

**COMPANY** 

**Rating: BUY** 

**NDRA** 

\$0.18

(from \$4.50)

(intraday)

Target: \$4.25

Ticker:

Price:

**UPDATE** 

## **ENDRA Life Sciences Inc.**

Q3 about inline and planned FDA submission soon. We believe FDA approval and EU/US product launch over the next year to drive stock. Lowering P/T to \$4.25.

Q3 about inline: ENDRA recently (on November 14) reported its Q3 2022 (ending September) results. Net loss was \$3.4 million or EPS of (0.05) compared with our and consensus estimates of (0.05) – (0.06). There was no Q3 guidance. ENDRA is a late stage medical device development/early stage commercialization company so it generates no revenues.

**Operating expense:** Operating expenses were \$3.4 million, vs \$3.6 million in O2.

No 2022 guidance: Management did not provide specific 2022 guidance.

**Adjusting 2022 estimates**: We are adjusting our 2022 revenues estimates to \$0 from \$0.3 million, but maintaining it for EPS of \$(0.23).

**Focused on TAEUS development:** ENDRA has one main medical device candidate, the Thermo Acoustic Enhanced UltraSound (TAEUS) platform to enable clinicians to visualize human tissue composition, function and temperature in ways previously possible only with CT and MRI, but at a fraction of the cost and at the point-of-care.

**EU launched:** In March 2020, ENDRA received CE Mark approval, and is now starting initial commercialization activity in Europe.

**FDA submission soon:** In June 2020, ENDRA filed its 501(k) application with the FDA. After extensive dialogue with the FDA, ENDRA is now (as of February 2022) pursuing the De Novo pathway for its TAEUS System (and withdrawing its 501(k) application), which is intended to characterize fatty liver tissue as a non-invasive means to assess and monitor Non-Alcoholic Fatty Liver Disease (NAFLD). ENDRA plans to file its FDA submission soon (we estimate by Q4 2022 or Q1 2023). We note that key commercialization activities have already started, including a major distribution deal in Vietnam.

**95** scans done: ENDRA has 4 U.S. reference evaluation sites, 5 in the EU, and a site in China used to build clinical evidence and establish the clinical utility of the TAEUS device for assessing NAFLD-NASH. ENDRA expects to have 200 total patients scanned soon (we estimate a slight delay from its prior goal by the end of 2022). YTD it has done 95 scans, which is up from 50 in August.

Large market opportunity: The company is launching its first TAEUS application to measure fat in the liver, which is used for early detection and monitoring of Non-Alcoholic Fatty Liver Disease (NAFLD). In 2011, over 1.4 billion people were affected by NAFLD/NASH around the world. Despite the increased incidence of NAFLD, there are no low-cost, accurate, and safe methods for measuring fat in the liver. TAEUS technology should enable to diagnose NAFLD earlier and monitor patients with related liver diseases more accurately and cost-effectively than is possible with existing technology.

**Balance sheet:** In Q3, ENDRA has \$8 million in cash and no debt. We believe it has enough cash into late 2023.

**Positive high risks versus rewards:** Though we acknowledge that ENDRA's devices are at/near approvals and launch, there is still a long road to successful commercialization. However, we believe the ~billion dollars market potentials presents a high reward for the high risks.

**Current valuation attractive:** Maintaining our BUY rating, but lowering our 12-month price target to \$4.25 from \$4.50. This is based on a NPV analysis, representing significant upside from the current share price. We believe this valuation appropriately balances out the company's high risks with the company's high growth prospects and large upside opportunities.

#### **Company Description**

Based in Ann Arbor, MI, ENDRA Life Sciences is a medical device company developing enhanced ultrasound technologies (TAEUS) for medical imaging.

United States Healthcare

November 21, 2022

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NasdagCM

# Stock Data Exchange:

270.101.1001	
52-week Range:	\$0.17 - 1.0
Shares Outstanding (million):	63
Market cap (\$million):	\$11
EV (\$million):	\$3
Debt (\$million):	\$0
Cash (\$million):	\$8
Avg. Daily Trading Vol. (\$million):	\$0.3
Float (million shares):	62
Short Interest (million shares):	0.5
Dividend, annual (yield):	\$0 (NA%)

#### Revenues (US\$ million)

	2022E	2022E	2023E	2023E
	(Cur.)	(Old)	(Cur.)	(Old)
Q1 Mar	0.0A		0.2E	1.0E
Q2 Jun	0.0A		0.6E	1.0E
Q3 Sep	0.0A	0.0E	0.7E	1.0E
Q4 Dec	0.0E	0.3E	1.0E	1.0E
Total	0.0E	0.3E	2.5E	4.0E
EV/Revs	N/A		1x	

#### Earnings per Share (pro forma)

	2022E (Cur.)	2022E (Old)	2023E (Cur.)	2023E (Old)
Q1 Mar	(0.07)A		(0.05)E	(0.04)E
Q2 Jun	(0.06)A		(0.05)E	(0.04)E
Q3 Sep	(0.05)A	(0.05)E	(0.04)E	
Q4 Dec	(0.05)E		(0.04)E	
Total	(0.23)E		(0.18)E	(0.17)E
P/E	N/A		N/A	

#### Important Disclosures

Ascendiant Capital Markets LLC seeks to do business with companies covered by its research team. Consequently, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making an investment decision.

For analyst certification and other important disclosures, refer to the Disclosure Section, located at the end of this report, beginning on page 11.

NDRA: ENDRA Life Sciences Inc.



#### Exhibit 1: Q3 2022 and Recent Highlights (as of November 14, 2022)

- Nearly doubled TAEUS system scans at global clinical evaluation sites. Year-to-date, 95 TAEUS scans nearly double the count
  announced in August have been performed on study participants toward ENDRA's goal of building a strong body of clinical evidence. Data
  generated by these clinical evaluation sites will support the commercialization of the TAEUS system, and a subset of the data will also be
  used to support ENDRA's submission of its De Novo request to the U.S. Food and Drug Administration (FDA).
- Finalizing collection of data for inclusion in the De Novo request to the FDA. ENDRA is pursuing the De Novo regulatory pathway for its TAEUS liver device, which is intended to characterize fatty liver tissue as a non-invasive means to assess and monitor Non-Alcoholic Fatty Liver Disease (NAFLD). The De Novo documentation is substantially complete with remaining efforts focused on obtaining the final TAEUS and MRI confirmatory data, after which the submission will be made. The De Novo pathway should assist ENDRA in achieving the strongest market position in the United States with TAEUS-optimized claims.
- Showcased the TAEUS system in ENDRA's booth at four major hepatology clinical conferences. The ENDRA team met with prospective
  customers, industry leaders and key partners at four major hepatology clinical conferences, including most recently The Liver Meeting by
  the American Association for the Study of Liver Diseases in Washington, D.C. The commercial team has continued to generate market
  awareness for the TAEUS system by participating in 11 industry conferences year-to-date and conducting other cost-effective marketing
  activities.
- Strong balance sheet to fund the company through expected key milestones. With a cash position of approximately \$8.0 million as of September 30, 2022, management believes ENDRA is sufficiently capitalized to fund operations through several important milestones, including ramping-up commercial activities in Europe and advancing the TAEUS system through the regulatory process in the U.S.
- Expanded global intellectual property portfolio to 56 issued patents. During the third quarter and recent weeks, the company was issued eight patents that further protect its thermoacoustic imaging technology. ENDRA announced several new U.S patents focused on cloudenabled connectivity of medical devices and is pursuing out-licensing opportunities with other equipment manufacturers.

Source: Company reports.



## **Exhibit 2: ENDRA Investment Highlights**

## **FNDRA Life Sciences**

ENHANCE ULTRASOUND TO SEE HUMAN TISSUE IN WAYS SIMILAR TO CT-MRI... BUT AT 50X LOWER COST<sup>2</sup>

## **ENDRA Life Sciences: Investment Highlights**

## PROPRIETARY SCALABLE PLATFORM

- Thermo Acoustic Enhanced Ultrasound (TAEUS®) uses radio frequency pulses to create sonic waves
- TAEUS differentiates tissues similar to MRI but at 50x lower cost,1 at the point of patient care
- · Potential to address multiple unmet clinical needs, and generate diverse revenue streams
- TAEUS CE mark received in Europe, and FDA De Novo request planned for 2022 in the U.S.
- 56 issued patents, organically developed (no in-licensing). 35 filed patents.

## MULTI-BILLION DOLLAR MARKET

- · First TAEUS indication focused on liver disease (NAFLD-NASH) with no practical diagnostic tools
- 1.8 billion people<sup>2</sup> affected with excess liver fat. \$12.5 billion global market opportunity<sup>3</sup>

## CAPITAL-EFFICIENT OPERATING MODEL

· Small ENDRA team + world-class technical, clinical and commercial partners

Source: Company reports.



## **Exhibit 3: TAEUS Upcoming Milestones**

## Anticipated Milestones: ENDRA Liver Application

### 2022

- Sign high-value China partnership with Shanghai General Hospital
- Achieve clarity on U.S regulatory strategy
  - o Submit De Novo request in 2022
- Strengthen intellectual property portfolio
- Collect TAEUS clinical evidence from global research partners
- Ramp commercialization efforts & drive sales in Europe
- Forge alliances with pharmas & med-techs for other TAEUS applications

Source: Company reports.

#### **Exhibit 4: ENDRA Partners**

### **ENDRA Partners**

SUPPORTING TECHNICAL, CLINICAL & COMMERCIAL DEVELOPMENT OF TAEUS

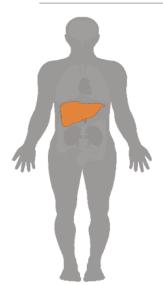
		Val	ue to ENDR	A
	Partner's Role	Build <b>C</b> linical Evidence	Refine Technology	Commercial Support
JG U E CHU INSERTIN UPMC	8 TAEUS clinical evaluation sites (4 EU, 3 U.S., 1 China)	•	•	•
GE Healthcare	Ultrasound leader, supporting ENDRA intros to GE customers			•
HEPION VGI HEALTH TECHNOLOGY	Pharma companies piloting TAEUS for drug trial screening	•		
Western & Ladak Laboratory	Academic lab developing TAEUS artificial intelligence capabilities		•	
ource: Company reports.				



#### **Exhibit 5: ENDRA's TAEUS Market Opportunity**

## ENDRA Opportunity #1: Non-Alcoholic Fatty Liver Disease (NAFLD)

QUANTIFY LIVER FAT INEXPENSIVELY & NON-INVASIVELY AT EARLIEST STAGE OF LIVER DISEASE



#### 1.4 BILLION PEOPLE AFFECTED GLOBALLY<sup>1</sup>

- · Drivers: obesity, diabetes, Hep-C, drugs
- · Often asymptomatic, needs to be monitored
- $^{\sim}30\%^2$  of NAFLD cases progress to NASH, then Fibrosis, Cirrhosis, Cancer
- Total annual direct medical costs for NAFLD: \$103B in the U.S3
- Median Medicare inpatient charge per NAFLD patient: \$36K4
- By 2025, NAFLD likely the greatest root cause of liver transplants<sup>5</sup>

#### CURRENT DIAGNOSTIC & MONITORING TOOLS ARE IMPRACTICAL

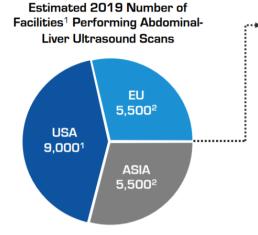
Expensive MRI, invasive surgical biopsy

"The ability to accurately quantify fat in the liver, at the point-of-care with ENDRA's TAEUS ultrasound could be revolutionary."

Xiang Jing M.D Deputy Chairman, Ultrasound Committee China Medical Association

## Total Addressable Market for NAFLD-NASH Fat Measurement Tool

\$1 BILLION OPPORTUNITY ... WITH UPSIDE



Global facilities (primarily radiology) currently 20,000 ... doing abdominal-liver ultrasound scans, who could potentially buy 1 unit of ENDRA's liver technology

Target average selling price per unit of ENDRA's x \$50K liver technology

Sub-Total Addressable Market

= \$1 billion

#### **Potential Upside**

- · Non-radiology facilities focused on liver & metabolism: gastro-hepatology, endocrinology, primary care
- · Other global markets: Latin America, Middle East
- >1 ENDRA liver unit sale per facility (E.g. hospital)
- ENDRA licensing, disposables, service

ASDAQ: NDRA

Source: Company reports.

ENDRA



#### **Exhibit 6: TAEUS**

## TAEUS® Liver Application

RADIO FREQUENCY PULSES CREATE SONIC WAVES THAT QUANTITATE LIVER FAT FRACTION



Illustration of TAEUS probe

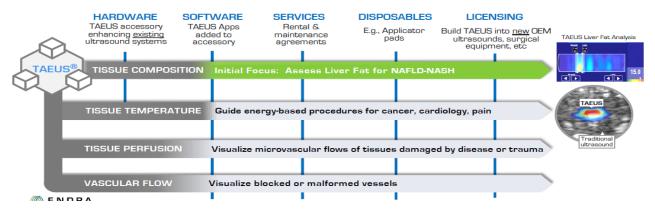
Screen shot of TAEUS measurement

#### **TAEUS PROCEDURE**

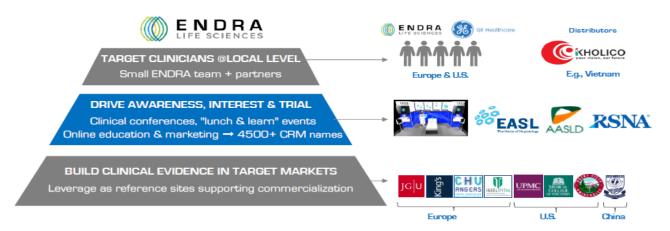
- Locate liver with any traditional B-mode ultrasound
- · Apply & activate TAEUS probe; each scan takes 1.5 seconds
- ✓ TAEUS human feasibility study (n=19), validated against MRI-PDFF.
  Sensitivity 0.88 Specificity 0.82 AUROC 0.91 @ MRI 6% steatosis
- Several independent clinical studies underway with goal of scanning 200 subjects by end of 2022
- ✓ CE mark received in Europe
- FDA De Novo request planned in 2022 (Not yet approved for sale in U.S)

#### TAEUS® Platform Evolution<sup>1</sup> & Business Model

START WITH LIVER-FOCUSED ACCESSORY & SOFTWARE ENHANCING EXISTING ULTRASOUND SYSTEMS, THEN SCALE WITH ADDITIONAL CLINICAL APPLICATIONS & REVENUE STREAMS



## Commercializing TAEUS Liver: 3 Core Elements



Source: Company reports.







Source: https://bigcharts.marketwatch.com/

Exhibit 8: Consensus Expectations (as of November 14, 2022)

	Revenue (mil)				EPS	
	<u>2022E</u>	<u>2022E</u>			<u>2022E</u>	2023E
Q1 Mar	\$0.0A		(	Q1 Mar	\$(0.07)A	
Q2 Jun	\$0.0A		(	Q2 Jun	\$(0.06)A	
Q3 Sep	\$0.0E		(	Q3 Sep	\$(0.06)E	
Q4 Dec	\$0.9E		(	Q4 Dec	\$(0.04)E	
Total	\$0.9E	\$6.6E		Γotal	\$(0.23)E	\$(0.15)E

<sup>\*</sup>Quarterly estimates may not add to annual estimates due to variations in contributing estimates and rounding.

Source: Company report, Refinitiv, and Ascendiant Capital Markets estimates



## **FINANCIAL MODEL**

ENDRA Life Sciences Inc.

ENDRA Life Sciences		I 65	0 62	D	0000	M C1	I C1	0 61	D 6 .	0004	B4 65	I 60	0 00	D	0005	M 02	I 02	0 00	D	
Income Statement (\$ mils)	Mar-20		Sep-20		2020			Sep-21		2021			Sep-22		2022	Mar-23	Jun-23	Sep-23	Dec-23	2023
Fiscal Year End: December 31	Q1A	Q2A	Q3A	Q4A	FY-A	Q1A	Q2A	Q3A	Q4A	FY-A	Q1A	Q2A	Q3A	Q4E	FY-E	Q1E	Q2E	Q3E	Q4E	FY-E
Total Revenue	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.7	1.0	2.
Cost of Revenues	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.5	1.
Gross Profit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.4	0.5	1.
Research and development	1.5	1.5	1.8	1.1	5.9	1.1	1.7	1.2	1.4	5.5	1.2	1.8	1.8	1.5	6.4	1.3	1.3	1.3	1.3	5.
Sales and marketing	0.1	0.1	0.1	0.2	0.6	0.2	0.3	0.3	0.4	1.1	0.3	0.3	0.4	0.5	1.6	0.5	0.5	0.5	0.5	2
General and administrative	1.5	1.3	1.3	0.9	5.0	1.3	1.2	1.2	1.3	4.9	1.3	1.4	1.2	1.4	5.3	1.4	1.4	1.4	1.4	5
Restructuring and other					0.0					0.0					0.0					0
Total operating expenses	3.1	2.9	3.3	2.3	11.5	2.6	3.2	2.7	3.1	11.5	2.9	3.6	3.4	3.4	13.2	3.2	3.2	3.2	3.2	12
Operating income (loss)	(3.1)	(2.9)	(3.3)	(2.3)	(11.5)	(2.6)	(3.2)	(2.7)	(3.1)	(11.5)	(2.9)	(3.6)	(3.4)	(3.4)	(13.2)	(3.1)	(2.9)	(2.9)	(2.7)	(11
Interest income (expense)	(0.2)	(0.0)		0.0	(0.2)					0.0				(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0
Other income (expense)	0.0	0.0	(0.4)	0.4	0.0	0.2	0.0	(0.0)	(0.0)	0.1	(0.0)	(0.0)	(0.0)	(0.1)	(0.1)				(0.1)	(0
Income before income taxes	(3.3)	(2.9)	(3.7)	(1.9)	(11.7)	(2.4)	(3.2)	(2.7)	(3.1)	(11.4)	(2.9)	(3.6)	(3.4)	(3.5)	(13.3)	(3.1)	(2.9)	(2.9)	(2.8)	(11
Income taxes					0.0					0.0				0.0	0.0	0.0	0.0	0.0	0.0	0
Net income (loss)	(3.3)	(2.9)	(3.7)	(1.9)	(11.7)	(2.4)	(3.2)	(2.7)	(3.1)	(11.4)	(2.9)	(3.6)	(3.4)	(3.5)	(13.3)	(3.1)	(2.9)	(2.9)	(2.8)	(11.
Nonrecurring/noncash adjustme	ents				0.0					0.0					0.0					0.
Net income (pro forma)	(3.3)	(2.9)	(3.7)	(1.9)	(11.7)	(2.4)	(3.2)	(2.7)	(3.1)	(11.4)	(2.9)	(3.6)	(3.4)	(3.5)	(13.3)	(3.1)	(2.9)	(2.9)	(2.8)	(11.
EBITDA																				
Shares, Basic	11.5	14.7	23.9	26.5	19.2	37.8	41.7	41.9	42.3	40.9	43.1	61.6	63.2	63.3	57.8	63.4	63.5	63.6	63.7	63
Shares, Diluted	11.5	14.7	23.9	26.5	19.2	37.8	41.7	41.9	42.3	40.9	43.1	61.6	63.2	63.3	57.8	63.4	63.5	63.6	63.7	63.
EPS Basic (Pro forma)	(\$0.29)	(\$0.20)	(\$0.15)	(\$0.07)	(\$0.61)	(\$0.06)	(\$0.08)	(\$0.06)	(\$0.07)	(\$0.28)	(\$0.07)	(\$0.06)	(\$0.05)	(\$0.05)	(\$0.23)	(\$0.05)	(\$0.05)	(\$0.04)	(\$0.04)	(\$0.1
EPS Diluted (Pro forma)	(\$0.29)	(\$0.20)	(\$0.15)	(\$0.07)	(\$0.61)	(\$0.06)	(\$0.08)	(\$0.06)	(\$0.07)	(\$0.28)	(\$0.07)	(\$0.06)	(\$0.05)	(\$0.05)	(\$0.23)	(\$0.05)	(\$0.05)	(\$0.04)	(\$0.04)	(\$0.1
Margins																				
Gross margin															#DIV/0!	50%	50%	50%	50%	5
Research and development															#DIV/0!	650%	217%	186%	130%	20
Sales and marketing															#DIV/0!	250%	83%	71%	50%	8
General and administrative															#DIV/0!	700%	233%	200%	140%	22
Operating margin	NM		NM	NM	-1550%	-483%	-407%	-270%	-46											
Tax rate, GAAP	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%		0%	0%	0%	0%	0%	0%	
Net margin	NM	-1550%	-483%	-407%	-275%	-46														
Y/Y % change																				
Total Revenue														#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DI\
Gross margin														#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DI\
Research and development	-14%	14%	20%	-44%	-10%	-25%	17%	-34%	24%	-7%	6%	6%		5%	17%	7%	-30%	-29%	-13%	-1
Sales and marketing	102%	53%	39%	15%	41%	40%	91%	97%	99%	85%		33%		31%	49%	47%	46%	19%	0%	2
General and administrative	60%	36%	26%	-2%	30%	-13%	-6%	-11%	38%	-1%	2%	15%		11%	6%	7%	1%	20%	0%	
Operating income (loss)	13%	24%	23%	-28%	6%	-17%	11%	-19%	36%	0%	11%	12%		11%	15%	9%	-19%	-17%	-21%	
Net income (loss)	21%	24%	7%	-79%	-33%	-28%	11%	-27%	67%	-3%	20%	12%		11%	18%	8%	-19%	-17%	-20%	-13
EPS Diluted (Pro forma)	-22%	-38%	-67%	-94%	-74%	-78%	-61%	-59%	5%	-55%	5%	-24%	-14%	-26%	-17%	-26%	-22%	-18%	-21%	-21

Source: Company reports and Ascendiant Capital Markets estimates.



## ENDRA Life Sciences Inc.

Balance Sheet (\$ mils)	Mar-20	Jun-20	Sep-20	Dec-20	Mar-21	Jun-21	Sep-21	Dec-21	Mar-22	Jun-22	Sep-22	Dec-22	Mar-23	Jun-23	Sep-23	Dec-23
Fiscal Year End: December 31	Q1A	Q2A	Q3A	Q4A	Q1A	Q2A	Q3A	Q4A	Q1A	Q2A	Q3A	Q4E	Q1E	Q2E	Q3E	Q4E
Assets																
Cash and cash equivalents	3.1	0.7	3.8	7.2	16.8	14.0	11.8	9.5	7.1	11.3	8.0	7.3	4.9	3.0	0.4	(1.5
•	3.1	0.7	3.0	1.2	10.0	14.0	11.0	9.5	7.1	11.3	0.0	0.0	0.0	0.0	0.4	0.0
Short term investments														0.0		
Accounts receivable, net	0.0	0.3	0.0	0.0	0.7	4.0	4.5	4.0	4.0	0.4	0.0	0.0	0.2		0.8	1.1
Inventory	0.2	0.3	0.3	0.6	0.7	1.3	1.5	1.3	1.9	2.4	2.6	0.0	0.0	0.1	0.1	0.1
Deferred income taxes												0.0	0.0	0.0	0.0	0.0
Prepaid expenses and other	0.5	1.2	0.7	0.4	0.8	1.0	1.2	1.3	1.1	0.8	0.9	0.0	0.1	0.3	0.4	0.5
Total current assets	3.8	2.3	4.8	8.2	18.4	16.3	14.5	12.1	10.1	14.5	11.6	7.3	5.3	4.0	1.6	0.2
Property and equipment, net	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.6	0.6
Intangibles, net												0.0	0.0	0.0	0.0	0.0
Deferred income tax												0.0	0.0	0.0	0.0	0.0
Other	0.4	0.4	0.4	0.3	0.3	0.7	0.7	0.6	0.6	0.6	0.5	0.0	0.0	0.0	0.0	0.0
Total assets	4.4	2.9	5.4	8.8	18.9	17.2	15.3	12.9	10.9	15.3	12.3	7.6	5.6	4.4	2.2	0.8
Liabilities and stockholders' equity																
Accounts payable	1.4	1.2	1.3	0.9	0.7	1.5	1.4	1.4	1.2	1.4	1.6	0.0	0.6	1.8	2.1	3.0
Accrued expenses												0.0	0.1	0.3	0.4	0.5
Deferred income tax												0.0	0.0	0.0	0.0	0.0
Other	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Short term debt	0.0	***	***	***		• • • •	***	•••				0.0	0.0	0.0	0.0	0.0
Total current liabilities	1.6	1.2	1.4	1.0	0.8	1.6	1.6	1.5	1.4	1.5	1.7	0.1	0.8	2.2	2.6	3.6
Deferred income taxes												0.0	0.0	0.0	0.0	0.0
Warrant liabilities												0.0	0.0	0.0	0.0	0.0
Other long term liabilities	0.3	0.3	0.3	0.3	0.3	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Long term debt	0.5	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total other liabilities	0.3	0.6	0.6	0.6	0.3	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4
Preferred stock	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Common stock	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	1.2	1.6
	51.0	52.2	58.4	64.5	77.5	77.8	78.7	79.5	80.6	88.5	88.8	88.8	88.8	88.8	88.8	88.8
Additional paid-in capital	(48.5)	(51.4)	58.4 (55.1)		(59.7)	(62.9)	78.7 (65.6)				(78.6)		(85.1)	(88.0)		
Retained earnings			(55.1)	(57.3)	(59.7)	(6∠.9)	(0.60)	(68.7)	(71.5)	(75.1)	(78.6)	(82.0)	( /	(/	(90.9)	(93.6
Accumulated other comprehensive in	0.1	0.2										0.0	0.0	0.0	0.0	0.0
Other					0.1	0.1	0.0	400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total stockholders' equity	2.5	1.0	3.3	7.2	17.9	15.0	13.2	10.8	9.1	13.3	10.2	7.1	4.3	1.7	(0.9)	(3.3
Total stockholders' equity and liabili	4.4	2.9	5.4	8.8	18.9	17.2	15.3	12.9	10.9	15.3	12.3	7.6	5.6	4.4	2.2	0.8

#### **Balance Sheet Drivers**

Dalatice Officer Differs																
	Mar-20	Jun-20	Sep-20	Dec-20	Mar-21	Jun-21	Sep-21	Dec-21	Mar-22	Jun-22	Sep-22	Dec-22	Mar-23	Jun-23	Sep-23	Dec-23
	Q1A	Q2A	Q3A	Q4A	Q1A	Q2A	Q3A	Q4A	Q1A	Q2A	Q3A	Q4E	Q1E	Q2E	Q3E	Q4E
Prepaid as % of total rev	#DIV/0!	50%	50%	50%	50%	50%										
Accounts payable as % of total rev		#DIV/0!											300%	300%	300%	300%
Inventories as % of cost of rev		#DIV/0!											20%	20%	20%	20%
Accrued expenses as % of total rev	#DIV/0!	50%	50%	50%	50%	50%										
Activity Ratios																
A/R Days Sales Outstanding	#DIV/0!	100	100	100	100	100										
Inventory Turnover	0.0x		0.0x			0.0x	0.0x					#DIV/0!		6.7x	17.1x	14.0x
A/P Days Payable	#DIV/0!	540	1620	630	771											
Book & Cash Value (per share)																
Book Value per Share (diluted)	\$0.22	\$0.07	\$0.14	\$0.27	\$0.47	\$0.36	\$0.31	\$0.25	\$0.21	\$0.22	\$0.16	\$0.11	\$0.07	\$0.03	-\$0.01	-\$0.05
Cash per Share (diluted)	\$0.27	\$0.05	\$0.16	\$0.27	\$0.45	\$0.34	\$0.28	\$0.22	\$0.17	\$0.18	\$0.13	\$0.12	\$0.08	\$0.05	\$0.01	-\$0.02
Net cash per Share (diluted)	\$0.27	\$0.03	\$0.14	\$0.26	\$0.45	\$0.34	\$0.28	\$0.22	\$0.16	\$0.18	\$0.13	\$0.12	\$0.08	\$0.05	\$0.01	-\$0.02

Source: Company reports and Ascendiant Capital Markets estimates



Cash Flow Statement (\$ mils)	Mar-20	Jun-20	Sep-20	Dec-20	2020	Mar-21	Jun-21	Sep-21	Dec-21	2021	Mar-22	Jun-22	Sep-22	Dec-22	2022	Mar-23	Jun-23	Sep-23	Dec-23	2023
iscal Year End: December 31	Q1A	Q2A	Q3A	Q4A	FY-A	Q1A	Q2A	Q3A	Q4A	FY-A	Q1A	Q2A	Q3A	Q4E	FY-E	Q1E	Q2E	Q3E	Q4E	FY-E
Cash flow from operating activit	ioe																			
Net income	(3.3)	(2.9)	(3.3)	(2.3)	(11.7)	(2.3)	(3.2)	(2.7)	(3.1)	(11.2)	(2.9)	(3.6)	(3.4)	(3.5)	(13.3)	(3.1)	(2.9)	(2.9)	(2.8)	(11
Depreciation	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	(,,
Amortization	0.0	(0.0)		0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	
Debt related amortization expen	0.2	0.0	0.0	0.0	0.2	(0.3)	0.0	0.0	0.0	(0.3)	0.0	0.0	0.0		0.0					
Stock comp	0.2	0.5	0.5	0.5	2.1	0.3)	0.3	0.3	0.4	1.4	0.3	0.3	0.3	0.3	1.2	0.3	0.3	0.3	0.3	
Deferred income taxes	0.0	0.5	0.5	0.5	0.0	0.4	0.5	0.5	0.4	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	
Change in fair value of warrant li	ability				0.0					0.0				0.0	0.0	0.0	0.0	0.0	0.0	
Writedowns and impairments	ability				0.0				0.0	0.0					0.0					
Other gains/losses					0.0				0.0	0.0					0.0					
Other gallis/losses	(0.0)	0.0	(0.0)	0.0	0.0					0.0					0.0					
Changes in operating assets and li	( /	0.0	(0.0)	0.0	0.0					0.0					0.0					'
Accounts receivable	abilities.				0.0					0.0				0.0	0.0	(0.2)	(0.4)	(0.1)	(0.2)	(
	(0.4)	(0.0)	0.0	(0.0)		(0.4)	(0.0)	(0.0)	0.0		(0.0)	(0.4)	(0.0)	0.0		(0.2)	(0.4)	(0.1)	(0.3)	
Inventory	(0.1)	(0.2)		(0.3) 0.3	(0.5)	(0.1)	(0.6)	(0.2)	0.2 (0.2)	(0.7)	(0.6) 0.3	(0.4) 0.2	(0.3)	2.6 0.9	1.3	(0.0)	(0.0)	(0.0)	(0.0)	(
Prepaid expenses & other curre	(0.3)	(0.7)	0.5	0.3	(0.1)	(0.4)	(0.2)	(0.2)	(0.2)	(1.0)	0.3	0.2	(0.1)	0.9	1.3 0.0	(0.1)	(0.2)	(0.1)	(0.2)	,
Income tax Other assets	0.0	(0.0)	0.0	(0.0)	0.0 (0.1)					0.0				0.5	0.0	0.0	0.0	0.0	0.0	
		( /				(0.0)	0.0	(0.1)	(0.0)	0.5	(0.0)	0.4	0.0	(1.6)		0.6	1.2	0.0	0.0	
Accounts payable	(0.3)	(0.2)	0.0	(0.4)	(0.9)	(0.2)	0.8	(0.1)	(0.0)		(0.2)	0.1	0.2		(1.4)					
Accrued expenses					0.0	(0.0)	(0.0)	(0.0)	(0.0)	0.0	(0.0)	(0.0)	(0.0)	0.0	0.0	0.1	0.2	0.1	0.2	(
Other liabilities					0.0	(0.0)	(0.0)	(0.0)	(0.0)	(0.1)	(0.0)	(0.0)	(0.0)	0.0	(0.1)	0.0	0.0	0.0	0.0	<u>(</u>
Net cash (used in) provided by	(3.1)	(3.5)	(2.1)	(2.1)	(10.8)	(2.9)	(2.8)	(2.7)	(2.7)	(11.1)	(3.1)	(3.3)	(3.2)	(0.6)	(10.3)	(2.4)	(1.9)	(2.3)	(1.9)	(8
Cash flow from investing activit	ies																			
Purchases of property and equip	(0.0)		0.0	(0.0)	(0.1)	(0.0)				(0.0)	(0.1)	(0.1)	(0.0)	(0.1)	(0.3)	(0.0)	(0.1)	(0.3)	(0.0)	((
Purchases of short-term investm	ents				0.0					0.0					0.0	. ,				1
Acquisitions					0.0					0.0					0.0					
Other					0.0					0.0					0.0					
Net cash used in investing activ	(0.0)	0.0	0.0	(0.0)	(0.1)	(0.0)	0.0	0.0	0.0	(0.0)	(0.1)	(0.1)	(0.0)	(0.1)	(0.3)	(0.0)	(0.1)	(0.3)	(0.0)	(0
Cook flow from financian coticit																				
Cash flow from financing activit	162	0.0								0.0				0.0		0.0	0.0	0.0	0.0	0
Issuance of debt		0.3	0.0	0.0	0.3					0.0				0.0	0.0	0.0	0.0	0.0	0.0	
Repayment of debt		(0.0)		0.0	0.0	0.0		0.5	0.0	0.0		7.5		0.0	0.0	0.0	0.0	0.0	0.0	(
Issuance of stock		0.8	0.5	5.5	6.8	9.8		0.5	0.3	10.6	0.9	7.5		0.0	8.4	0.0	0.0	0.0	0.0	(
Proceeds from stock option exe	0.0	0.0	4.6	0.1	4.8	2.8				2.8					0.0					1
Other					0.0					0.0					0.0					1 '
<u>Dividends and distributions</u>					0.0					0.0					0.0					9
Cash provided by (used in) fina	0.0	1.1	5.2	5.6	11.9	12.6	0.0	0.5	0.3	13.4	0.9	7.5	0.0	0.0	8.4	0.0	0.0	0.0	0.0	(
Effect of exchange rate on cash					0.0					0.0					0.0					(
Net increase (decrease) in cash	(3.1)	(2.4)	3.0	3.4	1.1	9.6	(2.8)	(2.3)	(2.3)	2.2	(2.3)	4.2	(3.3)	(0.7)	(2.1)	(2.4)	(1.9)	(2.6)	(1.9)	(
Beginning cash and equivalents	6.2	3.1	0.7	3.8	6.2	7.2	16.8	14.0	11.8	7.2	9.5	7.1	11.3	8.0	9.5	7.3	4.9	3.0	0.4	,
Ending cash and equivalents	3.1	0.7	3.8	7.2	7.2	16.8	14.0	11.8	9.5	9.5	7.1	11.3	8.0	7.3	7.3	4.9	3.0	0.4	(1.5)	(

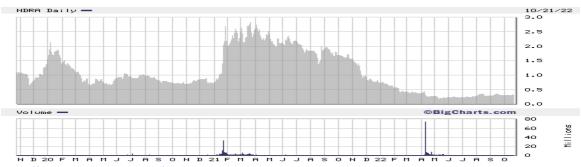
Ending cash and equivalents 3.1 0.7 3.8 7.3 Source: Company reports and Ascendiant Capital Markets estimates



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## **ENDRA Life Sciences Inc.**



Source: <a href="https://bigcharts.marketwatch.com/">https://bigcharts.marketwatch.com/</a>

	Report Date		Price
Report	Date	Rating	Target
1	4/10/2019	Buy	4.50
2	5/15/2019	Buy	4.25
3	8/12/2019	Buy	3.25
4	11/18/2019	Buy	2.75
5	1/28/2020	Buy	3.00
6	3/29/2020	Buy	2.50
7	5/19/2020	Buy	2.75
8	8/18/2020	Buy	3.25
9	11/21/2020	Buy	3.50
10	4/4/2021	Buy	5.50
11	5/31/2021	Buy	6.00
12	8/23/2021	Buy	6.50
13	11/17/2021	Buy	6.25
14	4/12/2022	Buy	5.50
15	6/5/2022	Buy	5.00
16	9/7/2022	Buy	4.50

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**BUY:** We expect the stock to provide a total return of 15% or more within a 12-month period.

HOLD: We expect the stock to provide a total return of negative 15% to positive 15% within a 12-month period.

SELL: We expect the stock to have a negative total return of more than 15% within a 12-month period.

Total return is defined as price appreciation plus dividend yield.

#### **Ascendiant Capital Markets, LLC Rating System**

Prior to January 31, 2014, ASCM used the following rating system:

**Strong Buy:** We expect the stock to provide a total return of 30% or more within a 12-month period.

**Buy:** We expect the stock to provide a total return of between 10% and 30% within a 12-month period.

**Neutral:** We expect the stock to provide a total return of between minus 10% and plus 10% within a 12-month period.

**Sell:** We expect the stock to provide a total return of minus 10% or worse within a 12-month period.

Speculative Buy: This rating is reserved for companies we believe have tremendous potential, but whose stocks are illiquid or

whose equity market capitalizations are very small, often in the definition of a nano cap (below \$50 million in market cap). In general, for stocks ranked in this category, we expect the stock to provide a total return of 50% or more within a 12-month period. However, because of the illiquid nature of the stock's trading and/or the nano

cap nature of the investment, we caution that these investments may not be suitable for all parties.

Total return is defined as price appreciation plus dividend yield.



#### Ascendiant Capital Markets, LLC Distribution of Investment Ratings (as of October 7, 2022)

			Past 1	.2 months
Rating	Count	Percent	Count	Percent
Buy	43	98%	17	40%
Hold	0	0%	0	0%
Sell	1	2%	0	0%
Total	44	100%	17	39%

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