

Anthony Zentefis Rambler Investment Fund

24th April 2024

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Investment Thesis

abbvie

Recent M&A

immun•gen \$10.1B

Leader in Pharmaceutical Market Segments

1st in Immunology, Aesthetics, Gastroenterology

2nd in Neuropsychiatry

Growing Product Portfolio & Strong Dividend

Upcoming Pipeline (Phase 2 & 3)

3.77% Dividend Yield

Company Overview



Industry Overvie

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Financial Analysis

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Buy AbbVie Shares Target Price: \$219.64 Current Price: \$162.82

Upside: 35%

Company Overview

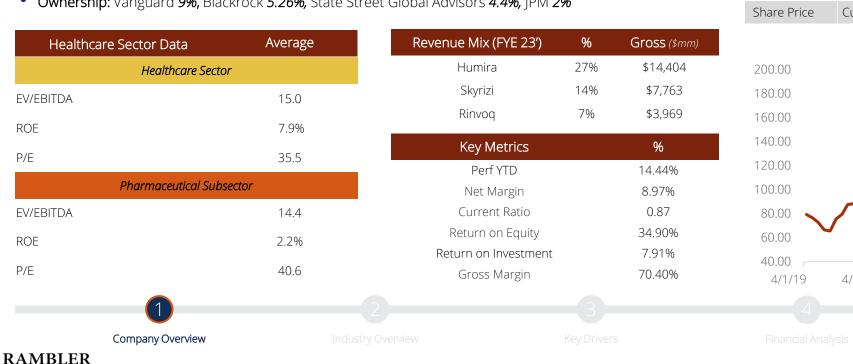


Company Overview

Company Highlights

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- History: IPO: 2013, CEO: Richard A. Gonzalez, HQ: North Chicago, Illinois, # of Employees: 50,000
- Strengths: Diverse pharmaceuticals and strong manufacturing capabilities with state-of-art facilities •
- Strategy: "Create an innovation-driven, patient-focused specialty biopharmaceutical company capable of achieving sustainable top-tier performance through outstanding execution and a consistent stream of innovative new medicines"
- **Opportunities:** Strategic M&A promoting growth, Covid-19 pandemic triggered improved antiviral understanding, growing pharmaceutical market in emerging economies
- Acquisitions: Acquired Allergan \$63B, Syndesi \$1B, Immunogen \$10.1B, Cerevel \$8.7B all in the past 5 years
- Ownership: Vanguard 9%, Blackrock 5.26%, State Street Global Advisors 4.4%, JPM 2%



Valuation & Share Performance

Key Valuation Statistics	5		
Market Cap	\$303.3 B	EBITDA (FYE 23')	\$25.3 B
P/E (TTM)	61.74	Dividend Yield	3.77%
EV/EBITDA	13.15	Debt / EQ	5.04
Revenue (FYE 23')	\$54.3 B	EPS (TTM)	2.72

hare Price	Current: \$	5162.82	52 Week Pric	e Change: +1	2.67%
	A	bbVie P	rice Histo	ory	
00.00					
80.00					7
60.00			۸.	$\nabla \nabla$	
40.00				\vee \checkmark \vee	\sim
20.00			لم		
00.00	~		•		
80.00	\sim	V			
60.00					
40.00 4/1/19	4/1/20	4/1/21	4/1/22	4/1/23	4/1/24

Business Description

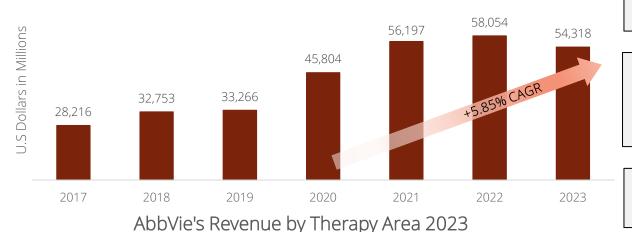
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AbbVie Business Model Overview

Company Overview

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AbbVie's Revenue 2017-2023

Eve Care 2.4 Aesthetics 5.20 Oncology 5.9 Other Key Products 6.8 Neuroscience 7.7 Immunology 26.1 0.0 5.0 10.0 15.0 20.0 25.0 **U.S Dollars in Billions** Source: Refinitiv

R&D: AbbVie's business model is centered around **research and development**, where they invest heavily in discovering and developing new medications. This involves conducting **extensive clinical trials** to ensure the safety and efficacy of its products

Collaboration and Commercialization: AbbVie collaborates with healthcare providers, regulators, and payers to secure access for patients. AbbVie works closely with patient advocacy groups to better understand patients' needs and improve their healthcare experience. AbbVie also utilizes **direct-to-consumer marketing strategies** to raise awareness of their products

Sales of Pharmaceutical Products: AbbVie's primary source of revenue comes from the sale of pharmaceutical products. By offering a wide rang of prescription drugs across various therapeutic areas (i.e. Humira, Skyrizi, Rinvoq, and Botox)

I.P Licensing: AbbVie licenses its I.P to other pharmaceutical companies, allowing them to manufacture and sell generic versions of their drugs once the patents expire. AbbVie earns licensing fees and royalties from these agreements

Specialty Pharmaceuticals: AbbVie's focus on niche markets and providing high-value medications allows them to command premium pricing within the industry. These products often target patients with chronic or complex health conditions

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AbbVie's Strategic Direction

Growing Portfolio with a Continued Investment in R&D

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Big Risks Big Payoff: Takes an average of **10 years** and roughly **\$3B** to bring a new medicine to market. AbbVie has a commitment to finding disease-modifying therapies, especially in neurological conditions like Alzheimer's and Parkinson's. Revenue from on-market medicines support ongoing R&D

8682 8290 7919 7571 7029 6518 6435 **JSD** in Millions 5830 FY Dec-20 FY Dec-22 FY Dec-23 FY Dec-24E FY Dec-25E FY Dec-26E FY Dec-27E FY Dec-21 Source: Refinitiv (Expected R&D Expense) **Company Overview**

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Humira Patent Expiration: Forecasted peak sales for Rinvoq and Skyrizi plan to surpass Humira by FY Dec-24. Strong pipeline with over **40** candidates, potentially offers a significant revenue boost with losing Humira exclusivity



R&D EXPENSE

Industry Overview



Porter's Five Forces

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lodel Overview		5 v	 ways AbbVie is working to deliver medicines in half the time #1.) Rapid Drug Supply: AbbVie is employing cutting-edge technology to accelerate the preclinical development of drugs, enabling faster delivery of 		
Collaboration with Suppliers: AbbVie collaborates with suppliers to prevent disruptions in	High Cost Threat of N Pres new	Research & Development Substantial investment in totaling \$7B in 2023, ents a significant barrier to entrants in the maceutical market	 #2.) Expedited Proof of Concept: Through flexible resourcing and effective trail design, AbbVie is reaching proof of concept in oncology studies one year faster, enabling quicker decisions on whether to progress with drug candidates 		
their supply chain. In 2023, AbbVie collaborated with over 62,000 suppliers globally, across nearly 300 industries Supplier Power	Competitive Rivalry	Buyer Power Customer Satisfaction: AbbVie prioritizes customer demand and preferences,	 #3.) Optimized Site Selection: Utilizing advanced analytics and machine learning, AbbVie is significantly increasing productivity and speeding up the trail process by 50% #4.) Efficient Trial Start-Up: AbbVie's Study Start-Up provides dedicated support and expertise to clinical trial sites globally, accelerating trial enrollment and saving valuable time in the development process 		
Brand Loyalty: AbbVie's flagship products, Skyrizi and Rinvoq, contribute to brand loyalty and market dominance based on their exclusive patents	Threat of Substitution	efficiently supplying medications globally while adhering to strict government regulations	#5.) Streamlined Regulatory Submissions: Leveraging A.I. and automated tools, AbbVie shortens submission timelines while maintaining high-quality regulatory dossiers, ensuring efficient review processes by global regulatory agencies		
	2 Industry Overview				



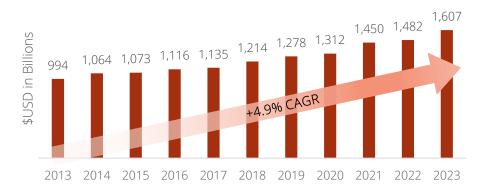
Pharmaceutical Industry Trends

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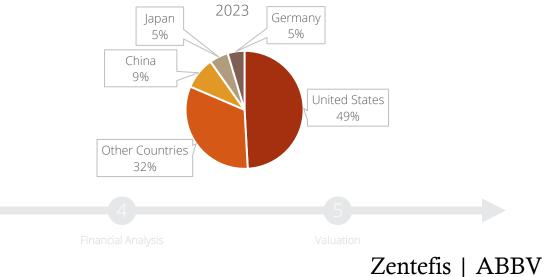
Industry Overview			
Industry Revenue Breakdown by Major Segment (20	16)		
Price Change %		5.1%	
U.S Pharmaceuticals & Medical Research Index 1 Yea	ar Return	6.92%	
Key Industry Averages			
Gross Margin %		37.3%	
Net Income Change % (YoY)		-59.3%	
EV/EBITDA		15.4x	
Trailing P/E LTM		39.5x	
Mean Forward P/E		17.5x	
Debt/Equity		94%	
North America Industry Revenue			
Total revenues LTM		\$678B	
Projected Pharmaceutical Revenue 2027E		\$992B	
Key Insights (U.S)			
Total Nominal Spending (2022)		\$603B	
Pharmaceutical Manufacturing Gross Output		\$217B	
Source: Refinitiv	2		-3-
	Industry Overview		

Industry Revenue and Geographical Market Share

Pharmaceutical Market Worldwide Revenue (2013-2023)



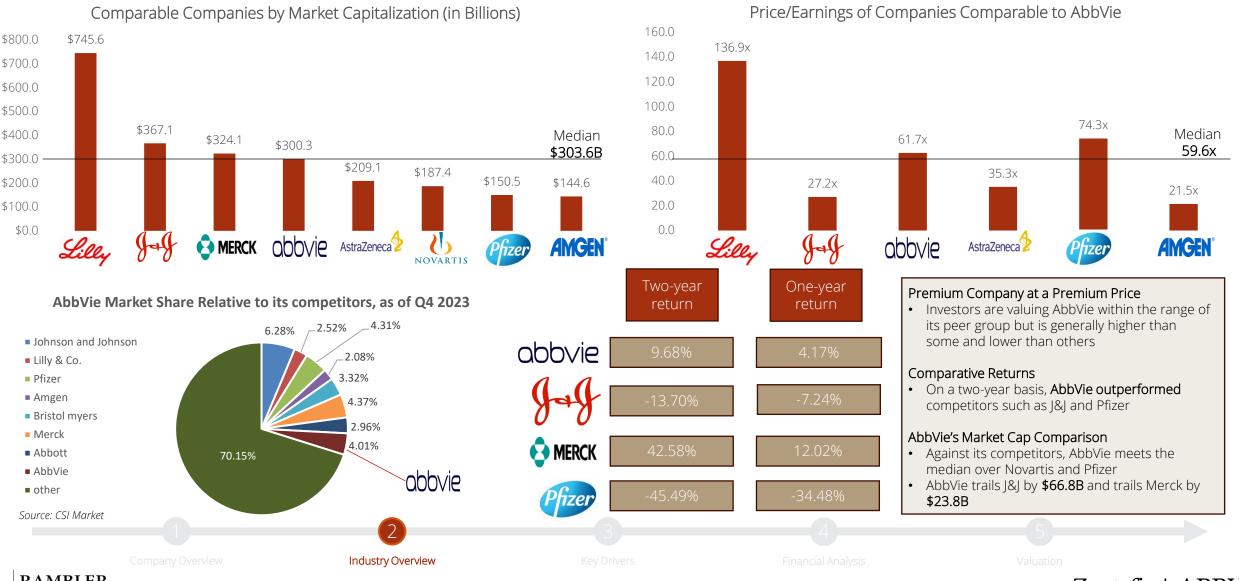
Market Share of Leading Pharmaceutical Markets Worldwide





AbbVie Market Positioning

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Investment Drivers



Strategic Acquisitions

Driving AbbVie's Growth in Oncology and Neuroscience

AbbVie's Acquisition of Immunogen & Cerevel

ImmunoGen Acquisition: AbbVie's \$10.1B proposed acquisition of ImmunoGen aims to expedite its entry into the ovarian cancer commercial market. The acquisition adds the flagship drug ELAHERE (Ovarian Cancer) to its portfolio. ImmunoGen's pipeline complements AbbVie's existing oncology portfolio with promising therapies for tumors and blood cancers

AbbVie's CEO highlights the potential to redefine cancer care through this acquisition and anticipates long-term revenue growth with both companies pipelines

Immun•gen...

Cerevel Acquisiton: The **\$8.7B** acquisition of Cerevel Therapeutics adds their neuroscience pipeline to AbbVie's portfolio, focusing on psychiatric and neurological disorders. Cerevel's Emraclidine (Schizophrenia) is highlighted as a potentially transformative treatment and is expected to grow AbbVie's neuroscience revenue stream

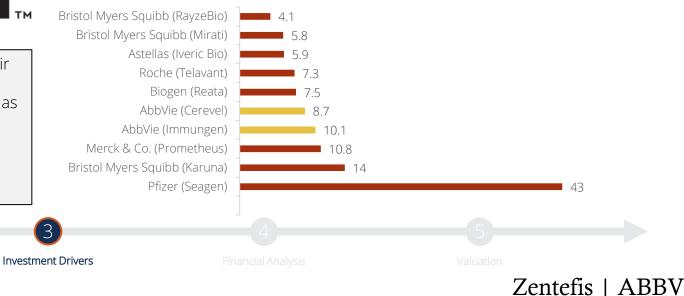
The acquisition is expected to increase AbbVie's EPS starting in 2030

Industry Competitor Trends

Industry M&A: Despite challenges like increasing interest rates and the FTC, Biopharma M&A activity remained resilient in 2023 totaling \$1.17 trillion in spending. With a challenging funding environment and limited IPO opportunities, M&A became the primary exit strategy for many biotech firms with late-stage assets

The trend saw a shift in acquires aiming to capitalize on **de-risked assets** in phase 3 or ready for market launch, ensuring a quicker path to revenue generation. Experts anticipate further M&A activity in the future

Largest M&A deals of Biopharma Companies by Value 2023 (in billions USD)



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Source: WSI

AbbVie: Leading the Way in Attractive Market Segments

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Immunology ^{1st}	Oncology ^{9th}	Aesthetics & _{1st} Gastroenterology	Neuropsychiatry ^{2nd}	Other
\$102B Market	\$205B Market	\$127B Market	\$160B Market	Significant Unmet Need
 Leads market with position in Humira Lost patent in 2023 but still leads in sales 	 \$10.1B ImmunoGen acquisition Aims to expedite entry into ovarian cancer commercial market 	 \$63B Allergan acquisition (2020) Deal was done to diversify AbbVie's portfolio from Humira 	 Saw the largest YoY% segment growth 18.2% growth 	 Leadership position in Women's Health market AbbVie's pipeline for phase 2 includes rollout of 2
Visadotana) visadotana Visadotana / Visadotana CODVie	 ImmunoGen's pipeline compliments AbbVie's existing 		(cariprazine) capsules	includes rollout of 3 eyecare drugs
 Market is growing at a CAGR of 12% and is expected to reach \$263B by 2032 	 oncology portfolio Market is expected to reach \$305B by 2027 	 On track for Aesthetics sales \$9B by 2029 \$5.2B FY Dec-23 	 Market expected to grow at a CAGR of 4.2% and reach \$200B by 2026 	An endy A series A serie
Source: AbbVie; Deloitte		3		
Company Overview		Investment Drivers		
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Product Portfolio & Strong Dividend Growth

Dividend Per Share



AbbVie's Commitment to Shareholders: AbbVie has consistently increased the annual dividend since its IPO in 2013. Dividends per share is expected to grow 4.35% in 2024 and 4.50% in 2025

Comparable Dividends: AbbVie is 2nd in Dividends paid in the industry paying \$5.92 per share. Amgen (AMGN) is ahead of AbbVie paying \$8.64 a share

Source: Refinitiv (Dividend Estimates)

AbbVie's Growing Product Portfolio

Alternatives for Humira: Drugs like Skyrizi and Rinvoq have emerged as promising substitutes, offering effective treatments for conditions similar to those targeted by Humira

These drugs not only diversify AbbVie's revenue streams but also underscore its agility in adapting to changing market dynamics

Recent FDA Approvals: Recent FDA approval for AbbVie's new gastrointestinal drug (Linzess) will cater to a sizable patient population with high unmet needs

Being the only type of drug planning to hit the market, Linzess has a unique position, providing AbbVie with a competitive advantage and potential for substantial market penetration

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Investment Drivers

Financial Analysis



Historical Share Price Performance

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Key Events & Share Price Drivers



[•] Apr 2019 – FDA approves AbbVie's oral treatment endometriosis, Orilissa

- Jun 2019 AbbVie acquires Allergan for \$63 Billion
- Jul 2019 AbbVie acquires Mavupharma, boosting its cancer drug pipeline
- Mar 2020 Israeli govt. forces AbbVie to license its patents for Kaletra, a fixed dose medication used for the treatment and prevention of HIV/AIDS
- Jun 2021 U.S Senate Finance Committee accuses AbbVie of shifting revenue to avoid U.S taxes
- Mar 2022 AbbVie acquires Syndesi Therapeutics for \$1B
- Jul 2022 AbbVie agrees to pay \$2.37B to settle U.S lawsuits against its Allergan unit over the marketing of opioid painkillers
- Nov 2023 AbbVie acquires ImmunoGen for \$10.1B, expanding its entry into the ovarian cancer treatment market
- Dec 2023 AbbVie acquires Cerevel Therapeutics for \$8.7B
- Feb 2024 Old CEO announces retirement; new CEO Robert A. Michael is appointed effective Jul. 1, 2024

Company Overvie

Investment Drivers

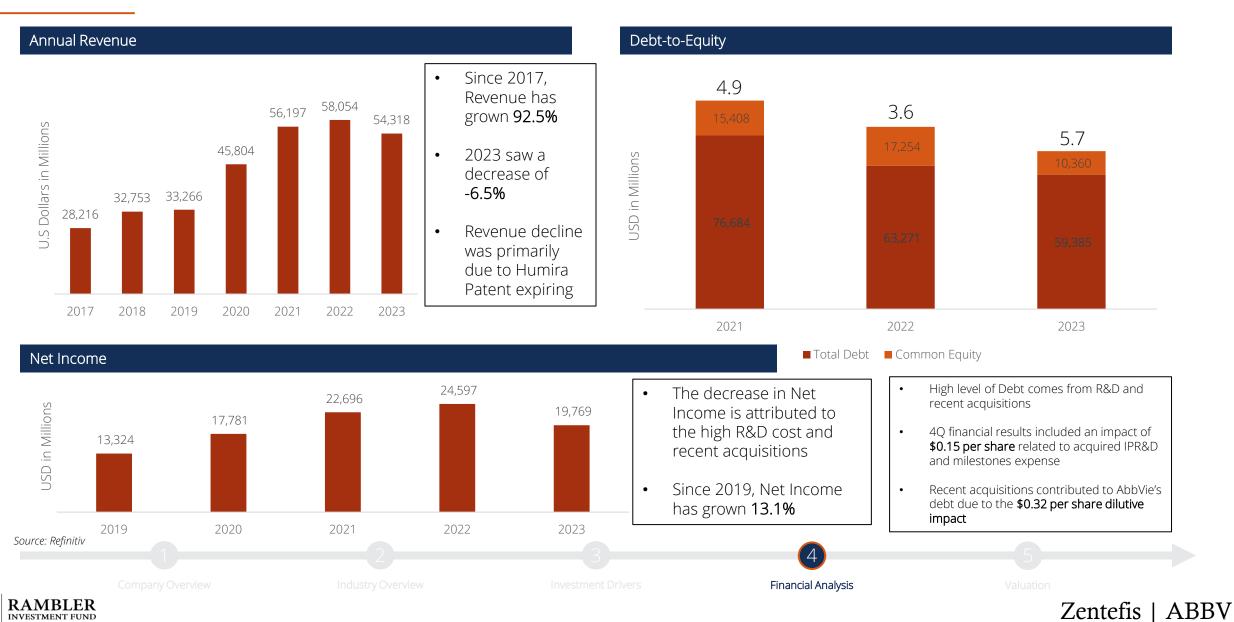
Financial Analysis

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Financial Analysis

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Revenue & Free Cash Flow

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Revenue Segme	ent Breako	down		
Currency: USD		2021	2022	2023
Immunology	25.28B	28.92B	26.14B	
YoY Growth %		14.13%	14.40%	-9.64%
Oncology	7.23B	6.58B	5.92B	
YoY Growth %	_	8.68%	-9.01%	-10.07%
Neuroscience	5.93B	6.53B	7.72B	
YoY Growth %	_	69.54%	10.14%	18.21%
Aesthetics	5.23B	5.33B	5.29B	
YoY Growth %	_	102.05%	1.91%	-0.73%
Other Products	5.02B	4.14B	3.04B	
YoY Growth %		-1.95%	-17.57%	-26.64%
Other Key Products	3.94B	3.85B	3.81B	
YoY Growth %		9.08%	-2.16%	-1.25%
Eye Care	3.57B	2.70B	2.42B	
YoY Growth %		63.32%	-24.28%	-10.59%
Total	56.20B	58.05B	54.32B	

• Immunology remains AbbVie's strongest revenue stream and even with the expiring Humira Patent the immunology segment only saw a -9.64% in growth

• The Neuroscience segment grew the most in 2023 mainly in part to recent Cerevel acquisition and established products such as Botox and Vraylar having substantial growth

Free Cash Flow 2017-2023

- 2023, AbbVie saw a -9.02% decline in Free Cash Flow from 2022
- Increasing demand for treatments related to neurological disorders and mental health conditions has attributed to AbbVie's Free Cash Flow growth
- AbbVie will continue to see sustained growth with their diversified portfolio of various drugs



Source: Refinitiv

nvestment Drive

Valuation



Comparable Analysis AbbVie meets the mean in ROE and Dividend Yield but exceeds in P/E and EV/EBITDA

Company Name (Ticker)	МКТ САР	P/E	P/Book	EV/EBITDA TTM	Dividend Yield	ROE %	Beta	Revenue 5Y AVG
(ABBV) abbvie	300.3B	61.7	27.6	13.15	3.77%	34.9%	0.57	10.6%
(LLY) Lilly	714.6	133.2	66.2	58.38	0.69%	48.9%	0.37	6.8%
(JNJ)	355.3	26.4	5.1	11.48	3.26%	18.5%	0.53	0.86%
(MRK) STATES (MERCK	318.4	894.5	8.4	25.55	2.57%	0.8%	0.41	7.2%
(AZN) AstraZeneca	213.7	36.1	5.4	12.04	2.24%	15.6%	0.53	15.7%
(NVS)	182.9	13.1	4.1	9.29	2.57%	16.5%	0.55	-2.5%
(PFE)	146.1	71.9	1.6	10.76	6.57%	2.3%	0.61	1.7%
(AMGN) AMCEN°	143.2B	21.4	22.9	11.27	3.48%	135.7%	0.60	3.4%
COMPARABLE MEAN	295.1B	126.6	17.6	19.02	3.31%	34.1%	0.52	5.4%
Source: Refinitiv		2	3		4		5	
Company Compan						Valu	ation Zen	tefis ABBV

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Discounted Cash Flow Model

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Ticker	ABBV	Ir	nplied Sha	re Price		\$219	9.64					
Date	4/15/2024	C	urrent Sha	re Price		\$162	2.82					
Year end 1	2/31/2024	Ir	nplied Gai	n / (Loss))	3	35%					
Assumptions												
Valuation Assumptions												
WACC		.15%										
TGR	C).80%	(Discount	rate - (U	FCF / Ter	minal Val	lue))/ (1 +	UFCF / T	erminal V	alue))		
Income Statement (12/31	FYE) 2018	2019	2020	2021	2022	2023	2024E	2025E	2026E	2027E	2028E	202
Revenue	32,800	33,300	45,800	56,200	58,100	54,300	55,556	57,920	62,064	66,051	70,295	74,5
% growth	16%	2%	38%	23%	3%	-7%	2%	4%	7%	6%	6%	.,.
EBIT	14,165	15,730	21,976	28,215	30,183	24,793	25,317	27,521	30,165	32,869	35,581	37,7
% of sales	43%	47%	48%	50%	52%	46%	46%	48%	49%	50%	51%	5
Cash Flow Items (12/31	FYE)	2015	2016	20	17	2018	2019	2020	2021	2022	2	2023
D&A		836	1,189			,765	2,017	6,471	8,521	8,467		,698
% of sales		4%	5%		5%	5%	6%	14%	15%	15%		16%
CapEx		532	479	5	29	638	552	798	787	695		777
% of sales		2%	2%	i 2	2%	2%	2%	2%	1%	1%		1%
Change in NWC		(1,309)	941	. 8	23 (4,	,255)	921	(2,157)	(133)	(1,569)	(4,3	13)
% of sales		(6%)	4%	i E	3% (.	13%)	3%	(5%)	(0%)	(3%)	((8%)
% of change in sales			35%	i 32	2% (!	93%)	184%	(17%)	(1%)	(83%)	1.	14%

WACC	
Market Cap	301,258
% of Equity	83.5%
Cost of Equity	7.879
Risk Free Rate	5.25%
Beta	0.5
Market Risk Premium	4.609
Debt	59,38
% of Debt	16.479
Cost of Debt	4.169
Tax Rate	15.709
Total	360,64
WACC	7.159

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2029E 74,546

37,743

51%

6%

Valuation

5

Discounted Cash Flow Model (2/2)

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	2019	2020	2021	2022	2023	2024E	2025E	2026E	2027E	2028E	2029E
Revenue	33,300	45,800	56,200	58,100	54,300	55,556	57,211	60,076	62,482	64,359	65,646
% growth	2%	38%	23%	3%	-7%	2%	3%	5%	4%	3%	2%
Conservative Case						2%	3%	5%	4%	3%	<mark>2%</mark>
EBIT	15,730	21,976	28,215	30,183	24,793	25,317	21,747	23,359	24,295	25,024	25,525
% of sales	47%	48%	50%	52%	46%	46%	38%	39%	39%	39%	39%
Conservative Case						46%	38%	39%	39%	39%	<mark>39%</mark>
Taxes						3,798	3,756	4,045	4,290	4,553	5,000
% of EBIT						15%	15%	16%	16%	17%	17%
EBIAT						21,519	17,991	19,314	20,005	20,471	20,525
D&A	2,017	6,471	8,521	8,467	8,698	5,243	5,399	5,670	5,897	6,074	6,195
% of sales	6%	14%	15%	15%	16%	9%	9%	9%	9%	9%	9%
СарЕх	552	798	787	695	777	953	982	1,031	1,072	1,104	1,126
% of sales	2%	2%	1%	1%	1%	2%	2%	2%	2%	2%	2%
Change in NWC	921	(2,157)	(133)	(1,569)	(4,313)	(1,538)	(1,584)	(1,663)	(1,730)	(1,782)	(1,818)
% of sales	3%	-5%	0%	-3%	-8%	-3%	-3%	-3%	-3%	-3%	-3%
Unlevered FCF						27,347	23,993	25,616	26,559	27,223	27,411
Present Value of FCF						26,683	22,067	21,987	21,275	20,351	19,124

Terminal Value	434,906
Present Value of Terminal Value	303,413
Enterprise Value	434,900
+ Cash	12,814
- Debt	59,385
Equity Value	388,329
Shares	1,768
	\$ 219.64
Share Price	



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Financial Analysis

Valuation

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Investment Risks

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Expired Humira Patent

The End of AbbVie's Monopoly: After two decades of dominating the market, AbbVie's patent on their flagship drug **Humira** has expired. Biosimilar versions of the original drug are expected to become available in the U.S this year

AbbVie's revenue heavily relies on Humira, with the drug accounting for more than half of its revenue in recent years

With the introduction of biosimilar versions of Humira, competition will increase, leading to a decline in sales for AbbVie



FDA Disapproval

Questionable Pipeline Success: AbbVie's future growth depends on the success of its pipeline drugs following the loss of exclusivity on Humira

If any of its key pipeline candidates fail to gain regulatory approval or face setbacks in clinical trials, it could impact the company's revenue prospects

Operational and Financial Risk

High Levels of Debt: AbbVie reported a deficit in its working capital in 2023, which could cause financial instability and make it difficult for the company to meet its short-term obligations

AbbVie already has a **high debt-to-equity ratio (5.04)** compared to its competitors, which has affected the leverage and cash flow ratios



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immun•gen \$10.1B

Leader in Pharmaceutical Market Segments

1st in Immunology, Aesthetics, Gastroenterology

2nd in Neuropsychiatry

Growing Product Portfolio & Strong Dividend

Upcoming Pipeline (Phase 2 & 3)

3.77% Dividend Yield

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Buy AbbVie Shares

Target Price: \$219.64

Current Price: \$162.82

Upside: 35%

