

Arvinas

Promising efficacy and safety for ARV-766 in mutant mCRPC patients; maintain Buy

Maintain Rating: BUY | PO: 62.00 USD | Price: 24.01 USD

Potential to provide benefit to AR L702H mutant pts

ARVN announced positive safety and early efficacy results from its ph 1/2 study for its 2nd gen androgen receptor (AR) PROTAC, ARV-766, in metastatic castration-resistant prostate cancer (mCRPC) pts. ARV-766 was designed to target AR mutations that arise in pts that relapse after novel hormonal agents (NHAs), such as L702H, which is not well targeted by its other AR PROTAC, bavdegalutamide. In the update, 28% of pts had AR mutations (13/47), with 5 pts having a L702H mutation. Reduction of 50% or more of prostate specific antigen (PSA₅₀) was achieved by 42% of AR mut pts and 60% in pts with the L702H mutation (3/5). Of the 4 RECIST-evaluable pts, 2 pts showed partial response (PR, 1 confirmed and 1 unconfirmed). Treatment was well tolerated with majority grade (Gr) 1/2 treatment-related adverse events (TRAEs), no dose-limited toxicities (DLTs) up to 500mg, and only one discontinuation in the ph 2 portion. We are encouraged by the early benefit seen in AR mut pts that are traditionally difficult to treat (~8-11K pts) and potential to have two AR-targeted therapies to address the unmet need in this population. ARV-766 is valued in our \$2.5bn gross pipeline plug, and we plan to assign standalone value with a larger dataset. We maintain our Buy rating and \$62 PO.

Looking for overall benefit in WT and mut mCRPC pts

Initial data focused on 34 pts in the ph 1 portion (treated for a median of 10 wks, up to 8 mos) and 13 pts in the ph 2 portion. Management continues to enroll in the ph 2 portion of the trial (up to ~80 pts) to select optimal dose at 100mg or 300mg; however, the timeline for future updates has not been given. Although we see early promising efficacy in AR mutant pts, we look to see if wild-type (WT) tumors also show similar clinical benefit. The company is optimistic that ARV-766 could benefit less pre-treated patients and expects to initiate a combination trial in earlier-line NHA-naïve pts with ARV-766 and abiraterone in 2H. We also note that ARVN is on track to initiate its ph 3 study for bavdegalutamide in AR T878/H875 mut pts in 2H.

Early clean safety profile needs to be maintained in ph 2

Of the 47 treated pts, no Gr ≥4 TRAEs were reported. The most frequent TRAEs (≥10%) reported in ph 1 were fatigue, nausea, and diarrhea. Dose interruption or reduction was reported in 6 pts (3 in ph 1, 3 in ph 2 at 300mg). As the company expands the ph 2 cohort, we look to see the clean safety profile maintained at the higher 300mg dose.

Estimates (Dec) (US\$)	2021A	2022A	2023E	2024E	2025E
EPS	(3.82)	(5.31)	(7.78)	(10.02)	(11.43)
GAAP EPS	(3.82)	(5.11)	(7.78)	(10.02)	(11.43)
EPS Change (YoY)	-26.5%	-39.0%	-46.5%	-28.8%	-14.1%
Consensus EPS (Bloomberg)			(6.59)	(7.80)	(7.26)
DPS	0	0	0	0	0
Valuation (Dec)					
P/E	NM	NM	NM	NM	NM
GAAP P/E	NM	NM	NM	NM	NM
Dividend Yield	0%	0%	0%	0%	0%
EV / EBITDA*	NM	NM	NM	NM	NM
Free Cash Flow Yield*	43.3%	-21.9%	1.4%	0.4%	-0.2%
* For full definitions of <i>IQ</i> method SM measures, see page 4.					

Bof A Securities does and seeks to do business with issuers covered in its research reports. As a result, 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 their investment decision. Refer to important disclosures on page 5 to 7. Analyst Certification on page 3. Price Objective Basis/Risk on page 3. 12567324

Timestamp: 08 June 2023 02:27PM EDT

08 June 2023

Equity

Tazeen Ahmad Research Analyst

taze en.ahmad@bofa.com

Daniel Giraldo Research Analyst daniel.giraldoperez@bofa.com

Jeremiah Lorentz Research Analyst **BofAS** ieremiah.lorentz@bofa.com

Stock Data

24.01 USD 62.00 USD Price Objective Date Established 10-May-2023 Investment Oninion C-1-9 21.21 USD - 58.58 USD 52-Week Range Mrkt Val (mn) / Shares Out 1282 LISD / 53.4

Average Daily Value (mn) 9.59 USD BofA Ticker / Exchange ARVN / NAS Bloomberg / Reuters ARVN US / ARVN.OQ ROE (2023E) -74.5% Net Dbt to Eqty (Dec-2022A) -15.2% ESGMeter™ Low

ESGMeter is not indicative of a company's future stock price performance and is not an investment recommendation or rating. ESGMeter is independent of BofA Global Research's equity investment rating, volatility risk rating, income rating, and price objective for that company. For full details, refer to

Abbreviations

gen: generation

mg: milligram

mos: months

mut: mutant

ph: phase

PO: price objective

PROTAC: proteolysis targeting

chimera

pts: patients

wks: weeks

iQprofile[™] Arvinas

(US\$ Millions)	2021A	2022A	2023E	2024E	2025
Return on Capital Employed	-17.6%	-20.7%	-38.1%	-50.4%	-59.4%
Return on Equity	-26.8%	-42.0%	-74.5%	-98.3%	-116.6%
Operating Margin	-418.4%	-200.3%	-315.6%	-441.3%	-315.3%
Free Cash Flow	555	(280)	18	5	(3)
iQmethod [™] – Quality of Earnings*					
(US\$ Millions)	2021A	2022A	2023E	2024E	2025
Cash Realization Ratio	NM	NM	NM	NM	NM
Asset Replacement Ratio	1.0x	1.1x	1.2x	1.3x	1.4>
Tax Rate	NM	NM	NM	NM	NM
Net Debt-to-Equity Ratio	-14.3%	-15.2%	-50.5%	-53.2%	-55.3%
Interest Cover	NM	-12.6x	-19.8x	-26.1x	-30.3
Income Statement Data (Dec)					
(US\$ Millions)	2021A	2022A	2023E	2024E	20251
Sales	47	131	131	123	201
% Change	114.1%	181.6%	-0.4%	-5.7%	62.9%
Gross Profit	47	131	131	123	201
% Change	114.1%	181.6%	-0.4%	-5.7%	62.9%
EBITDA	(190)	(257)	(407)	(538)	(627)
% Change	-56.5%	-34.9%	-58.4%	-32.3%	-16.6%
Net Interest & Other Income	4	(9)	(9)	(9)	(9)
Net Income (Adjusted)	(191)	(283)	(422)	(553)	(642
% Change	-60.1%	-47.9%	-49.3%	-31.2%	-16.1%
Free Cash Flow Data (Dec)					
• •	2021A	2022A	2023E	2024E	2025
(US\$ Millions)	2021A (191)	2022A (272)	2023E (422)	2024E (553)	
• •					(642
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization	(191)	(272)	(422)	(553)	(642)
(US\$ Millions) Net Income from Cont Operations (GAAP)	(191) 5	(272) 6	(422) 6	(553) 6	(642) 6 21
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital	(191) 5 678	(272) 6 (83)	(422) 6 21	(553) 6 21	(642) 6 21 NA
Depreciation & Amortization Change in Working Capital Deferred Taxation Charge	(191) 5 678 NA	(272) 6 (83) NA	(422) 6 21 NA	(553) 6 21 NA	(642) 6 21 NA 622
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net	(191) 5 678 NA 67	(272) 6 (83) NA 75	(422) 6 21 NA 420	(553) 6 21 NA 539	(642) 6 21 NA 622 (9)
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure	(191) 5 678 NA 67 (5)	(272) 6 (83) NA 75 (7)	(422) 6 21 NA 420 (7)	(553) 6 21 NA 539 (8)	(642) 6 21 NA 622 (9)
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow	(191) 5 678 NA 67 (5)	(272) 6 (83) NA 75 (7)	(422) 6 21 NA 420 (7) 18	(553) 6 21 NA 539 (8)	2025I (642) 6 21 NA 622 (9) -3
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Balance Sheet Data (Dec)	(191) 5 678 NA 67 (5)	(272) 6 (83) NA 75 (7)	(422) 6 21 NA 420 (7) 18	(553) 6 21 NA 539 (8)	(642) 6 21 NA 622 (9) -3
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change	(191) 5 678 NA 67 (5) 555 NM	(272) 6 (83) NA 75 (7) -280 NM	(422) 6 21 NA 420 (7) 18 NM	(553) 6 21 NA 539 (8) 5 -73.6%	(642) 6 21 NA 622 (9)
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Balance Sheet Data (Dec) (US\$ Millions)	(191) 5 678 NA 67 (5) 555 NM 2021A 113 15	(272) 6 (83) NA 75 (7) -280 NM	(422) 6 21 NA 420 (7) 18 NM	(553) 6 21 NA 539 (8) 5 -73.6% 2024E 298 3	(642) 6 21 NA 622 (9) -3 NM
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Balance Sheet Data (Dec) (US\$ Millions) Cash & Equivalents	(191) 5 678 NA 67 (5) 555 NM	(272) 6 (83) NA 75 (7) -280 NM	(422) 6 21 NA 420 (7) 18 NM	(553) 6 21 NA 539 (8) 5 -73.6%	(642) 6 21 NA 622 (9) -3 NM
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Balance Sheet Data (Dec) (US\$ Millions) Cash & Equivalents Trade Receivables	(191) 5 678 NA 67 (5) 555 NM 2021A 113 15	(272) 6 (83) NA 75 (7) -280 NM	(422) 6 21 NA 420 (7) 18 NM	(553) 6 21 NA 539 (8) 5 -73.6% 2024E 298 3	(642) 6 21 NA 622 (9) -3 NM 2025 302 4
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Balance Sheet Data (Dec) (US\$ Millions) Cash & Equivalents Trade Receivables Other Current Assets	(191) 5 678 NA 67 (5) 555 NM 2021A 113 15 1,425	(272) 6 (83) NA 75 (7) -280 NM 2022A 87 1 1,152	(422) 6 21 NA 420 (7) 18 NM 2023E 287 2 973 15	(553) 6 21 NA 539 (8) 5 - 73.6% 2024E 298 3 971	(642) 6 21 NA 622 (9) -3 NM 2025 302 4 969
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Balance Sheet Data (Dec) (US\$ Millions) Cash & Equivalents Trade Receivables Other Current Assets Property, Plant & Equipment	(191) 5 678 NA 67 (5) 555 NM 2021A 113 15 1,425 13	(272) 6 (83) NA 75 (7) -280 NM 2022A 87 1 1,152 13	(422) 6 21 NA 420 (7) 18 NM 2023E 287 2 973 15	(553) 6 21 NA 539 (8) 5 -73.6% 2024E 298 3 971 17	(642) 6 21 NA 622 (9) -3 NM
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Balance Sheet Data (Dec) (US\$ Millions) Cash & Equivalents Trade Receivables Other Current Assets Property, Plant & Equipment Other Non-Current Assets	(191) 5 678 NA 67 (5) 555 NM 2021A 113 15 1,425 13 16	(272) 6 (83) NA 75 (7) -280 NM 2022A 87 1 1,152 13	(422) 6 21 NA 420 (7) 18 NM 2023E 287 2 973 15	(553) 6 21 NA 539 (8) 5 -73.6% 2024E 298 3 971 17 14	(642) 6 21 NA 622 (9 -3 NM 2025 302 2 969 19
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Balance Sheet Data (Dec) (US\$ Millions) Cash & Equivalents Trade Receivables Other Current Assets Property, Plant & Equipment Other Non-Current Assets Total Assets	(191) 5 678 NA 67 (5) 555 NM 2021A 113 15 1,425 13 16 1,582	(272) 6 (83) NA 75 (7) -280 NM 2022A 87 1 1,152 13 15 1,269	(422) 6 21 NA 420 (7) 18 NM 2023E 287 2 973 15 14 1,292	(553) 6 21 NA 539 (8) 5 -73.6% 2024E 298 3 971 17 14 1,303	(642) 6 21 NA 622 (9 -3 NM 2025 302 4 969 19
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Balance Sheet Data (Dec) (US\$ Millions) Cash & Equivalents Trade Receivables Other Current Assets Property, Plant & Equipment Other Non-Current Assets Total Assets Short-Term Debt	(191) 5 678 NA 67 (5) 555 NM 2021A 113 15 1,425 13 16 1,582 0	(272) 6 (83) NA 75 (7) -280 NM 2022A 87 1 1,152 13 15 1,269	(422) 6 21 NA 420 (7) 18 NM 2023E 287 2 973 15 14 1,292 0	(553) 6 21 NA 539 (8) 5 -73.6% 2024E 298 3 971 17 14 1,303 0	(642) 6 21 NA 622 (9 -3 NM 2025 302 4 965 19 1,308
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Balance Sheet Data (Dec) (US\$ Millions) Cash & Equivalents Trade Receivables Other Current Assets Property, Plant & Equipment Other Non-Current Assets Short-Term Debt Other Current Liabilities	(191) 5 678 NA 67 (5) 555 NM 2021A 113 15 1,425 13 16 1,582 0 262	(272) 6 (83) NA 75 (7) -280 NM 2022A 87 1 1,152 13 15 1,269 0 295	(422) 6 21 NA 420 (7) 18 NM 2023E 287 2 973 15 14 1,292 0 315	(553) 6 21 NA 539 (8) 5 -73.6% 2024E 298 3 971 17 14 1,303 0 336	(642) 6 21 NA 622 (9 -3 NM 2025 302 2 969 19 14 1,308
Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Balance Sheet Data (Dec) (US\$ Millions) Cash & Equivalents Trade Receivables Other Current Assets Property, Plant & Equipment Other Non-Current Assets Short-Term Debt Other Current Liabilities Long-Term Debt	(191) 5 678 NA 67 (5) 555 NM 2021A 113 15 1,425 13 16 1,582 0 262 1	(272) 6 (83) NA 75 (7) -280 NM 2022A 87 1 1,152 13 15 1,269 0 295	(422) 6 21 NA 420 (7) 18 NM 2023E 287 2 973 15 14 1,292 0 315 1	(553) 6 21 NA 539 (8) 5 -73.6% 2024E 298 3 971 17 14 1,303 0 336 1	(642) (642) (74) (84) (94) (95) (96) (14) (130) (14) (14) (14) (14) (14) (14) (14) (14
(US\$ Millions) Net Income from Cont Operations (GAAP) Depreciation & Amortization Change in Working Capital Deferred Taxation Charge Other Adjustments, Net Capital Expenditure Free Cash Flow % Change Balance Sheet Data (Dec) (US\$ Millions) Cash & Equivalents Trade Receivables Other Current Assets Property, Plant & Equipment Other Non-Current Assets Short-Term Debt Other Current Liabilities Long-Term Debt Other Non-Current Liabilities	(191) 5 678 NA 67 (5) 555 NM 2021A 113 15 1,425 13 16 1,582 0 262 1 537	(272) 6 (83) NA 75 (7) -280 NM 2022A 87 1,152 13 15 1,269 0 295 1	(422) 6 21 NA 420 (7) 18 NM 2023E 287 2 973 15 14 1,292 0 315 1 408	(553) 6 21 NA 539 (8) 5 -73.6% 2024E 298 3 971 17 14 1,303 0 336 1 408	(642) 6 21 NA 622 (9) -3 NM 2025 302 4 969

Company Sector

Biotechnology

Company Description

Arvinas (ARVN) is a clinical-stage biotechnology company developing a pipeline of targeted protein degraders for oncology and neurodegenerative diseases. ARV-471 targeting estrogen receptor is in clinical development for ER+/HER2- breast cancer, and ARV-110 targeting androgen receptor is in the clinic for metastatic castration-resistant prostate cancer (mCRPC). The company is also developing a preclinical pipeline targeting central nervous system diseases and other indications.

Investment Rationale

We rate ARVN shares Buy. We have a positive view of ARVN's targeted protein degradation platform utilizing proteolysis-targeting chimeras (PROTAC), given the clean safety profile and early efficacy observed in trials to date. ARVN is a leader in the clinical development of protein degraders, and we think the modality is highly differentiated from competitive therapies. We also see significant upside potential in the preclinical pipeline in central nervous system (CNS) indications and beyond.

Stock Data

Average Daily Volume 396,531

Quarterly Earnings Estimates

	2022	2023
Q1	-1.20A	-1.54A
Q2	-1.32A	-1.83E
Q3	-1.24A	-2.02E
04	-1.56A	-2.49E

Price objective basis & risk

Arvinas (ARVN)

Our price objective (PO) of \$62 is based on a probability-adjusted net present value (NPV) analysis. Our valuation includes ARV-471 in ER+/HER2- breast cancer as 2L+(\$6/share) and 1L+(\$10/share) therapy, potential milestones for '471 from Pfizer (\$7/share), and ARV-110 in 3L+mCRPC (\$1/share). The remainder of our valuation comes from pipeline and net cash. Our discounted cash flow (DCF)-based model goes out to 2039, with 13% weighted-average cost of capital (WACC) for '471, 14% WACC for '110, and 14% WACC for pipeline expenses. We model no terminal value.

Upside risks to our PO are 1) better-than-expected clinical data in ongoing trials, 2) expansion into earlier lines of therapy, 3) accelerated approval for lead assets, and 4) positive clinical results for early-stage pipeline assets.

Downside risks to our PO are 1) failure to obtain approval for lead assets, 2) failure of '110 and '471 to differentiate from standard of care and competitive therapies, 3) lower-than-expected uptake in target indications, and 4) unexpected safety signals in ongoing trials.

Analyst Certification

I, Tazeen Ahmad, hereby certify that the views expressed in this research report accurately reflect my personal views about the subject securities and issuers. I also certify that no part of my compensation was, is, or will be, directly or indirectly, related to the specific recommendations or view expressed in this research report.

US - Biotechnology Coverage Cluster

Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
BUY				
	4D Molecular Therapeutics, Inc.	FDMT	FDMT US	Tazeen Ahmad
	Achilles Therapeutics	ACHL	ACHL US	Tazeen Ahmad
	Alnylam Pharmaceuticals	ALNY	ALNY US	Tazeen Ahmad
	Amicus Therapeutics	FOLD	FOLD US	Tazeen Ahmad
	Apellis Pharmaceuticals	APLS	APLS US	Tazeen Ahmad
	Argenx SE	ARGX	ARGX US	Tazeen Ahmad
	Arvinas	ARVN	ARVN US	Tazeen Ahmad
	Ascendis Pharma	ASND	ASND US	Tazeen Ahmad
	BioNTech	BNTX	BNTX US	Tazeen Ahmad
	Cerevel Therapeutics Holdings, Inc	CERE	CERE US	Tazeen Ahmad
	Denali Therapeutics	DNLI	DNLIUS	Tazeen Ahmad
	Galera Therapeutics	GRTX	GRTX US	Tazeen Ahmad
	Inozyme Pharma, Inc.	INZY	INZY US	Tazeen Ahmad
	Neurocrine Biosciences	NBIX	NBIX US	Tazeen Ahmad
	PepGen Inc	PEPG	PEPG US	Tazeen Ahmad
	Prothena Corporation	PRTA	PRTA US	Tazeen Ahmad
	SAGE Therapeutics	SAGE	SAGE US	Tazeen Ahmad
	Sarepta Therapeutics	SRPT	SRPT US	Tazeen Ahmad
	Ultragenyx Pharmaceuticals	RARE	RARE US	Tazeen Ahmad
NEUTRAL				
	Acadia Pharmaceuticals	ACAD	ACAD US	Tazeen Ahmad
	Annexon Biosciences	ANNX	ANNX US	Tazeen Ahmad
	Biocryst Pharmaceuticals Inc	BCRX	BCRX US	Tazeen Ahmad
	Cyteir Therapeutics	CYT	CYT US	Tazeen Ahmad



US - Biotechnology Coverage Cluster

Investment rating	Company	Bof A Ticker	Bloomberg symbol	Analyst
	Incyte Corporation	INCY	incy us	Tazeen Ahmad
	Pyxis Oncology Inc	PYXS	PYXS US	Tazeen Ahmad
	Rhythm Pharmaceuticals	RYTM	RYTM US	Tazeen Ahmad
UNDERPERFORM				
	ADC Therapeutics SA	ADCT	ADCT US	Tazeen Ahmad
	Fate Therapeutics	FATE	FATE US	Tazeen Ahmad
	Fulcrum Therapeutics	FULC	FULC US	Tazeen Ahmad
	Pharvaris	PHVS	PHVS US	Tazeen Ahmad
	Prelude Therapeutics	PRLD	PRLD US	Tazeen Ahmad
	PTC Therapeutics	PTCT	PTCT US	Tazeen Ahmad
RSTR				
	VectivBio AG	VECT	VECT US	Tazeen Ahmad

Qmethod [™] Measures Definitions

Business Performance	Numerator	Denominator
Return On Capital Employed	NOPAT = (EBIT + Interest Income) \times (1 – Tax Rate) + Goodwill Amortization	Total Assets — Current Liabilities +ST Debt +Accumulated Goodwill Amortization
Return On Equity	Net Income	Shareholders' Equity
Operating Margin	Operating Profit	Sales
Earnings Growth	Expected 5 Year CAGR From Latest Actual	N/A
Free Cash Flow	Cash Flow From Operations – Total Capex	N/A
Quality of Earnings	Numerator	Denominator
Cash Realization Ratio	Cash Flow From Operations	Net Income
Asset Replacement Ratio	Capex	Depreciation
Tax Rate	Tax Charge	Pre-Tax Income
Net Debt-To-Equity Ratio	Net Debt = Total Debt — Cash & Equivalents	Total Equity
Interest Cover	EBIT	Interest Expense
Valuation Toolkit	Numerator	Denominator
Price / Earnings Ratio	Current Share Price	Diluted Earnings Per Share (Basis As Specified)
Price / Book Value	Current Share Price	Shareholders' Equity / Current Basic Shares
Dividend Yield	Annualised Declared Cash Dividend	Current Share Price
Free Cash Flow Yield	Cash Flow From Operations — Total Capex	Market Cap = Current Share Price × Current Basic Shares
Enterprise Value / Sales	EV = Current Share Price × Current Shares + Minority Equity + Net Debt + Other LT Liabilities	Sales
EV / EBITDA	Enterprise Value	Basic EBIT + Depreciation + Amortization

EV / EBITDA Enterprise Value Basic EBIT + Depreciation + Amortization

Monethod 5 is the set of BofA Global Research standard measures that serve to maintain global consistency under three broad headings: Business Performance, Quality of Earnings, and validations. The key features of iQmethod are: A consistently structured, detailed, and transparent methodology. Guidelines to maximize the effectiveness of the comparative valuation process, and to identify some common pitfalls.

Modatabase is our real-time global research database that is sourced directly from our equity analysts' earnings models and includes forecasted as well as historical data for income statements, balance sheets, and cash flow statements for companies covered by BofA Global Research.

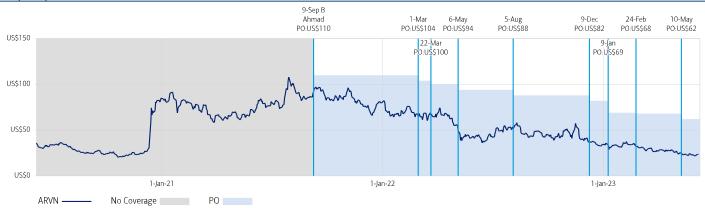
IQprofileSM, IQmethod SM are service marks of Bank of America Corporation. IQdatabase[®] is a registered service mark of Bank of America Corporation.



Disclosures

Important Disclosures

Arvinas (ARVN) Price Chart



B: Buy, N: Neutral, U: Underperform, PO: Price Objective, NA: No longer valid, NR: No Rating

The Investment Opinion System is contained at the end of the report under the heading "Fundamental Equity Opinion Key". Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.

Equity Investment Rating Distribution: Health Care Group (as of 31 Mar 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	232	56.86%	Buy	104	44.83%
Hold	86	21.08%	Hold	44	51.16%
Sell	90	22.06%	Sell	23	25.56%

Equity Investment Rating Distribution: Global Group (as of 31 Mar 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships ^{R1}	Count	Percent
Buy	1869	53.01%	Buy	1030	55.11%
Hold	827	23.45%	Hold	476	57.56%
Sell	830	23.54%	Sell	389	46.87%

RI Issuers that were investment banking dients of BofA Securities or one of its affiliates within the past 12 months. For purposes of this Investment Rating Distribution, the coverage universe includes only stocks. A stock rated Neutral is included as a Hold, and a stock rated Underperform is included as a Sell.

FUNDAMENTAL EQUITY OPINION KEY: Opinions include a Volatility Risk Rating, an Investment Rating and an Income Rating. VOLATILITY RISK RATINGS, indicators of potential price fluctuation, are: A - Low, B - Medium and C - High. INVESTMENT RATINGS reflect the analyst's assessment of both a stock's: absolute total return potential as well as its attractiveness for investment relative to other stocks within its Coverage Cluster (defined below). There are three investment ratings: 1 - Buy stocks are expected to have a total return of at least 10% and are the most attractive stocks in the coverage cluster; 2 - Neutral stocks are expected to remain flat or increase in value and are less attractive than Buy rated stocks and 3 - Underperform stocks are the least attractive stocks in a coverage cluster. Analysts assign investment ratings considering, among other things, the 0-12 month total return expectation for a stock and the firm's guidelines for ratings dispersions (shown in the table below). The current price objective for a stock should be referenced to better understand the total return expectation at any given time. The price objective reflects the analyst's view of the potential price appreciation (depreciation).

Investment rating	Total return expectation (within 12-month period of date of initial rating)	Ratings dispersion guidelines for coverage cluster ^{R2}
Buy	≥ 10%	≤ 70%
Neutral	≥ 0%	≤ 30%
Underperform	N/A	≥ 20%

Ratings dispersions may vary from time to time where BofA Global Research believes it better reflects the investment prospects of stocks in a Coverage Cluster.

INCOME RATINGS, indicators of potential cash dividends, are: 7 - same/higher (dividend considered to be secure), 8 - same/lower (dividend not considered to be secure) and 9 - pays no cash dividend. Coverage Cluster is comprised of stocks covered by a single analyst or two or more analysts sharing a common industry, sector, region or other classification(s). A stock's coverage cluster is included in the most recent BofA Global Research report referencing the stock.

Price Charts for the securities referenced in this research report are available on the Price Charts website, or call 1-800-MERRILL to have them mailed.

BofAS or one of its affiliates acts as a market maker for the equity securities recommended in the report: Arvinas.

BofAS or one of its affiliates is willing to sell to, or buy from, clients the common equity of the issuer on a principal basis: Arvinas.

BofA Global Research personnel (including the analyst(s) responsible for this report) receive compensation based upon, among other factors, the overall profitability of Bank of America Corporation, including profits derived from investment banking. The analyst(s) responsible for this report may also receive compensation based upon, among other factors, the overall profitability of the Bank's sales and trading businesses relating to the class of securities or financial instruments for which such analyst is responsible.

Other Important Disclosures

From time to time research analysts conduct site visits of covered issuers. BofA Global Research policies prohibit research analysts from accepting payment or reimbursement for travel expenses from the issuer for such visits.



Prices are indicative and for information purposes only. Except as otherwise stated in the report, for any recommendation in relation to an equity security, the price referenced is the publicly traded price of the security as of close of business on the day prior to the date of the report or, if the report is published during intraday trading, the price referenced is indicative of the traded price as of the date and time of the report and in relation to a debt security (including equity preferred and CDS), prices are indicative as of the date and time of the report and are from various sources including BofA Securities trading desks.

The date and time of completion of the production of any recommendation in this report shall be the date and time of dissemination of this report as recorded in the report timestamp.

Recipients who are not institutional investors or market professionals should seek the advice of their independent financial advisor before considering information in this report in connection with any investment decision, or for a necessary explanation of its contents.

Officers of BofAS or one or more of its affiliates (other than research analysts) may have a financial interest in securities of the issuer(s) or in related investments. Refer to BofA Global Research policies relating to conflicts of interest.

BofA Securities' includes BofA Securities, Inc. (*BofAS*) and its affiliates. Investors should contact their BofA Securities representative or Merrill Global Wealth Management financial advisor if they have questions concerning this report or concerning the appropriateness of any investment idea described herein for such investor. 'BofA Securities' is a global brand for BofA Global Research.

Information relating to Non-US affiliates of BofA Securities and Distribution of Affiliate Research Reports:

BofAS and/or Merrill Lynch, Pierce, Fenner & Smith Incorporated ("MLPF&S") may in the future distribute, information of the following non-US affiliates in the US (short name: legal name, regulator): Merrill Lynch (South Africa): Merrill Lynch South Africa (Pty) Ltd., regulated by The Financial Service Board; MLI (UK): Merrill Lynch International, regulated by the Financial Conduct Authority (FCA) and the Prudential Regulation Authority (PRA); BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle Prudential et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers (AMF). BofA Securities Europe SA ("BofASE") with registered address at 51, rue La Boétie, 75008 Paris is registered under no. 842 602 690 RCS Paris. In accordance with the provisions of French Code Monétaire et Financier (Monetary and Financial Code), BofASE is an établissement de crédit et d'investissement (credit and investment institution) that is authorised and supervised by the European Central Bank and the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers. BofASE's share capital can be found at www.bofaml.com/BofASEdisclaimer; BofA Europe (Milan): Bank of America Europe Designated Activity Company, Milan Branch, regulated by the Bank of Italy, the European Central Bank (ECB) and the Central Bank of Ireland (CBI); BofA Europe (Frankfurt): Bank of America Europe Designated Activity Company, Frankfurt Branch regulated by BaFin, the ECB and the CBI; BofA Europe (Madrid): Bank of America Europe Designated Activity Company, Sucursal en España, regulated by the Bank of Spain, the ECB and the CBI; Merrill Lynch (Australia): Merrill Lynch (Forgalized (Australia): Merrill Lynch (Hong Kong): Merrill (H (Asia Pacific) Limited, regulated by the Hong Kong Securities and Futures Commission (HKSFC); Merrill Lynch (Singapore): Merrill Lynch (Singapore) Pte Ltd, regulated by the Monetary Authority of Singapore (MAS); Merrill Lynch (Canada): Merrill Lynch (Canada): Merrill Lynch (Mexico): Merrill Lynch (Mexico) SA de CV, Casa de Bolsa, regulated by the Comisión Nacional Bancaria y de Valores; Merrill Lynch (Argentina): Merrill Lynch Argentina SA, regulated by Comisión Nacional de Valores; BofAS Japan: BofA Securities Japan Co., Ltd., regulated by the Financial Services Agency, Merrill Lynch (Seoul): Merrill Lynch International, LLC Seoul Branch, regulated by the Financial Supervisory Service; Merrill Lynch (Taiwan): Merrill Lynch Securities (Taiwan) Ltd., regulated by the Securities and Futures Bureau; BofAS India: BofA Securities India Limited, regulated by the Securities and Exchange Board of India (SEBI); Merrill Lynch (Israel): Merrill Lynch Israel Limited, regulated by Israel Securities Authority; Merrill Lynch (DIFC): Merrill Lynch International (DIFC Branch), regulated by the Dubai Financial Services Authority (DFSA); Merrill Lynch (Brazil): Merrill Lynch S.A. Corretora de Títulos e Valores Mobiliários, regulated by Comissão de Valores Mobiliários; Merrill Lynch KSA Company: Merrill Lynch Kingdom of Saudi Arabia Company, regulated by the Capital Market Authority.

This information: has been approved for publication and is distributed in the United Kingdom (UK) to professional clients and eligible counterparties (as each is defined in the rules of the FCA and the PRA) by MLI (UK), which is authorized by the PRA and regulated by the FCA and the PRA - details about the extent of our regulation by the FCA and PRA are available from us on request; has been approved for publication and is distributed in the European Economic Area (EEA) by BofASE (France), which is authorized by the ACPR and regulated by the ACPR and the AMF; has been considered and distributed in Japan by BofAS Japan, a registered securities dealer under the Financial Instruments and Exchange Act in Japan, or its permitted affiliates; is issued and distributed in Hong Kong by Merrill Lynch (Hong Kong) which is regulated by HKSFC; is issued and distributed in Taiwan by Merrill Lynch (Taiwan); is issued and distributed in India by BofAS India; and is issued and distributed in Singapore to institutional investors and/or accredited investors (each as defined under the Financial Advisers Regulations) by Merrill Lynch (Singapore) (Company Registration No 198602883D). Merrill Lynch (Singapore) is regulated by MAS. Merrill Lynch Equities (Australia) Limited (ABN 65 006 276 795), AFS License 235132 (MLEA) distributes this information in Australia only to 'Wholesale' clients as defined by s.761G of the Corporations Act 2001. With the exception of Bank of America N.A., Australia Branch, neither MLEA nor any of its affiliates involved in preparing this information is an Authorised Deposit-Taking Institution under the Banking Act 1959 nor regulated by the Australian Prudential Regulations. Merrill Lynch (DIFC) is authorized and regulated by the DFSA. Information in Brazil and its local distribution is by Merrill Lynch (Brazil) in accordance with applicable regulations. Merrill Lynch (DIFC) is authorized and regulated by the DFSA. Information prepared and issued by Merrill Lynch (DIFC) is admited by the Australian Prudentia

This information has been prepared and issued by BofAS and/or one or more of its non-US affiliates. The author(s) of this information may not be licensed to carry on regulated activities in your jurisdiction and, if not licensed, do not hold themselves out as being able to do so. BofAS and/or MLPF&S is the distributor of this information in the US and accepts full responsibility for information distributed to BofAS and/or MLPF&S clients in the US by its non-US affiliates. Any US person receiving this information and wishing to effect any transaction in any security discussed herein should do so through BofAS and/or MLPF&S and not such foreign affiliates. Hong Kong recipients of this information should contact Merrill Lynch (Asia Pacific) Limited in respect of any matters relating to dealing in securities or provision of specific advice on securities or any other matters arising from, or in connection with, this information. Singapore recipients of this information should contact Merrill Lynch (Singapore) Pte Ltd in respect of any matters arising from, or in connection with, this information. For clients that are not accredited investors, expert investors or institutional investors Merrill Lynch (Singapore) Pte Ltd accepts full responsibility for the contents of this information distributed to such clients in Singapore.

General Investment Related Disclosures:

Taiwan Readers: Neither the information nor any opinion expressed herein constitutes an offer or a solicitation of an offer to transact in any securities or other financial instrument. No part of this report may be used or reproduced or quoted in any manner whatsoever in Taiwan by the press or any other person without the express written consent of BofA Securities. This document provides general information only, and has been prepared for, and is intended for general distribution to, BofA Securities clients. Neither the information nor any opinion expressed constitutes an offer or an invitation to make an offer, to buy or sell any securities or other financial instrument or any derivative related to such securities or instruments (e.g., options, futures, warrants, and contracts for differences). This document is not intended to provide personal investment advice and it does not take into account the specific investment objectives, financial situation and the particular needs of, and is not directed to, any specific person(s). This document and its content do not constitute, and should not be considered to constitute, investment advice for purposes of ERISA, the US tax code, the Investment Advisers Act or otherwise. Investors should seek financial advice regarding the appropriateness of investing in financial instruments and implementing investment strategies discussed or recommended in this document and should understand that statements regarding future prospects may not be realized. Any decision to purchase or subscribe for securities in any offering must be based solely on existing public information on such security or the information in the prospectus or other offering document issued in connection with such offering, and not on this document.

Securities and other financial instruments referred to herein, or recommended, offered or sold by BofA Securities, are not insured by the Federal Deposit Insurance Corporation and are not deposits or other obligations of any insured depository institution (including, Bank of America, N.A.). Investments in general and, derivatives, in particular, involve numerous risks, including, among others, market risk, counterparty default risk and liquidity risk. No security, financial instrument or derivative is suitable for all investors. Digital assets are extremely speculative, volatile and are largely unregulated. In some cases, securities and other financial instruments may be difficult to value or sell and reliable information about the value or risks related to the security or financial instrument may be difficult to obtain. Investors should note that income from such securities and other financial instruments, if any, may fluctuate and that price or value of such securities and instruments may rise or fall and, in some cases, investors may lose their entire principal investment. Past performance is not necessarily a guide to future performance. Levels and basis for taxation may change.

This report may contain a short-term trading idea or recommendation, which highlights a specific near-term catalyst or event impacting the issuer or the market that is anticipated to have a short-term price impact on the equity securities of the issuer. Short-term trading ideas and recommendations are different from and do not affect a stock's fundamental equity rating, which reflects both a longer term total return expectation and attractiveness for investment relative to other stocks within its Coverage Cluster. Short-term trading ideas and recommendations may be more or less positive than a stock's fundamental equity rating.

BofA Securities is aware that the implementation of the ideas expressed in this report may depend upon an investor's ability to "short" securities or other financial instruments and that such action may be limited by regulations prohibiting or restricting "shortselling" in many jurisdictions. Investors are urged to seek advice regarding the applicability of such regulations prior to executing any short idea contained in this report.

Foreign currency rates of exchange may adversely affect the value, price or income of any security or financial instrument mentioned herein. Investors in such securities and instruments, including ADRs, effectively assume currency risk

BofAS or one of its affiliates is a regular issuer of traded financial instruments linked to securities that may have been recommended in this report. BofAS or one of its affiliates may, at any time, hold a trading position (long or short) in the securities and financial instruments discussed in this report.

BofA Securities, through business units other than BofA Global Research, may have issued and may in the future issue trading ideas or recommendations that are inconsistent with, and reach different conclusions from, the information presented herein. Such ideas or recommendations may reflect different time frames, assumptions, views and analytical methods of the persons who prepared them, and BofA Securities is under no obligation to ensure that such other trading ideas or recommendations are brought to the attention of any recipient of this information. In the event that the recipient received this information pursuant to a contract between the recipient and BofAS for the provision of research services for a separate fee, and in connection therewith BofAS may be deemed to be acting as an investment adviser, such status relates, if at all, solely to the person with whom BofAS has contracted directly and does not extend beyond the delivery of this report (unless otherwise agreed specifically in writing by BofAS). If such recipient uses the services of BofAS in connection with the sale or purchase of a security referred to herein, BofAS may act as principal for its own account or as agent for another person. BofAS is and continues to act solely as a broker-dealer in connection with the execution of any transactions, including transactions in any securities referred to herein.

BofA ESGMeter Methodology:

ESGMeter is a proprietary metric based on quantitative analysis and fundamental analyst inputs that reflects our assessment of a company's Environmental, Social and Governance-related attributes. The ESGMeter is intended to indicate a company's likelihood of experiencing stronger financial stability (higher return on equity and lower earnings and price volatility) over the next three years relative to peer group. There are three ESGMeter levels - Low, Medium, and High - which indicate whether a company has attributes most likely to translate into superior financial stability (in the case of a High level) or weaker financial stability (in the case of a Low level) over the next three years relative to its peer group. A Medium level suggests that a company exhibits ESG characteristics that are likely associated with financial stability results in line with its peer group over the next three years. Full details of our methodology, financial stability definition and disclaimers are available at BofA ESGMeter methodology. ESGMeter is not indicative of a company's future stock price performance and is not an investment recommendation or rating. ESGMeter is independent of the BofA Global Research fundamental equity analyst's investment rating, volatility risk rating, income rating or price objective for that company.

Copyright and General Information:

Copyright 2023 Bank of America Corporation. All rights reserved. iQdatabase® is a registered service mark of Bank of America Corporation. This information is prepared for the use of BofA Securities clients and may not be redistributed, retransmitted or disclosed, in whole or in part, or in any form or manner, without the express written consent of BofA Securities. BofA Global Research information is distributed simultaneously to internal and client websites and other portals by BofA Securities and is not publicly-available material. Any unauthorized use or disclosure is prohibited. Receipt and review of this information constitutes your agreement not to redistribute, retransmit, or disclose to others the contents, opinions, conclusion, or information contained herein (including any investment recommendations, estimates or price targets) without first obtaining express permission from an authorized officer of BofA Securities. Materials prepared by BofA Global Research personnel are based on public information. Facts and views presented in this material have not been reviewed by, and may not reflect information known to, professionals in other business areas of BofA Securities, including investment banking personnel. BofA Securities has established information barriers between BofA Global Research and certain business groups. As a result, BofA Securities does not disclose certain client relationships with, or compensation received from, such issuers. To the extent this material discusses any legal proceeding or issues, it has not been prepared as nor is it intended to express any legal conclusion, opinion or advice. Investors should consult their own legal advisers as to issues of law relating to the subject matter of this material. BofA Global Research personnel's knowledge of legal proceedings in which any BofA Securities entity and/or its directors, officers and employees may be plaintiffs, defendants, co-defendants or co-plaintiffs with or involving issuers mentioned in this material is based on public inform

This information has been prepared independently of any issuer of securities mentioned herein and not in connection with any proposed offering of securities or as agent of any issuer of any securities. None of BofAS any of its affiliates or their research analysts has any authority whatsoever to make any representation or warranty on behalf of the issuer(s). BofA Global Research policy prohibits research personnel from disclosing a recommendation, investment rating, or investment thesis for review by an issuer prior to the publication of a research report containing such rating, recommendation or investment thesis.

Any information relating to the tax status of financial instruments discussed herein is not intended to provide tax advice or to be used by anyone to provide tax advice. Investors are urged to seek tax advice based on their particular circumstances from an independent tax professional.

The information herein (other than disclosure information relating to BofA Securities and its affiliates) was obtained from various sources and we do not guarantee its accuracy. This information may contain links to third-party websites. BofA Securities is not responsible for the content of any third-party website or any linked content contained in a third-party website. Content contained on such third-party websites is not part of this information and is not incorporated by reference. The inclusion of a link does not imply any endorsement by or any affiliation with BofA Securities. Access to any third-party website is at your own risk, and you should always review the terms and privacy policies at third-party websites before submitting any personal information to them. BofA Securities is not responsible for such terms and privacy policies and expressly disclaims any liability for them.

All opinions, projections and estimates constitute the judgment of the author as of the date of publication and are subject to change without notice. Prices also are subject to change without notice. BofA Securities is under no obligation to update this information and BofA Securities ability to publish information on the subject issuer(s) in the future is subject to applicable quiet periods. You should therefore assume that BofA Securities will not update any fact, circumstance or opinion contained herein.

Subject to the quiet period applicable under laws of the various jurisdictions in which we distribute research reports and other legal and BofA Securities policy-related restrictions on the publication of research reports, fundamental equity reports are produced on a regular basis as necessary to keep the investment recommendation current.

Certain outstanding reports or investment opinions relating to securities, financial instruments and/or issuers may no longer be current. Always refer to the most recent research report relating to an issuer prior to making an investment decision.

In some cases, an issuer may be classified as Restricted or may be Under Review or Extended Review. In each case, investors should consider any investment opinion relating to such issuer (or its security and/or financial instruments) to be suspended or withdrawn and should not rely on the analyses and investment opinion(s) pertaining to such issuer (or its securities and/or financial instruments) nor should the analyses or opinion(s) be considered a solicitation of any kind. Sales persons and financial advisors affiliated with BofAS or any of its affiliates may not solicit purchases of securities or financial instruments that are Restricted or Under Review and may only solicit securities under Extended Review in accordance with firm policies.

Neither BofA Securities nor any officer or employee of BofA Securities accepts any liability whatsoever for any direct, indirect or consequential damages or losses arising from any use of this information.

