDGAR at www.sec.gov.

Estimates and assumptions are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances. The determination of estimates requires the exercise of judgement based on various assumptions and other factors such as historical experience and current and expected economic conditions. Actual results could differ from those estimates. Critical judgements in applying the Company's accounting policies are detailed in the Annual Financial Statements, filed on SEDAR+ at www.sedarplus.ca and included in the Annual Report on Form 20-F filed on EDGAR at www.sec.gov.

FINANCIAL INSTRUMENTS

Financial instruments are defined as a contractual right or obligation to receive or deliver cash on another financial asset. The Company recognizes financial instruments based on their classification. Depending on the financial instrument's classification, changes in subsequent measurements are recognized in net loss or other comprehensive loss.

A description of the financial instruments, their fair value and risk management is included in notes 2, 5 and 6 of the Annual Financial Statements, filed on SEDAR+ at www.sedarplus.ca and included in the Annual Report on Form 20-F filed on EDGAR at www.sec.gov/edgar.

2020 PUBLIC OFFERING AND USE OF PROCEEDS

The following table provides an update on the anticipated use of proceeds raised as part of the 2020 public offering of Common Shares (the "2020 Public Offering"), which initially closed on March 17, 2020, along with amounts actually expended. Following completion of the 2020 Public Offering, Medicenna selected MDNA11 as its lead IL-2 candidate over MDNA19 to progress to the clinic and, as such, proceeds from the 2020 Public Offering, which were initially allocated to the development of MDNA19, have been re-directed to the development of MDNA11 in the same proportions. As of September 30, 2023, the following expenditures had been incurred (in thousands of Canadian dollars):

Item	Amount to Spend	Spent to Date	Adjustments	Remaining to Spend
Preclinical development	\$ 3,300	\$ 3,300	-	-
Manufacturing of clinical batch	\$ 4,400	\$ 4,400	-	-
Clinical development	\$ 13,150	\$ 11,902	-	\$ 1,248
General corporate and working capital purposes	\$ 11,350	\$ 11,350	-	-
Total	\$ 32,200	\$ 30,952	\$ -	\$ 1,248

2022 PUBLIC OFFERING AND USE OF PROCEEDS

The following table provides an update on the anticipated use of proceeds raised under an underwritten public offering of units, with each unit consisting of one Common Share and one Common Share purchase warrant, on August 11, 2022 (the "2022 Public Offering"), along with amounts actually spent. As of September 30, 2023, the following expenditures had been incurred (in thousands of US dollars):

Item	Amount to Spend	Spent to Date	Adjustments	Remaining to Spend
Phase 1/2 MDNA11 ABILITY Study	US\$ 8,000	-	-	US\$ 8,000
General corporate purposes and pre-clinical development of a BiSKIT candidate	US\$ 8,000	US\$ 953	-	US\$ 7,047
Total	US\$ 16,000	US\$ 953	\$ -	US\$ 15,047

RISKS AND UNCERTAINTIES

The Company is an immunotherapy company that operates in a highly competitive industry that is dependent on a number of factors that include the Company's capacity to raise additional funding on reasonable terms when necessary, secure partnerships for the development of its product candidates, obtain necessary regulatory approvals and achieve market acceptance, face disruption in availability of key components for ongoing clinical studies, obtain positive results from pre-clinical and clinical studies, successfully develop existing and new products, hire and retain skilled staff and key personnel, rely on third-party providers, protect its intellectual property and face litigation risk in connection thereof. An investment in the Common Shares is subject to a number of risks and uncertainties, including the risks related to the Company being a foreign private issuer.

In addition, the Company may, from time to time, announce or publish preliminary or interim data from its clinical trials. Preliminary and interim data remains subject to audit and verification procedures that may result in the final data being materially different from the preliminary or interim data. Preliminary and interim results of a clinical trial are not necessarily predictive of final results. There can be no assurance that favorable interim or preliminary data will result in favorable final data. Preliminary and interim data are subject to the risk that one or more of the clinical outcomes may materially change as patient enrollment continues, patient data are further examined and reviewed, more patient data become available, and the Company prepares and issues its final clinical study report. As a result, preliminary and interim data should be viewed with caution until the final, complete data are available. Material adverse changes in the final data compared to the preliminary or interim data could significantly harm the Company's business, prospects, financial condition and results of operations.

An investor should carefully consider these risks, as well as the risks described in the Company's Annual Report on Form 20-F, as well as the other information filed with the securities regulators before investing in the Common Shares. If any of such described risks occur, or if others occur, the Company's business, financial condition and the results of operations could be seriously harmed, and investors could lose all or part of their investment.

There are important risks which management believes could impact the Company's business. For information on risks and uncertainties, please also refer to the "Risk Factors" section of the Company's most recent Annual Report on Form 20-F filed on SEDAR+ at www.sedarplus.ca and EDGAR at www.sec.gov/edgar.

DISCLOSURE CONTROLS AND INTERNAL CONTROL OVER FINANCIAL REPORTING

The Company has implemented a system of internal controls that it believes adequately protects the assets of the Company and is appropriate for the nature of its business and the size of its operations. The internal control system was designed to provide reasonable assurance that all transactions are accurately recorded, that transactions are recorded as necessary to permit preparation of financial statements in accordance with IFRS and that our assets are safeguarded.

These internal controls include disclosure controls and procedures designed to ensure that information required to be disclosed by the Company is accumulated and communicated as appropriate to allow timely decisions regarding required disclosure.

Internal control over financial reporting means a process designed by or under the supervision of the Chief Executive Officer and the Vice President of Finance to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with IFRS as issued by the IASB.

The internal controls are not expected to prevent and detect all misstatements due to error or fraud. There were no changes in our internal control over financial reporting that occurred during the three and six months ended September 30, 2023, that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

As of September 30, 2023, the Company's management assessed the effectiveness of our internal control over financial reporting and disclosure controls and procedures using the Committee of Sponsoring Organizations of the Treadway Commission's 2013 framework. Based on their evaluation, the Chief Executive Officer and the Vice President of Finance have concluded that these controls and procedures are effective.

OUTSTANDING SHARE DATA

As at the date of this report, the Company has the following securities outstanding:

	Number
Common Shares	69,637,469
Warrants	16,185,386
Stock options	6,739,124
Total	92,561,979

For a detailed summary of the outstanding securities convertible into, exercisable or exchangeable for voting or equity securities of Medicenna as at March 31, 2023, refer to notes 9, 10, and 11 of the Annual Financial Statements of the Company.

ADDITIONAL INFORMATION

Additional information relating to the Company, including the Company's Annual Report on Form 20-F, is available under the Company's profile on SEDAR+ at www.sedarplus.ca and EDGAR at www.sec.gov, respectively.

FORM 52-109F2 CERTIFICATION OF INTERIM FILINGS FULL CERTIFICATE

- I, Fahar Merchant, Chairman, President and Chief Executive Officer of Medicenna Therapeutics Corp. ("Medicenna") certify the following:
- 1. *Review:* I have reviewed the interim financial report and interim MD&A (together, the "interim filings") of Medicenna (the "issuer") for the interim period ended September 30, 2023.
- 2. *No misrepresentations:* Based on my knowledge, having exercised reasonable diligence, the interim filings do not contain any untrue statement of a material fact or omit to state a material fact required to be stated or that is necessary to make a statement not misleading in light of the circumstances under which it was made, with respect to the period covered by the interim filings.
- 3. *Fair presentation:* Based on my knowledge, having exercised reasonable diligence, the interim financial report together with the other financial information included in the interim filings fairly present in all material respects the financial condition, financial performance and cash flows of the issuer, as of the date of and for the periods presented in the interim filings.
- 4. **Responsibility:** The issuer's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (DC&P) and internal control over financial reporting (ICFR), as those terms are defined in National Instrument 52-109 *Certification of Disclosure in Issuers'*Annual and Interim Filings, for the issuer.
- 5. *Design:* Subject to the limitations, if any, described in paragraphs 5.2 and 5.3, the issuer's other certifying officer(s) and I have, as at the end of the period covered by the interim filings
- A. designed DC&P, or caused it to be designed under our supervision, to provide reasonable assurance that
 - I. material information relating to the issuer is made known to us by others, particularly during the period in which the interim filings are being prepared; and
 - II. information required to be disclosed by the issuer in its annual filings, interim filings or other reports filed or submitted by it under securities legislation is recorded, processed, summarized and reported within the time periods specified in securities legislation; and
- B. designed ICFR, or caused it 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 the issuer's GAAP.
- 5.1 *Control framework:* The control framework the issuer's other certifying officer(s) and I used to design the issuer's ICFR is Internal Control Integrated Framework (COSO 2013 Framework) issued by the Committee of Sponsoring Organizations of the Treadway Commission.
- 5.2 ICFR material weakness relating to design: N/A
- 5.3 Limitation on scope of design: N/A
- 6. *Reporting changes in ICFR:* The issuer has disclosed in its interim MD&A any change in the issuer's ICFR that occurred during the period beginning on July 1, 2023 and ended on September 30, 2023 that has materially affected, or is reasonably likely to materially affect, the issuer's ICFR.

Date: November 14, 2023

<u>/s/ Fahar Merchant</u> Fahar Merchant

Chairman, President and Chief Executive Officer

FORM 52-109F2 CERTIFICATION OF INTERIM FILINGS FULL CERTIFICATE

- I, Eamonn Peters, Vice President, Finance, acting as Chief Financial Officer of Medicenna Therapeutics Corp. ("Medicenna") certify the following:
- 1. *Review:* I have reviewed the interim financial report and interim MD&A (together, the "interim filings") of Medicenna (the "issuer") for the interim period ended September 30, 2023.
- 2. *No misrepresentations:* Based on my knowledge, having exercised reasonable diligence, the interim filings do not contain any untrue statement of a material fact or omit to state a material fact required to be stated or that is necessary to make a statement not misleading in light of the circumstances under which it was made, with respect to the period covered by the interim filings.
- 3. *Fair presentation:* Based on my knowledge, having exercised reasonable diligence, the interim financial report together with the other financial information included in the interim filings fairly present in all material respects the financial condition, financial performance and cash flows of the issuer, as of the date of and for the periods presented in the interim filings.
- 4. *Responsibility:* The issuer's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (DC&P) and internal control over financial reporting (ICFR), as those terms are defined in National Instrument 52-109 *Certification of Disclosure in Issuers' Annual and Interim Filings*, for the issuer.
- 5. *Design:* Subject to the limitations, if any, described in paragraphs 5.2 and 5.3, the issuer's other certifying officer(s) and I have, as at the end of the period covered by the interim filings
- A. designed DC&P, or caused it to be designed under our supervision, to provide reasonable assurance that
 - I. material information relating to the issuer is made known to us by others, particularly during the period in which the interim filings are being prepared; and
 - II. information required to be disclosed by the issuer in its annual filings, interim filings or other reports filed or submitted by it under securities legislation is recorded, processed, summarized and reported within the time periods specified in securities legislation; and
- B. designed ICFR, or caused it 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 the issuer's GAAP.
- 5.1 *Control framework:* The control framework the issuer's other certifying officer(s) and I used to design the issuer's ICFR is Internal Control Integrated Framework (COSO 2013 Framework) issued by the Committee of Sponsoring Organizations of the Treadway Commission.
- 5.2 ICFR material weakness relating to design: N/A
- 5.3 Limitation on scope of design: N/A
- 6. *Reporting changes in ICFR:* The issuer has disclosed in its interim MD&A any change in the issuer's ICFR that occurred during the period beginning on July 1, 2023 and ended on September 30, 2023 that has materially affected, or is reasonably likely to materially affect, the issuer's ICFR.

Date: November 14, 2023

/s/ Eamonn Peters

Eamonn Peters

Vice President, Finance, acting as Chief Financial Officer

Medicenna Therapeutics Reports Second Quarter Fiscal 2024 Financial Results and Operational Highlights

Cash runway extended through multiple data readouts and into Q1 of calendar 2025

MDNA11 is generally well tolerated and continues to demonstrate encouraging single-agent activity from Phase 1 portion of the ABILITY-1 Study including 100% and 70% reduction of target lesions in pancreatic and melanoma cancer patients, respectively

Four-year follow-up survival results from Phase 2b bizaxofusp (MDNA55) study in patients with recurrent glioblastoma selected for presentation at SNO 2023 on November 17, 2023

TORONTO and HOUSTON, Nov. 14, 2023 (GLOBE NEWSWIRE) -- Medicenna Therapeutics Corp. ("Medicenna" or the "Company") (TSX: MDNA; OTC: MDNAF), a clinical-stage company focused on the design and development of novel evolutionary superkines to create revolutionary immunotherapies, today announced financial results and corporate highlights for the second quarter of fiscal 2024, ended September 30, 2023.

"We are pleased that our cash runway now extends through multiple data readouts in mid-2024 and into the first quarter of 2025, which provides potential opportunities for additional milestones across our programs." said Fahar Merchant, Ph.D., President, and Chief Executive Officer of Medicenna. "At SITC 2023, we shared positive clinical data readouts for MDNA11. The Phase 1 dose escalation data from the ABILITY-1 study demonstrated that MDNA11 is generally well tolerated and results in durable single-agent activity, including deep ongoing responses with 100% reduction of target lesions in a pancreatic cancer patient and 70% reduction of target lesion in a melanoma cancer patient. This week at SNO 2023, we will be reporting 4-year follow-up survival data from the Phase 2b bizaxofusp study in patients with recurrent glioblastoma, a uniformly fatal form of brain cancer."

"Another key achievement from the period was dosing the first patient in the Phase 2 dose expansion monotherapy arm of the ABILITY-1 study. In addition, we expect to commence the combination portion of the ABILITY-1 study before the end of this year evaluating MDNA11 with pembrolizumab (Keytruda®). We look forward to reporting initial Phase 2 dose expansion data from both the monotherapy and combination arms during the first half of 2024," concluded Dr. Merchant.

Pipeline Highlights

MDNA11

- Reported updated Phase 1 MDNA11 dose escalation data at SITC 2023. In early November 2023, Medicenna reported encouraging single-agent activity from the dose escalation and evaluation portion of the ABILITY-1 study in advanced cancer patients receiving doses ≥60 µg/kg of MDNA11 (N=15) and who had previously failed immune check-point inhibitor therapies. The results included ongoing partial responses with 100% and 70% reduction of target lesions in pancreatic and melanoma cancer patients, respectively, in addition to durable stable disease in 3 melanoma patients (>20 to 80 weeks).
- **Dosed first patient in Phase 2 monotherapy arm.** In October 2023, Medicenna dosed the first patient in the Phase 2 monotherapy dose expansion portion of the Phase 1/2 ABILITY study evaluating MDNA11 in patients with advanced melanoma, non-melanoma skin cancer or microsatellite instability (MSI)-high or mismatch repair (MMR) deficient cancers. Up to 40 patients are expected to be enrolled and administered MDNA11 (90 µg/kg intravenously [IV] Q2W). The Company expects to report initial data from the monotherapy arm in the first half of 2024.

Bizaxofusp (MDNA55)

- Presenting 4-Year Follow-up overall survival data from Phase 2b bizaxofusp study. A poster presentation and an oral summary highlighting long-term follow up from the Phase 2b clinical trial of bizaxofusp (formerly known as MDNA55) in patients with recurrent glioblastoma (rGBM), the Company's first-in-class IL-4R targeted therapy, will be presented at the Society for Neuro-Oncology (SNO) 2023 Annual Meeting, to be held from November 15-19, 2023, in Vancouver, Canada.
- **Exploring partnerships to fund pivotal study.** Following the print publication of the Phase 2b clinical results in the June 2023 issue of the journal *Neuro-Oncology*, where bizaxofusp demonstrated a doubling of survival versus standard of care in patients with rGBM, Medicenna has embarked on a comprehensive effort to explore partnership opportunities for a Phase 3 registration trial.

Other Pipeline Programs

- Presented preclinical data for MDNA113 at SITC 2023. Medicenna presented preclinical data for MDNA113, a first-inclass IL-13Rα2 targeted therapy that delivers a masked bi-specific IL-2-anti-PD1 Superkine to the tumor microenvironment. The data demonstrated proof-of-concept for the Company's novel T-MASK (Targeted Metalloprotease Activated SuperKine) platform technology. The data showed reduced IL-2R agonism with no change to PD1/PDL-1 blockade and reduced systemic lymphocyte expansion providing evidence of dampening of systemic activity. In addition, the preclinical data showed that cleavage of MDNA113 by tumor associated metalloproteases restores IL-2R signaling and that MDNA113 is as effective as non-masked MDNA223 (a bispecific antiPD1-IL-2 superkine) in tumor models.
- Presented preclinical data for MDNA223 at AACR's Special Conference in Cancer Research: Tumor Immunology and Immunotherapy. Medicenna presented new preclinical data on MDNA223, a fusion of MDNA11 combined with an

anti-PD1 antibody, that is designed to maximize anti-tumor response by concurrently facilitating IL-2R pathway stimulation and PD1 checkpoint blockade on the same effector immune cell. The data support the potential of Medicenna's superkine-focused platform to create novel therapies for challenging-to-treat 'cold' tumors.

• **Strengthened intellectual property portfolio.** Medicenna received a U.S. patent for the use of Interleukin-2 Superkine fusion proteins in oncology. This patent strengthens the Company's intellectual property around its BiSKIT (Bifunctional SuperKine for ImmunoTherapy) platform.

Corporate and Financial Highlights

- **Management changes.** Key new leadership team appointments include Humphrey Gardner, M.D., as Chief Medical Officer and Arash Yavari, M.D., DPhil, as Chair of the Development Advisory Committee.
- **Delisted from Nasdaq Capital Market.** Medicenna's common stock ceased trading on Nasdaq on November 2, 2023. The Company anticipates significant financial savings as a result of this decision. The Company has applied to have its common shares traded on the OTC Markets. Medicenna's common stock continues to trade on the Toronto Stock Exchange (TSX).

Expected Upcoming Milestones

- Report 4-year follow-up survival data from the Phase 2b bizaxofusp study in patients with rGBM at the SNO conference to be held from 15-19 November, 2023
- Commence the combination arm of the ABILITY study evaluating MDNA11 with pembrolizumab (KEYTRUDA®) e.
- Clinical update from the ABILITY study's MDNA11 Phase 2 monotherapy arm expected in the first half of 2024.
- Clinical update from the ABILITY study's MDNA11 plus pembrolizumab Phase 2 combination arm expected in the first half of 2024.

Financial Results

As of September 30, 2023, cash and cash equivalents were \$25.7 million, compared to \$29.6 million on June 30, 2023.

Net loss for the quarter ended September 30, 2023, was \$3.7 million or \$(0.05) per share compared to a net loss of \$0.9 million or \$(0.01) per share for the quarter ended September 30, 2022. The increase in net loss for the quarter ended September 30, 2023, compared with the quarter ended September 30, 2022, was primarily a result of increased research and development expenditures related to the clinical costs associated with the MDNA11 ABILITY-1 study, and increased licensing and patent legal fees.

Research and development expenses of \$3.1 million were incurred during the quarter ended September 30, 2023, compared with \$2.4 million incurred in the quarter ended September 30, 2022. The increase in R&D expenses for the quarter ended September 30, 2023 was primarily attributable to increased licensing and patent legal fees related to timing as well as intellectual property activities in the current year quarter, higher clinical costs related to the MDNA11 ABILITY study in the current year period, and increased salaries and benefits due to increase in headcount to support the MDNA11 ABILITY-1 study.

General and administrative expenses of \$2.3 million were incurred during the quarter ended September 30, 2023, compared with \$2.4 million during the quarter ended September 30, 2022. The decrease in G&A expenses was primarily attributable to an increase in public company expenses, and salaries and benefits due to increase in headcount, partially offset by the one-time transaction costs associated with warrant derivative in the six month period ended September, 30, 2022 only.

About Medicenna Therapeutics

Medicenna is a clinical-stage immunotherapy company focused on developing novel, highly selective versions of IL-2, IL-4 and IL-13 Superkines and first in class class-empowered superkines. Medicenna's long-acting IL-2 Superkine, MDNA11, is a nextgeneration IL-2 with superior affinity toward CD122 (IL-2 receptor beta) and no CD25 (IL-2 receptor alpha) binding, thereby preferentially stimulating cancer-killing effector T cells and NK cells, Medicenna's IL-4 Empowered Superkine, bizaxofusp (formerly MDNA55), has been studied in 5 clinical trials enrolling over 130 patients, including a Phase 2b trial for recurrent GBM, the most common and uniformly fatal form of brain cancer. Bizaxofusp has obtained FastTrack and Orphan Drug status from the FDA and FDA/EMA, respectively. Medicenna's early-stage BiSKITsTM (Bifunctional SuperKine ImmunoTherapies) is designed to enhance the ability of Superkines to treat immunologically "cold" tumors. For more information, please visit https://www.medicenna.com/.

Forward-Looking Statements

This news release contains forward-looking statements within the meaning of applicable securities laws that relate to the future operations of the Company, plans and projections and other statements that are not historical facts, including, without limitation, statements on the Company's cash runway, clinical development activities, potential, safety profiles and upcoming milestones and data reporting, including with respect to MDNA11, MDNA113, MDNA223, the Superkine platform, notably MDNA55, partnership opportunities, patent protection and cost savings related to NASDAQ delisting. Forward-looking statements are often identified by terms such as "will", "may", "should", "anticipate", "expect", "believe", "seek", "potentially" and similar expressions. and are subject to risks and uncertainties. There can be no assurance that such statements will prove to be accurate and actual results and future events could differ materially from those anticipated in such statements. Important factors that could cause actual results to differ materially from the Company's expectations include the risks detailed in the latest Annual

Information Form and Annual Report on Form 20-F of the Company and in other filings made by the Company with the applicable securities regulators from time to time in Canada and the United States.

The reader is cautioned that assumptions used in the preparation of any forward-looking information may prove to be incorrect. Events or circumstances may cause actual results to differ materially from those predicted, as a result of numerous known and unknown risks, uncertainties, and other factors, many of which are beyond the control of the Company. The reader is cautioned not to place undue reliance on any forward-looking information. Such information, although considered reasonable by management, may prove to be incorrect and actual results may differ materially from those anticipated. Forward-looking statements contained in this news release are expressly qualified by this cautionary statement. The forward-looking statements contained in this news release are made as of the date hereof and except as required by law, we do not intend and do not assume any obligation to update or revise publicly any of the included forward-looking statements.

Investor and Media Contacts

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