

NanoSphere Health Sciences Inc.

Management's Discussion & Analysis For the six months ended June 30, 2023

Management's Discussion and Analysis For the Period Ended June 30, 2023

The following Management Discussion and Analysis ("MD&A") of NanoSphere Health Sciences Inc. (the "Company" or "NanoSphere Health Sciences" or "NanoSphere") should be read in conjunction with the condensed consolidated interim financial statements of the Company for the period ended June 30, 2023, and the audited consolidated financial statements of the Company for the year ended December 31, 2022, which have been prepared in accordance with the International Financial Reporting Standards ("IFRS"). This MD&A includes certain statements that may be deemed "forward looking statements". All statements in this MD&A, other than statements of historical fact, that address future exploration activities and events or developments that the Company expects, are forward looking statements. Although the Company believes the expectations expressed in such forward-looking statements are based on reasonable assumptions, such statements are not guarantees of future performance and actual results or developments may differ materially from those in the forward-looking statements. Additional information can be found on SEDAR+ at www.sedarplus.ca. This MD&A is dated as of August 28, 2023.

DESCRIPTION OF THE COMPANY

NanoSphere Health Sciences is a biotechnology firm that created a patented NanoSphere Deliver System, a revolutionary platform using nanotechnology in the biodelivery of supplements, nutraceuticals and over-the-counter medications for the cannabis, pharmaceutical and animal health industries, and beyond. NanoSphere Delivery System represents one of the most important developments for advancing the non-invasive and user-friendly delivery of biological agents in over 25 years. The Company trades on the Canadian Securities Exchange under the symbol 'NSHS'.

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Selected Annual Financial Information

The following table provides a brief summary of the Company's financial operations. For more detailed information, refer to the consolidated financial statements.

	I	December 31, 2022]	December 31, 2021]	December 31, 2020
Financial results						
Total revenue	\$	Nil	\$	Nil	\$	Nil
Loss for the year	\$	281,752	\$	356,270	\$	591,220
Basic and diluted loss per share	\$	0.03	\$	0.05	\$	0.11
Balance sheet data						
Current assets	\$	60,049	\$	132,514	\$	15,739
Non-current assets	\$	=	\$	=	\$	39,450
Total assets	\$	60,049	\$	132,514	\$	55,189
Current liabilities	\$	1,371,924	\$	1,207,992	\$	1,508,980
Shareholders' equity (deficiency)	\$	(1,311,875)	\$	(1,075,478)	\$	(1,453,791)

The net loss for the year ended December 31, 2022 was primarily attributable to consulting fees, professional fees and research and development costs.

Summary of Quarterly Results

	June	March	December	September
	30, 2023	31, 2023	31, 2022	30, 2022
Total assets	\$ 33,328	\$ 39,179	\$ 60,049	\$ 64,951
Working capital deficiency	(1,457,663)	(1,364,611)	(1,311,875)	(1,214,116)
Net loss	(78,150)	(53,559)	(93,497)	(35,209)
Net loss per share	(0.01)	(0.01)	(0.01)	(0.00)
	June	March	December	September
	30, 2022	31, 2022	30, 2021	30, 2021
Total assets	\$ 93,531	\$ 130,265	\$ 132,514	\$ 150,952
Working capital deficiency	(1,214,009)	(1,148,720)	(1,075,478)	(1,008,016)
Net income (loss)	(83,126)	(69,920)	187,500	(349,839)
Net loss per share	(0.01)	(0.01)	(0.01)	(0.06)

Results of Operations for the three-month period ended June 30, 2023 compared to 2022

The Company incurred a net loss for the three-month period ended June 30, 2023 of \$78,150, compared to a net loss of \$83,126 for the comparative period. Individual items contributing to the net loss:

- Professional fees decreased to \$33,421 (2022 \$40,711) and reflect a decrease in corporate activity.
- Research and development costs decreased to \$2,490 (2022 \$4,517) due to a decrease in application fees on Patents.

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- Salaries and consulting fees of \$24,835 (2022 \$24,623) are consistent with the prior period.
- Share-based payments decreased to \$1,384 (2022 \$3,421). The expense relates primarily to stock options vested during the period and is not expected to be comparable over the two periods as the expense is dependent on the timing of grants and vesting schedules.

Results of Operations for the six-month period ended June 30, 2023 compared to 2022

The Company incurred a net loss for the six-month period ended June 30, 2023 of \$131,709, compared to a net loss of \$153,046 for the comparative period. Individual items contributing to the net loss:

- Professional fees decreased to \$54,494 (2022 \$71,372) and reflect a decrease in corporate activity.
- Research and development costs decreased to \$6,150 (2022 \$10,568) due to a decrease in application fees on Patents.
- Salaries and consulting fees of \$49,536 (2022 \$49,327) are consistent with the prior period.
- Share-based payments decreased to \$2,744 (2022 \$6,854). The expense relates primarily to stock options vested during the period and is not expected to be comparable over the two periods as the expense is dependent on the timing of grants and vesting schedules.

Cash flows for the period ended June 30, 2023 compared to 2022

The Company does not generate cash from operating activities. Net cash used by the Company for operating activities for the period ended June 30, 2023 was \$17,047 (2022 – \$44,541), primarily due to a decrease in change in accounts payable and accrued liabilities compared to the prior period.

LIQUIDITY AND CAPITAL RESOURCES

The Company has no significant revenues to date. In order to manage risk, the Company closely monitors its cash requirements and expenditures. At June 30, 2023 and December 31, 2022, the Company's working capital and deficit were as follows:

	June 30, 2023	December 31, 2022
Working capital deficit Deficit	\$ (1,457,663) (21,450,417)	\$ (1,311,875) (21,318,708)

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As at June 30, 2023, the Company has a working capital deficit of \$1,457,663. Management is actively reviewing financing

opportunities in order to meet working capital requirements for the current fiscal period.

BASIS OF PRESENTATION - INTERNATIONAL FINANCIAL REPORTING STANDARDS (IFRS)

The condensed consolidated interim financial statements have been prepared in conformity with International Accounting

Standard ("IAS") 34, Interim Financial Reporting, using the same accounting policies as detailed in the Company's annual

audited financial statements for the year ended December 31, 2022, and do not include all the information required for full

annual financial statements in accordance with International Financial Reporting Standards ("IFRS"), as issued by the

International Accounting Standards Board ("IASB") and interpretations of the International Financial Reporting

Interpretations Committee ("IFRIC"). It is suggested that the condensed consolidated interim financial statements be read in

conjunction with the annual audited financial statements.

RELATED PARTY TRANSACTIONS

The consolidated financial statements include the financial statements of NanoSphere Health Sciences Inc. and its 100%

owned subsidiaries.

Key management compensation

Key management personnel comprise the Chief Executive officer and interim Chief Financial Officer, former Chief Executive

officer, second former Chief Executive officer, former Chief Marketing Officer and former President.

During the period ended June 30, 2023, the Company paid or accrued the following to key management personnel:

a) Management, salaries, and consulting fees of \$49,500 (2022 - \$49,500) for services provided by key

management personnel;

b) Professional fees of \$22,659 (2022-\$23,280) to a director of the Company; and

c) Share-based compensation of \$2,676 (2022- \$562) to the officers and directors of the Company was

recorded.

Included in accounts payable and accrued liabilities is \$464,438 (December 31, 2022 - \$377,225) due to directors, officers,

and companies controlled by directors and officers of the Company that is non-interest bearing and due on demand.

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CRITICAL ACCOUNTING ESTIMATES

Critical accounting estimates

Management is required to make certain estimates, judgments and assumptions that affect the reported amounts of assets and

liabilities at the date of the financial statements and the reported expenses during the period. Actual results could differ from

these estimates.

Significant assumptions about the future and other sources of estimation and judgement uncertainty that management has

made at the end of the reporting period, that could result in a material adjustment to the carrying amounts of assets and

liabilities in the event that actual results differ from assumptions made, relate to:

I. Going concern

The Company's condensed consolidated interim financial statements have been prepared with the assumption that

the Company will be able to realize its assets and discharge its liabilities in the normal course of business rather than

through a process of forced liquidation. Ongoing operations of the Company are dependent upon its ability to receive

continued financial support, complete public equity financings, or generate profitable operations in the future. The

Company incurred a loss of \$131,709 during the period ended June 30, 2023, and as of that date, the Company's

had an accumulated deficit of \$21,450,417. Management is actively targeting sources of additional financing which

would assure the continuation of the Company's operations. The Company anticipates the need to raise additional

funds within the next 12 months to pay operational costs and fund any investing activities. To the extent financing

is not available, lease payments, rental payments, and other payments may not be satisfied and could result in a loss

of earning opportunities for the Company. These material uncertainties may cast significant doubt upon the

Company's ability to continue as a going concern.

II. Loans and receivables

Loans and receivables are financial assets with fixed or determinable payments that are not quoted in an active

market. After initial recognition, loans and receivables are measured at amortized cost using the effective interest

rate method, less any impairment losses. The carrying amount is reduced through the use of an allowance account.

When an amount receivable is considered uncollectible, it is written off against the allowance account. Subsequent

recoveries of amounts previously written off are credited against the allowance account. Changes in the carrying

amount of the allowance are recognized in profit or loss.

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RISKS AND UNCERTAINTIES

This section discusses factors relating to the business of Company that should be considered by both existing and potential

investors. The information in this section is intended to serve as an overview and should not be considered comprehensive

and the Company may face risks and uncertainties not discussed in this section, or not currently known to us, or that we deem

to be immaterial. All risks to the Company's business have the potential to influence its operations in a materially adverse

manner

The following sets out the principal risks (non-inclusive) faced by the Company.

Financing risks. The Company will be dependent upon the capital markets to raise additional financing in the upcoming

months, while it maintains essential operations and furthers the research, science and product development that will underpin

the commercialization of our technology and future products. As such, the Company is subject to liquidity risks in meeting

its development and future operating cost requirements in instances where cash positions are unable to be maintained or

appropriate financing is unavailable. These factors impact the Company's ability to raise equity or obtain loans and other

credit facilities in the future and on terms favorable to the Company and its management. If uncertain market conditions

persist, the Company's ability to raise capital could be jeopardized, which could have an adverse impact on the Company's

operations and the trading price of the Company's shares on the Exchange.

Share Price Volatility and Price Fluctuations. The market price for the Common Shares of the Company could be subject

to wide fluctuations. Factors such as commodity prices, government regulation, interest rates, share price movements of peer

companies and competitors, as well as overall market movements, may have a significant impact on the market price of the

Company. The stock market has from time-to-time experienced extreme price and volume fluctuations, which have often

been unrelated to the operating performance of particular companies.

Key personnel risks. The Company's business development efforts are dependent to a large degree on the skills and

experience of certain of its key personnel. The Company does not maintain "key man" insurance policies on these individuals.

Should the availability of these persons' skills and experience be in any way reduced or curtailed, this could have a material

adverse outcome on the Company and its securities.

Collection of revenue risk. The Company recorded licensing revenue but to date has not received payment. The Company

has assessed the collectability of revenue and determined that the Colorado licensee revenues are at high risk for not being

paid. Should revenue not be collected, it could be reserved in subsequent filings.

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History of Net Losses; Accumulated Deficit; Lack of Revenue from Operations. The Company has incurred net losses to date and had a deficit as of June 30, 2023 of \$21,450,417. The Company does not have a strong history of sales operations and there is no assurance that it will produce revenue, operate profitably or provide a return on investment in the future.

Uninsurable risks. The Company may be subject to liability for risks against which it cannot insure or against which the Company may elect not to insure due to the high cost of insurance premiums or other factors. The payment of any such liabilities would reduce the funds available for the Company's normal business activities. Payment of liabilities for which the Company does not carry insurance may have a material adverse effect on the Company's financial position and operations.

Change in Law, Regulations and Guidelines. The Company's business is subject to a variety of laws, regulations and guidelines relating to marketing, acquisition, manufacture, management, transportation, storage, sale and disposal of medical marijuana but also laws and regulations relating to health and safety, the conduct of operations and the protection of the environment. Changes to such laws, regulations and guidelines may cause adverse effects to the Company's operations. On February 24, 2016, the Federal Court released its decision in the case of Allard et al v. Canada, declaring that the Marijuana for Medical Purposes Regulations ("MMPR"), as it was drafted, was unconstitutional in violation of the plaintiffs' rights under section 7 of the Charter of Rights and Freedoms. On August 24, 2016, the Access to Cannabis for Medical Purposes Regulations ("ACMPR") came into force, replacing the MMPR as the regulations governing Canada's medical cannabis regime which permits patients to produce a limited amount of cannabis for their own medical purposes or to designate a person to produce a limited amount of cannabis. The ACMPR could potentially decrease the size of the market for the Company's business, and potentially materially and adversely affect the Company's business, its results of operations and financial condition.

Unfavourable Publicity or Consumer Perception. The success of the medical marijuana industry may be significantly influenced by the public's perception of marijuana's medicinal applications. Medical marijuana is a controversial topic, and there is no guarantee that future scientific research, publicity, regulations, medical opinion and public opinion relating to medical marijuana will be favourable. The medical marijuana industry is an early-stage business that is constantly evolving with no guarantee of viability. The market for medical marijuana is uncertain, and any adverse or negative publicity, scientific research, limiting regulations, medical opinion and public opinion relating to the consumption of medical marijuana may have a material adverse effect on our operational results, consumer base and financial results.

Political and Economic Instability. The Company may be affected by possible political or economic instability. The risks include, but are not limited to, terrorism, military repression, extreme fluctuations in currency exchange rates and high rates of inflation. Changes in medicine and agriculture development or investment policies or shifts in political attitude in certain countries may adversely affect the Company's business. Operations may be affected in varying degrees by government regulations with respect to restrictions on production, distribution, price controls, export controls, income taxes, expropriation

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of property, maintenance of assets, environmental legislation, land use, land claims of local people and water use. The effect

of these factors cannot be accurately predicted.

FINANCIAL INSTRUMENTS AND RISK MANAGEMENT

Financial instruments measured at fair value are classified into one of three levels in the fair value hierarchy according to the

relative reliability of the inputs used to estimate the fair values. The three levels of the fair value hierarchy are:

Level 1: Unadjusted quoted prices in active markets for identical assets or liabilities;

Level 2: Inputs other than quoted prices that are observable for the asset or liability either directly or indirectly; and

Level 3: Inputs that are not based on observable market data.

The fair value of the Company's receivables, accounts payable and accrued liabilities, approximate carrying value, which is

the amount recorded on the consolidated statement of financial position. Cash and receivables, under the fair value hierarchy

are based on level one quoted prices in active markets for identical assets or liabilities.

The Company is exposed in varying degrees to a variety of financial instrument-related risks. The Board of Directors approves

and monitors the risk management processes, inclusive of documented investment policies, counterparty limits, and

controlling and reporting structures. The type of risk exposure and the way in which such exposure is managed is provided

as follows:

Credit risk

Credit risk is the risk of potential loss to the Company if the counterparty to a financial instrument fails to meet its contractual

obligations. The Company's maximum exposure to credit risk is attributable to its liquid financial assets including cash and

receivables. The Company limits exposure to credit risk on liquid financial assets through maintaining its cash with high-

credit quality financial institutions. The Company's receivables are comprised entirely of goods and services tax receivable

from the government of Canada.

Liquidity risk

Liquidity risk is the risk that the Company will not be able to meet its financial obligations as they fall due. The Company

has a planning and budgeting process in place to help determine the funds required to support the Company's normal operating

requirements on an ongoing basis.

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Historically, the Company's sole source of funding has been the issuance of equity securities for cash, primarily through

private placements. The Company's access to financing is always uncertain. There can be no assurance of continued access

to significant equity funding.

All of the contractual maturities of the Company's non-derivative financial liabilities are within one year of the financial

statement end date.

Market risk

Market risk is the risk of loss that may arise from changes in market factors such as interest rates, foreign exchange rates, and

commodity and equity prices.

a) Interest rate risk

Interest rate risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of

changes in market interest rates.

The risk that the Company will realize a loss as a result of a decline in the fair value of the short-term investments

included in cash is minimal.

b) Foreign currency risk

The Company's foreign exchange risk arises from transactions denominated in other currencies. Through this, the

Company is exposed to foreign currency risk on fluctuations related to cash, receivables, accounts payable and accrued

liabilities that are denominated in United States Dollar and Canadian Dollars. The Company does not use derivative

instruments to reduce its exposure to foreign currency risk nor has it entered into foreign exchange contracts to hedge

against gains or losses from foreign exchange fluctuations. A 10% change in the foreign exchange rate would result

in a \$822 (Canadian dollar equivalent) change in profit or loss.

c) Price risk

The Company is exposed to price risk with respect to commodity and equity prices. Equity price risk is defined as the

potential adverse impact on the Company's earnings due to movements in individual equity prices or general

movements in the level of the stock market. Commodity price risk is defined as the potential adverse impact on

earnings and economic value due to commodity price movements and volatilities. The Company closely monitors

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commodity prices of gold, individual equity movements, and the stock market to determine the appropriate course of action to be taken by the Company.

Sensitivity Analysis

The carrying amount of cash, receivables, and accounts payable and accrued liabilities approximates their fair value due to their short-term nature. The Company does not have significant exposure to changing interest rates.

Based on management's knowledge and experience of the financial markets, the Company believes the following movement is "reasonably possible".

Capital management

The Company's primary objectives in capital management are to safeguard the Company's ability to continue as a going concern in order to provide returns for shareholders and to maintain sufficient funds to finance current production of the Company's patented NanoSphere Delivery System and development of future products utility system. Capital is comprised of the Company's shareholders' equity. The Company manages its capital structure to maximize its financial flexibility making adjustments to it in response to changes in economic conditions and the risk characteristics of the underlying assets and business opportunities. The Company is not subject to externally imposed capital requirements.

The Board of Directors does not establish quantitative return on capital criteria for management, but rather relies on management to sustain future development and commercialization of the business. The Company will continue to assess sources of financing available and to assess the potential for collaboration with interested partners with a view to managing its current financial resources in the interest of sustaining the long-term viability of the Company's operations. The Company's overall strategy with respect to management of capital at June 30, 2023 remains fundamentally unchanged.

OUTSTANDING SHARE DATA

Common shares, options, warrants and convertible securities outstanding as at the date of this report:

Security	Outstanding
Common Shares	10,275,205
Options	71,500
Warrants	2,428,727

PROPOSED TRANSACTIONS

The Company has no proposed transactions other than already disclosed.

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OFF BALANCE SHEET ARRANGEMENTS

The Company has no off-balance sheet arrangements.

OTHER INFORMATION

Additional information on the Company is available on SEDAR+ at www.sedarplus.ca.