

Company Overview

Highlights

Medtronic Plc is a medical application and equipment company listed within the healthcare industry.

Medtronic is active in the healthcare sector through its four divisions:

- 1. Cardiac and vascular division,
- 2. Minimally invasive therapies division,
- 3. Restorative therapies division,
- 4. Diabetes division.

Management Team



Omar S. Ishrak

Chairman & CEO with eight years of company tenure. Has been the head of eight different companies. Previously, Ishrak held the position of president and CEO for Health Care Systems, Inc,.



Mark Ploof

Senior Vice President-Global Operations with three years of company tenure. Previously, Ploof held the position of Vice President at TenX Capital Management Inc,.

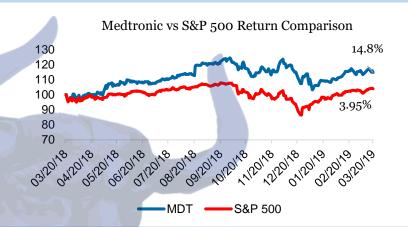


Karen L. Parkhill

Chief Financial Officer & Executive Vice President with three years of Tenure. Previously, Parkhill was the CFO-Commercial Banking Business at JPMorgan Chase & Co..



Share Price Performance



Significant Events

- 1. January 24, 2019, Medtronic offers to acquire EPIX Therapeutics. This acquisition would allow Medtronic to expand its Medtronic cardiac ablation portfolio.
- 2. November 5, 2018, Medtronic acquires Clearum GmbH from Jens Sieder. Clearum GmbH manufactures chemicals, fertilizers, and nitrogen compounds, plastics, and other synthetic fibers.
- 3. Despite the industry as a whole being at the mature stage in its life cycle, the industry has not slowed its growth in revenue. Medtronic itself pursues a strategy of innovation. This means that it is able to take advantage from being the first mover in emerging markets and introduce new products at regular intervals.

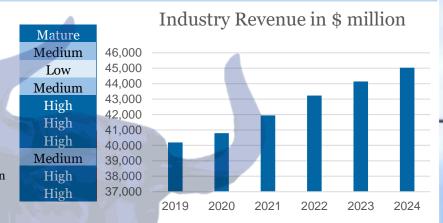
Industry & Macro Outlook



Medical Device Manufacturing Industrial Trends



Life Cycle Stage
Revenue Volatility
Capital Intensity
Industry Assistance
Concentration Level
Regulation Level
Technology Change
Barriers to Entry
Industry Globalization
Competition Level



Industry

The medical device manufacturing industry is essentially healthcare products. It is expected to slow down as a measure against GDP growth in USA. However, this growth rate has been consistent and the US economy has been ramping up in recent years. According to IBISWorld this industry is expected to experience an increased demand, resulting in new product development and rapid technological change. IBISWorld also expects greater access to healthcare for an expanding elderly population to contribute to an at-home healthcare trend. Due to growth constraints in established markets, medical device companies will likely aim to expand into lucrative developing markets

Key Success Metrics

Ability to attract human capital: The design and production of medical devices is highly technical, so operators with access to skilled staff will experience a competitive advantage. The importance of a skilled workforce is reflected in the industry's high average wage.

Development of latest technology: Companies must have the capacity and competency to develop or acquire new and innovative technology to maintain a competitive edge

Ability to globalize: The industry operates globally, so successful players must take advantage of the growing globalizing of this industry to reduce reliance on the domestic market and diversify the risk.

Having contacts within key markets: Access to key distributors and end users is essential to successful sales in the market. Thereby giving a consistent flow of revenue to maintain relevance.

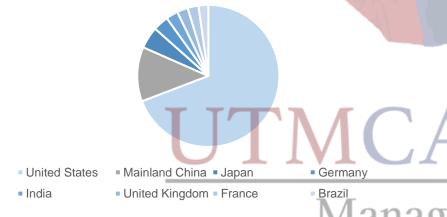
Investment Thesis

Exposure in United States and China

We've decided to pitch Medtronic due to its large exposure in the United States and its growing exposure in Mainland China.

- 53% of Medtronic's revenue has come from the United States and 9.5% of revenue has come from china.
- Statistically, China has the highest number of diabetics worldwide and Medtronic's highest growing division is its diabetes division with 11.1% growth year on year.

Revenue Exposure By Country





Cardiac And Vascular Division Strength



- Medtronic earns its highest percent of its revenue from the Cardiac and Vascular division.
- 37.9% of revenue coming from the cardiac and vascular division, 29.1% coming from the minimally invasive therapies division, 25.9% coming from the restorative therapies division, and 7.1% coming from the diabetes division.
- Cardiovascular disease accounts for nearly 836,546 deaths which is about 1 of every 3 deaths in the US. As stated, the cardiac and vascular division is the highest revenue gaining division in Medtronic and the US is the country that accounts for the most revenue for this company.

Company Breakdown and Growth Drivers



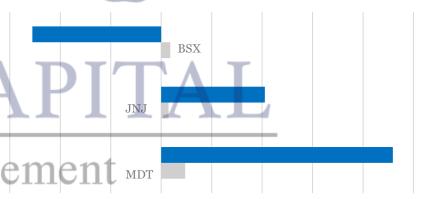
Breakdown

Medtronic holds a significant \$10,259 Mil. at cost Property, Plant, and Equipment (PPE) Assets, 66% of which are held in Equipment assets. Significant investments in PPE combined with Medtronic's \$2,328 Mil. research spending, only outpaced by the largest firm in the market segment Johnson & Johnson, show that Medtronic has the capability to further establish take-to-market research products – a major driver of growth in the biomedical / pharmaceutical industry.

Growth Drivers

- 1. Research Capacity: Medtronic holds over 4600 patents and the research capacity and direction to continue to develop unique products within its focus on growing areas of the healthcare industry (products related to obesity / old age).
- 2. Market Aligned Strategy: Medtronic is the thought leader in "value-based healthcare" a delivery model wherein providers are compensated based on patient health outcomes. This strategy aligns with the corporate / medical culture of China. Medtronic is also pioneering the Integrated Health Solution (IHS) strategy. IHS allows Medtronic to integrate itself into hospital infrastructure and may provide cross-hospital synergies as the program expands aligning with the trend of hospital digitization. HIS also provides access to majority public paper healthcare systems that are increasingly coming under pressure to reduce costs.
- **3. International Exposure**: Medtronic has significant relative and quickly growing exposure to China. China also represents the largest market of Diabetic patients, one of Medtronic's main product divisions.

Exposure and Growth in China



-60.00% -40.00% -20.00% 0.00% 20.00% 40.00% 60.00% 80.00% 100.00%

■YOY growth ■ Revenue exposure

Catalysts & Risks



Catalysts

Risks

1. Mergers and Acquisitions

Medtronic has offered to acquire both EPIX Therapeutics and Nutrino Health Ltd.. The acquisition of either or both companies would prove to be extremely beneficial for Medtronic.

2. Growth in the Diabetes division

Medtronic's highest growing division is their Diabetes division with a growth of 11.1% year on year. Their highest growing revenue by country is China, who is responsible for the highest amount of diabetic people in the world.

3. Legislation Changes

Policy changes to allow patenting products easier would be essential for a healthcare company such as Medtronic which thrives on product innovation.

4. Growth In China

China is the largest economy in the world and by expanding in to this untouched market, Medtronic has the opportunity to immensely increase its revenue.

Medtronic grew by 91.8% year on year

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High in	CSR				
Likelihood of Occurring		ER			
d of O				LL	
lihood			RR	MCA	
Like					
Lc)W		Impact		High

- MCA = Maintaining Competitive Advantage
- LL = Legal Liability
- CSR = Corporate Social Responsibility
- RR = Regulatory Risk

ER = Economic Risk

Valuation Summary



Discounted Cash Flow Valuation

Exit Multiple Method

Entampiae Value							
Enterprise Value	N 17/4						
Present Value of Projected FCF	\$53,043.5						
	100 M						
Terminal Value	71						
Terminal Year EBITDA	\$8,691.4						
Exit Multiple	19.9x						
Terminal Value	\$172,610.7						
Discount Factor	0.64						
Present Value of Terminal Value	\$109,698.7						
% of Enterprise Value	67%						
Enterprise Value	\$162,742.2						

Implied Equity Value							
Enterprise Value	\$162,742.2						
Less: Total Debt Less: Preferred Securities Less: Non-Controlling Interest Plus: Cash & Equivalents	\$25,757.0 \$0.0 \$0.0 \$11,227.0						
Implied Equity Value Shares Outstanding	\$148,212.2 1354.2						
Implied Share Price	\$109.44						

Perpetuity Growth Method

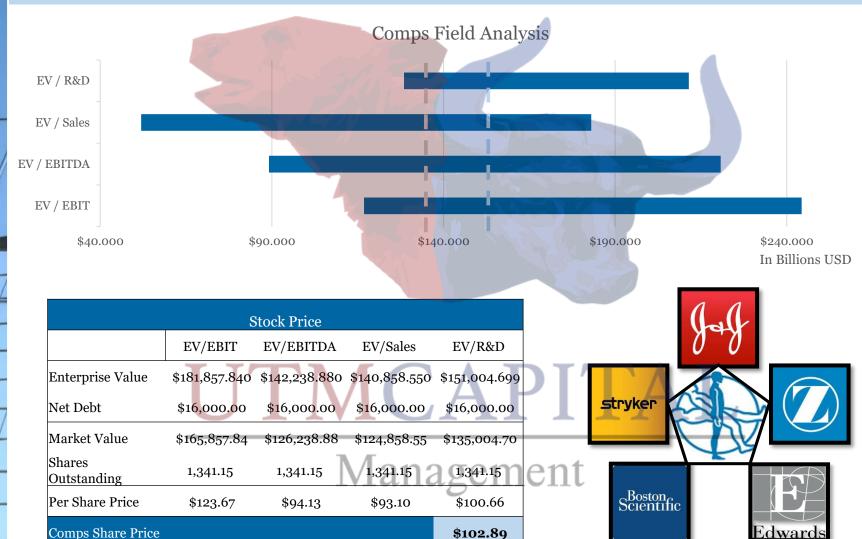
Enterprise Value	
Present Value of Projected FCF	\$53,043.5
Terminal Value	
Terminal Year FCF	\$8,350.3
Perpetual FCF Growth	
Rate	2.0%
Terminal Value	\$178,044.0
Discount Factor	0.64
Present Value of Terminal Value	\$113,151.8
% of Enterprise Value	68%
Enterprise Value	\$166,195.2

	Implied Equity Value	
	Enterprise Value	\$166,195.2
1	Less: Total Debt Less: Preferred Securities	\$25,757.0 \$0.0
_	Less: Non-Controlling Interest	\$0.0
	Plus: Cash & Equivalents	\$11,227.0
C	Implied Equity Value	\$151,665.2
	Shares Outstanding	1354.2
	Implied Share Price	\$111.99

Valuation Summary Continued



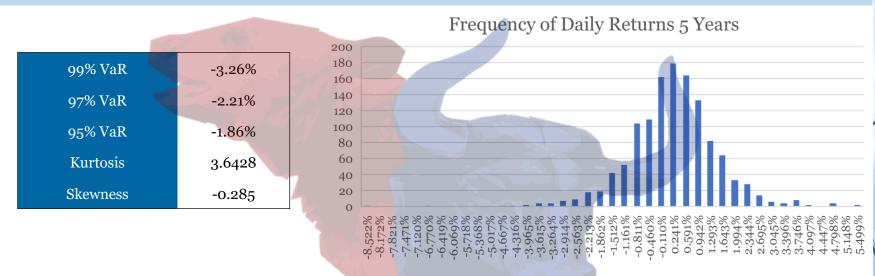
Comparable Companies Valuation



Valuation Summary Continued



Sensitivity Tables and VaR



	Implied Share Price									
	Long Term FCF Growth Rate									
	ı	1.5%	1.8%	2.0%	2.3%	2.5%				
	8.7%	\$73.98	\$75.71	\$77.56	\$79.56	\$81.71				
Š	7.7%	\$86.56	\$89.05	\$91.77	\$94.73	\$97.98				
WACC	6.7%	\$103.94	\$107.77	\$111.99	\$116.70	\$121.97				
	5.7%	\$129.59	\$135.93	\$143.13	\$151.37	\$160.91				
	4.7%	\$171.26	\$183.18	\$197.33	\$214.37	\$235.30				

Implied Share Price											
		Exit Multiple									
DI	17.9x 18.9x 19.9x 20.9x 21.9										
8.7%	\$90.09	\$93.67	\$97.25	\$100.84	\$104.42						
ن 7.7%	\$95.49	\$99.31	\$103.14	\$106.96	\$110.78						
7.7% MACC 6.7%	\$101.29	\$105.37	\$109.44	\$113.52	\$117.60						
5.7%	\$107.50	\$111.86	\$116.22	\$120.57	\$124.93						
4.7%	\$114.18	\$118.84	\$123.49	\$128.15	\$132.81						



Medtronic PLC

Recommendation: Buy

Target Price: \$108.11

Management

Exit Multiple Method	\$109.44
Terminal Growth Method	\$111.99
Company Comparable	\$102.89
Implied Price	\$108.11
Current Share Price	\$90.39
Percent Return	19.60%

Appendix A



Discounted Cash Flow Valuation

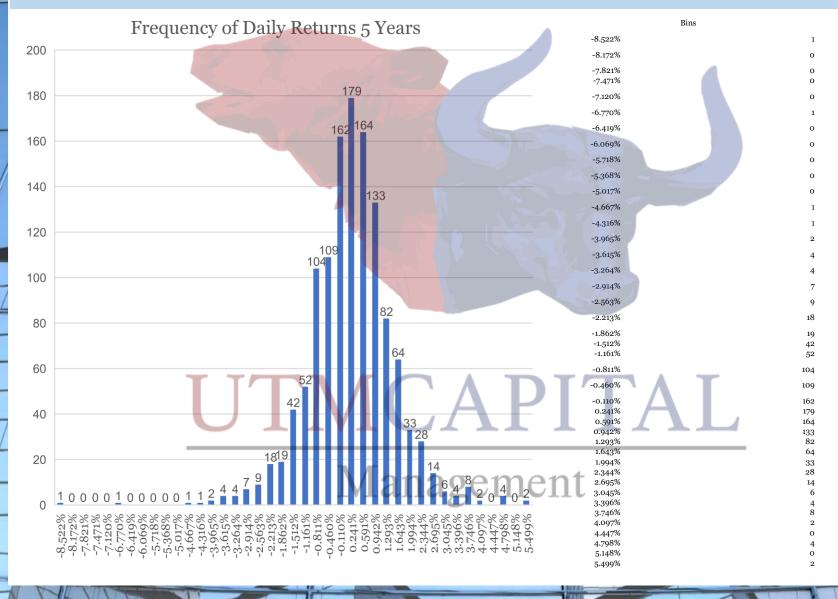
	L												
	Medtronic												
	Discounted Cash Flow Analysis												
	(Millions of Dollars)			Historical						Projected			
	Calculation of FCFF Units	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
	Operating Scenario 1Base												
	Revenue	\$17,005	\$20,261	\$28,833	\$29,710	\$29,953	\$31,001	\$32,009	\$32,969	\$33,876	\$34,723	\$35,504	\$36,214
	% Growth	2.5%	19.1%	42.3%	3.0%	0.8%	3.5%	3.3%	3.0%	2.8%	2.5%	2.3%	2.0%
	Cost of Goods Sold (Excl. D&A)	3,754.0	5,626.0	8,143.0	8,317.0	8,166.0	8,680.4	8,962.5	9,231.4	9,485.2	9,722.4	9,941.1	10,139.9
	Gross Profit	13,251.0	14,635.0	20,690.0	21,393.0	21,787.0	22,321.0	23,046.4	23,737.8	24,390.6	25,000.4	25,562.9	26,074.1
1	% Margin	77.9%	72.2%	71.8%	72.0%	72.7%	72.0%	72.0%	72.0%	72.0%	72.0%	72.0%	72.0%
	Selling, General & Administrative and Other	7,711.0	8,574.0	11,757.0	11,904.0	12,190.0	14,880.7	15,364.3	15,825.2	16,260.4	16,666.9	17,041.9	17,382.7
	EDWD 4			0	0.		A	- (0-		0	0	0	0.6
	EBITDA	5,540	6,061	8,933	9,489	9,597	7,440	7,682	7,913	8,130	8,333	8,521	8,691
	% Margin	32.6%	29.9%	31.0%	31.9%	32.0%	24.0%	24.0%	24.0%	24.0%	24.0%	24.0%	24.0%
-	Depreciation & Amortization	850.0	1,306.0	2,820.0	2,917.0	2,644.0	2,480.1	2,560.7	2,637.5	2,710.1	2,777.8	2,840.3	2,897.1
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	EBIT	4,690	4,755	6,113	6,572	6,953	4,960	5,121	5,275	5,420	5,556	5,681	5,794
1	% Margin	27.6%	23.5%	21.2%	22.1%	23.2%	16.0%	16.0%	16.0%	16.0%	16.0%	16.0%	16.0%
1	Income Taxes	811.4	1,107.9	1,124.8	828.1	3,163.6	1,041.6	1,075.5	1,107.8	1,138.2	1,166.7	1,192.9	1,216.8
1	EBIAT	3,879	3,647	4,988	5,744	3,789	3,919	4,046	4,167	4,282	4,389	4,488	4,577
	Free Cash Flow Adjustments:	0											. 0.
_	Plus: Depreciation & Amortization	850.0	1,306.0	2,820.0	2,917.0	2,644.0	2,480.1	2,560.7	2,637.5	2,710.1	2,777.8	2,840.3	2,897.1
	Less: Capital Expenditures Less: Increase in NWC	(396.0)	(571.0)	(1,046.0)	(1,254.0)	(1,068.0)	(1,085)	(1,120) (86)	(1,154) (82)	(1,186)	(1,215)	(1,243)	(1,267)
	Less: Increase in NWC	- 1			- A		10,127	(80)	(82)	(77)	(71)	(65)	(392)
	Free Cash Flow to Firm		\ /		/ 1		\$17,611.2	\$7,640.7	\$7,876.9	\$8,100.8	\$8,310.7	\$8,505.3	\$8,350.3
	Weighted Average Cost of Capital	6.69%	VI		, /		Ψ1/,011.	Ψ/,σ 4 σ./	Ψ/,0/0.9	φο,20010	ψο, 31 00,	Ψο,σοσ.σ	ψο,330.3
1	Discount Period	3.3970	AT		7		1.0	2.0	3.0	4.0	5.0	6.0	7.0
1	Discount Factor						0.94	0.88	0.82	0.77	0.72	0.68	0.64
1	Present Value of FCFFs						\$16,506.9	\$6,712.5	\$6,486.1	\$6,252.2	\$6,012.0	\$5,767.0	\$5,306.8
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Management

Appendix B



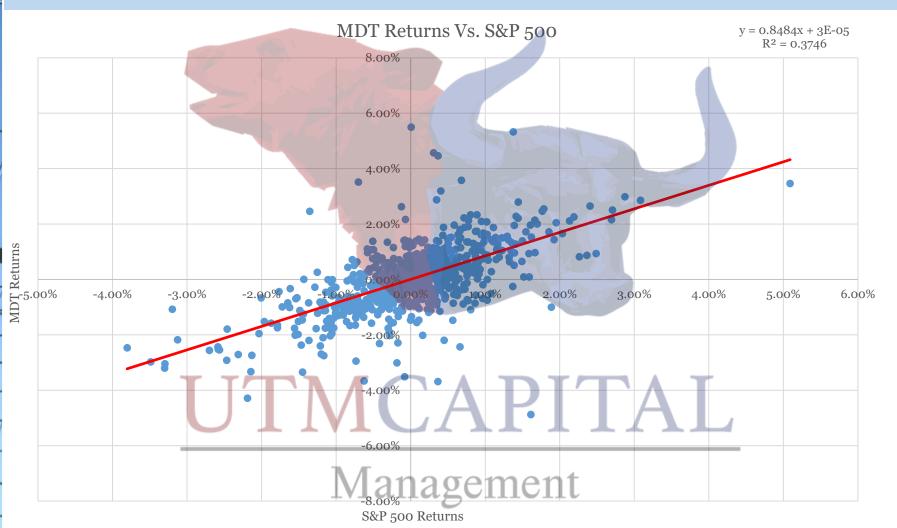
Value at Risk



Appendix C



Beta Calculation



Appendix D



WACC Calculation

	All and the second
3 year Beta Daily	0.848381417
MDT Variance	0.000148254
MDT STD DEV	0.01217595
	1
Market Risk Premium	6.60%
Risk Free Rate	2.60%
Cost of Equity MDT	8.20%
Cost of Debt	2.92%

Weight of Debt	28.65%
Weight Applied to C.O.D.	0.84%
Weight of Equity	71.35%
Weight applied to C.O.E	5.85%
WACC	6.69%

UTMCAPITAL

Management