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Bank of America Merrill Lynch

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Stock Data

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Price	EUR66.22
Price Objective	EUR67.00
Date Established	30-Nov-2009
Investment Opinion	B-3-8
Volatility Risk	MEDIUM
52-Week Range	EUR56.26-EUR75.04
Mrkt Val / Shares Out (mn)	EUR14,395 / 217.4
Average Daily Volume	387,976
BofAML Ticker / Exchange	MKGAF / GER
Bloomberg / Reuters	MRK GR / MRCG.DE
ROE (2009E)	10.4%
Net Dbt to Eqty (Dec-2008A)	5.0%
Est. 5-Yr EPS / DPS Growth	5.7% / 4.4%
Free Float	29.7%

Key Changes

(EUR)	Previous	Current
Inv. Opinion	B-2-7	B-3-8
Inv. Rating	NEUTRAL	UNDERPERFORM

Lacking catalysts and risk to Erbitux

We downgrade Merck to Underperform as we see limited pipeline catalysts through early 2010 and we continue to see risks to Erbitux (cancer) forecasts. Although shares underperformed the sector by c13% through 2009, driven by a raft of negative newsflow (pharma margin downgrades, rejection of Erbitux in lung cancer and a likely delay to cladribine in the US), this was partially offset by the continued improvement in Liquid Crystals (LC) profitability. With an improvement in LC profitability now reflected in consensus forecasts, we expect pharma challenges to come to the fore.

Downgrade to Underperform

Still see risks to longer term Erbitux forecasts

We continue to remain cautious on longer-term Erbitux forecasts (2014E sales of Eur960m vs cons. of cEur1.3bn). Specifically, we continue to believe Amgen's Vectibix may act as a headwind to Erbitux growth (following possible launch in early 2011), given its efficacy data is broadly comparable and it has the advantage of a lower dosing frequency and better infusion site reaction profile.

Cladribine updates not viewed as a catalyst

Although we have already removed US cladribine (multiple sclerosis) sales, we continue to believe next newsflow on cladribine represents asymmetric downside risk. Specifically, potential confirmation that the recent "refuse to file letter" is not just related to technical issues which can be resolved quickly (as some in the market are still hoping) could see further share price downside, in our opinion. Conversely, we see limited share price upside should Merck be able to launch cladribine in the US in 2010, given we remain cautious on: 1) Potential launch costs as we believe Pfizer are unlikely to co-promote and; 2) Poor patent protection.

Estimates (Dec)

(EUR)	2007A	2008A	2009E	2010E	2011E
EPS (Adjusted Diluted)	5.21	5.73	4.63	5.35	6.19
EPS Change (YoY)	35.5%	9.9%	-19.1%	15.5%	15.7%
Dividend / Share	3.20	1.50	1.02	1.12	1.38
Valuation (Dec)					
	2007A	2008A	2009E	2010E	2011E
5.15					
P/E	12.7x	11.6x	14.3x	12.4x	10.7x
P/E Dividend Yield	12.7x 4.83%	11.6x 2.27%	14.3x 1.55%	12.4x 1.69%	10.7x 2.08%
Dividend Yield	4.83%	2.27%	1.55%	1.69%	2.08%

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iQprofile[™] Merck KGaA

Key Income Statement Data (Dec)	2007A	2008A	2009E	2010E	2011
(EUR Millions)					
Sales	7,057	7,558	7,722	8,126	8,46
EBITDA Adjusted Depreciation & Amortization	2,676 (924)	2,921 (1,186)	2,243 (871)	2,397 (894)	2,60° (919
EBIT Adjusted	1,752	1,735	1,372	1,503	1,68
Net Interest & Other Income	(311)	(157)	(140)	(53.8)	(2.16
Tax Expense / Benefit	23.1	(196)	(146)	(217)	(272
Net Income (Adjusted)	1,125	1,245	1,007	1,163	1,34
Average Fully Diluted Shares Outstanding	216	217	217	217	21
Key Cash Flow Statement Data					
Net Income (Reported)	3,500	367	438	657	83
Depreciation & Amortization	924	1,186	871	894	91
Change in Working Capital	(192)	(304)	(209)	(127)	(106
Deferred Taxation Charge	0	0	0	0	
Other CFO	(3,014)	(224)	77.4	51.7 1.474	45.
Cash Flow from Operations Capital Expenditure	1,218 (404)	1,024 (536)	1,177 (579)	1,476 (609)	1,69 (634
(Acquisition) / Disposal of Investments	(7,318)	(78.2)	(379)	(009)	(034
Other CFI	4,994	532	0	0	
Cash Flow from Investing	(2,728)	(81.7)	(579)	(609)	(634
Share Issue / (Repurchase)	2,038	0.20	0	0	•
Cost of Dividends Paid	(77.0)	(213)	(66.2)	(72.2)	(89.0
Increase (decrease) debt	235	(0.70)	750	(500)	
Other CFF	(721)	(463)	0	0	(00.0
Cash Flow from Financing	1,476	(676)	684	(572)	(89.0
Total Cash Flow (CFO + CFI + CFF)	(33.5)	266	1,282	294	97
FX and other changes to cash	432	(389)	0	0	0.7
Change in Cash	399	(122)	1,282	294	97
Change in Net Debt Net Debt	(164) 355	122 477	(532) (55.1)	(794) (849)	(974 (1,823
Key Balance Sheet Data	333	4//	(33.1)	(047)	(1,02
Property, Plant & Equipment	2,275	2,440	2,566	2,692	2,81
Goodwill	1,792	1,929	1,929	1,929	1,92
Other Intangibles	6,372	6,274	5,856	5,446	5,04
Other Non-Current Assets	658	643	643	643	64
Trade Receivables	1,378	1,659	1,816	1,911	1,99
Cash & Equivalents	992	870	2,151	2,446	3,41
Other Current Assets	1,455	1,830	1,962	2,043	2,11
Total Assets	14,922	15,645	16,923	17,108	17,94
Long-Term Debt Other Non-Current Liabilities	1,047	1,080	1,595	1,595	1,09
Other Nort-Current Liabilities Short-Term Debt	2,617 300	2,623 266	2,623 501	2,623 1.10	2,62 50
Other Current Liabilities	2,270	2,112		2,345	
Total Liabilities	6,235		2,257 6,977		2,41
Total Equity	8,688	6,082 9,563	9,947	6,565 10,543	6,63 11,30
Total Equity & Liabilities	14,922	15,645	16,923	17,108	17,94
Business Performance*	,,,	107010	10/120	.,,	,
Return On Capital Employed	14.5%	9.04%	7.33%	7.69%	8.439
Return On Equity	18.2%	13.7%	10.4%	11.4%	12.49
Operating Margin	2.84%	9.68%	9.53%	11.6%	13.39
Free Cash Flow (MM)	814	488	598	867	1,06
Quality of Earnings*					.,
Cash Realization Ratio	1.08x	0.82x	1.17x	1.27x	1.26
Asset Replacement Ratio	1.40x	1.93x	1.94x	1.89x	1.83
Tax Rate	20.8%	34.1%	24.5%	24.5%	24.29
Net Debt/Equity	4.09%	4.99%	-0.55%	-8.06%	-16.19
Interest Cover	5.63x	11.1x	9.79x	28.0x	N

Company Description

Merck KGaA is a hybrid chemical and biopharmaceutical company with headquarters in Germany. The 2006 acquisition of Serono bolstered the biopharma portion of the group. Current growth drivers are the biopharma products Erbitux for cancer and Rebif for multiple sclerosis.

Investment Thesis

We see limited pipeline catalysts through early 2010 and we continue to see risks to Erbitux (cancer) forecasts. In addition, shares have only underperformed the sector by c13% through 2009, despite a raft of negative newsflow, we believe related to continued improvement in Liquid Crystals (LC) profitability. With an improvement in LC profitability now reflected in consensus forecasts, we expect pharma challenges to come to the fore

Stock Data

Price to Book Value 1.5x



Table 1: Merck KGaA Investment points

Investment positives

Earlier than anticipated US launch of cladribine Cyclical exposure benefits in potentially rising markets

Investment Negatives

Insufficient valuation upside given risks Vectibix launch from year-end a headwind to Erbitux growth

Improvement in liquid crystal business reflected in consensus

Source: BofA Merrill Lynch Global Research

Table 2: Merck KGaA Sales, EBIT and EPS CAGR '11-'14

Sales	EBIT	EPS
2.6%	6.4%	6.8%

Source: BofA Merrill Lynch Global Research

Table 3: Merck KGaA Key Events next 12 months

Key Phase III/IV data

Safinamide PIII data in Parkinsons possible early 2011 Stimuvax PIII START study in NSCLC possible end-2010/early 2011 Erbitux Phase III gastric cancer

Other positive newsflow triggers

FDA confirms only technical issues to be resolved in cladribine filing package
Caldribine EU approval mid-2010, with 10yrs data exclusivity in EU

Negative newsflow triggers

FDA requests new clinical studies for cladribine Zaltumumab PIII data in H&N cancer end 09 Alimta PIII data in H&N cancer end 09 Cladribine fails to achieve 10yrs data exclusivity EU Source: BofA Merrill Lynch Global Research

Investment thesis

We downgrade Merck to Underperform for reasons outlined below:

Still see risk to Erbitux forecasts: We continue to remain cautious on longer-term Erbitux forecasts (2014E sales of Eur960m vs consensus cEur1.3bn). Specifically, we continue to believe Amgen's Vectibix may act as a headwind to Erbitux growth (following possible launch in early 2011), given its efficacy data is broadly comparable and it has the advantage of a lower dosing frequency and better infusion site reaction profile. We also believe presentation of the recently discontinued Erbitux adjuvant colon cancer study represents asymmetric downside risk should it raise questions over Erbitux's combination usage with FOLFOX. We remind investors that the COIN study (1st line colorectal cancer) raised questions over the combination of Erbitux and XELOX.

Next cladribine newsflow asymmetric downside risk: Although we have already removed US cladribine sales, we continue to believe next newsflow on cladribine represents asymmetric downside risk. Specifically, potential confirmation that the recent "refuse to file letter" is not just related to technical issues which can be resolved quickly (as some in the market are still hoping) could see further share price downside, in our opinion. Conversely, we see limited share price upside should Merck be able to launch cladribine in the US in 2010, given we remain cautious on: 1) Potential launch costs as we believe Pfizer are unlikely to co-promote and we could therefore expect additional marketing launch costs for cladribine in the US vs expectations; 2) Poor patent protection, in our opinion. Cladribine's composition of matter patent has already expired and method of use patents in MS are valid until only c2013E (EU/US). Merck has filed additional patents which would protect the product until 2024. However, these still need to be granted, which is not a foregone conclusion and additional patents are also predominantly usage/formulation patents, which tend to be easier to bypass; 3) Competitive pressures from Novartis's FTY720 are potentially greater than previously anticipated, given recent safety data has been better than anticipated.

Liquid Crystals no longer a source of substantial earnings upgrades: 2009 was characterized by a rapid recovery of Liquid Crystals profitability from close to break-even at the start of the year. However, we believe this improvement is now largely reflected in consensus forecasts, with limited scope for significant upgrades particularly given recent management commentary. Specifically, on its 3Q09 results call management commented that a) There were first signs of oversupply in the market; b) Expected 4Q09 margins (we estimate c40%) are unlikely to be repeated in FY10 given uncertainty on pricing outlook.

Limited pipeline catalysts: We see limited pipeline catalysts that could potentially drive significant share price upside, as discussed below.

Limited valuation downside: Although we downgrade our recommendation, we highlight that our PO is unchanged at Eur67. While this suggests limited absolute valuation downside, our Underperform rating is relative to the greater upside we see elsewhere in the EU pharma sector (please see separate sector report published today).



Table 4: Merck key potential product launches

Drug	Indication	Launch	Risk-adjusted peak sales (\$)
	Multiple		
Cladribine	sclerosis	2010	250
Stimuvax	Lung cancer	2011	150
Safinamide	Parkinson's	2012	150
Kuvan	phenylketonuria	2009	130
Total 2009-			
2017			680
% 2008E sales	3		6.6%

Source: BofA Merrill Lynch Global Research

Core Drivers

We forecast a 11-14E EPS CAGR of 6.8% driven by:

- 1) **Group Revenue 11-14E CAGR of 1.5%**, with Liquid Crystals the fastest growing division (4% CAGR). Importantly, we now only forecast a 0.9% revenue CAGR within Merck-Serono given: 1) A declining royalty income as constituent products loose patent protection; 2) Rebif revenues forecast to decline marginally to account for competition from oral agents, including Novartis's FTY720; 3) Limited pipeline sales contribution from cladribine (US sales removed following recent US refuse to file).
- 2) **Core EBIT margin expansion of 180bp**, with c190bp margin expansion in Merck-Serono and c150bp in Liquid Crystals (given we expect the bulk of recovery from cyclical trough to have already occurred).
- 3) Increasing net financial income as Merck's net cash balance increases: Specifically, we forecast an increase in net financial income of cEur150m between 11-14E, contributing to an increase in PTP of cEur380m over the same period. However, we highlight that these forecasts are potentially at risk should Merck pursue an integration within its chemicals division, as it has indicated is possible.

Pipeline newsflow

Clarification of cladribine US filing strategy: As discussed above, Merck is scheduled to meet with FDA shortly to discuss the recent "refuse to file" letter, with an update on filing strategy therefore possible with FY09 results. However, we believe this represents asymmetric downside risk to share price (though not forecasts).

Erbitux adjuvant colon cancer study: As discussed above, the recently discontinued Erbitux adjuvant colon cancer study is due to be presented shortly. Our focus will be on the toxicity seen in combination with FOLFOX and any potential read-through to the metastatic setting.

Erbitux Phase III in gastric cancer: First Phase III data (primary endpoint PFS) from the EXPAND study in 1st line gastric cancer is expected shortly. Although positive data could open up a reasonable (cEur250m) market opportunity, we continue to exclude sales from forecasts given; 1) Avastin data in the same setting (AVAGAST, primary endpoint overall survival) is also expected in 1H 2010 and is likely to be viewed as a competitive reference point; 2) Overall survival data (not expected until 2012) may be needed for filing.

Potential for first Stimuvax and Safinamide data end 2010: First Phase III data for both Stimuvax (lung cancer vaccine) and safinamide (Parkinson's disease) is expected, most likely from 4Q 2010. However, we view both projects as high risk and therefore exclude sales for both from forecasts.

Eye on competitor newsflow: Phase III data for both Alimta and Zalutumumab in Head & Neck (H&N) cancer is expected shortly, which could provide competition to Erbitux in this indication. We also highlight Phase III data for AZN's Recentin in 1st line mCRC is expected in 1H 2010, which may represent additional competition for Erbitux in this indication, should data be positive.

Risks to Underperform

Better than anticipated newsflow on cladribine: The key near-term risk to our Underperform rating is better than anticipated newsflow on cladribine US regulatory timelines. However, we believe this is unlikely.

Table 5: Merck key US patents

Product	Assumed Expiry	% 2008A Sales
Erbitux	2014	0%
Rebif	2013	8%
Cladribine	2013	0%
Total 2010-2012		0.0%
Total 2010-2017		8.0%



Key Events

Table 6: Merck Key Events

Time Drug Indication Event Type Phase Mechanism of Action Comment	
1010	
1010	
1Q Cladribine Multiple Approval/Launch PIII Lymphocyte cell death Merck due to meet with FDA to discuss content of cladribi	ine refuse to file letter
Sclerosis	
1Q Erbitux H&N cancer Phase III data Approved EGFR inhibitor Alimta (Lilly) PIII data in Head & neck cancer due by end (
1Q Erbitux NSCLC (lung Other Approved EGFR inhibitor Zalutumumab (Genmab, EGFR inhibitor) PIII data in Head cancer) by end-2009.	d and Neck cancer expected
1Q Stimuvax NSCLC (lung Phase III data PIII Lung cancer vaccine PIII START study interim analysis possible cancer)	
2010	
2Q Cladribine Multiple Approval/Launch PIII Lymphocyte cell death EU approval expected 3Q09 (filed 23 July 2009) but could	be delayed if EMEA has
Sclerosis similar concerns to FDA.	
4Q10	
2H Erbitux Gastric cancer Phase III data Approved EGFR inhibitor Data from PIII EXPAND study possible	
2H Safinamide Parkinson's Phase III data PIII Dopamine uptake & MAO-B inh. PIII MOTION study data expected Sept 2010	
2H Safinamide Parkinson's Phase III data PIII Dopamine uptake & MAO-B inh. PIII SETTLE study data expected	
2H Stimuvax NSCLC (lung Phase III data PIII Lung cancer vaccine PIII START study final analysis possible	
cancer)	
2011	
Atacicept Lupus Phase III data PIII TACI-IG First PIII data possible in lupus	
2012	
2Q Cilengitide Glioblastoma Phase III data PIII Integrin inhibitor First PIII data from CENTRIC study possible	
2H Cladribine Multiple Phase III data PIII Lymphocyte cell death PIII ORACLE data in early stage MS (CIS) possible	
Sclerosis	
2013	
2H Cladribine Multiple Phase III data PIII Lymphocyte cell death Phase II (ONWARD) data in 1H09E. Safety, tolerability &	efficacy of cladribine plus
Sclerosis Rebif in pts with active disease despite treatment with Rel	bif.



DCF Valuation

Table 7: Merck DCF - Assumptions

Equity		Enterprise Value				
Risk Free Rate	4.5%	Gross Debt	1,346			
Equity Risk Premium	6.0%	Cash & Equivalents	870			
Beta	1	Net Debt (m)	477			
Cost of Equity	10.5%	Minorities (m)	58			
		Options (m)	0			
Debt		Preference Stock (m)	0			
Risk Free Rate	4.5%	Market Cap (m)	14,000			
Corporate Debt Premium	1.5%	Enterprise Value (m)	14,534			
Marginal Tax Rate	34%	% Debt	4%			
Post Tax Cost of Debt	4.0%	% Equity	96%			
		WACC	10.3%			

Source: BofA Merrill Lynch Global Research

Table 8: Merck DCF - Valuation

Table 6. WEICK DCI - Valuation												
(EUD 1111 D 1/E)	Stage 1	Stage 2	Stage 2	Stage 2	Stage 2	•	Terminal					
(EUR millions Dec YE)	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Free Cash Flow												
Operating Profit (pre-exc)	804.9	938.5	1,123.8	1,216.7	1,299.2	1,355.3						
Pipeline	-	-	-	-	-	-						
R&D expenditure	-	-	-	-	-	-						
Tax	24.5	24.5	24.2	24.0	24.0	24.0						
NOPAT	607.7	708.6	851.9	924.7	987.4	1,030.0						
Depreciation & Amortisation	871.0	894.4	918.8	943.9	969.6	995.5						
Other Adjustments	65.4	39.7	33.1	19.4	10.3	8.0						
Change work cap	(209.4)	(127.3)	(105.9)	(62.2)	(32.9)	(25.7)						
Capex	(578.9)	(609.2)	(634.4)	(649.2)	(657.0)	(663.1)						
Operating FCF	756	906	1,063	1,177	1,277	1,345	1,406	1,461	1,508	1,546	1,574	1,592
Growth		19.9%	17.3%	10.6%	8.6%	5.3%	4.6%	3.9%	3.2%	2.5%	1.8%	1.1%
Discount factor	1.00	0.91	0.82	0.75	0.68	0.61	0.56	0.51	0.46	0.42	0.38	0.34
NPV of Cashflows	758	824	877	879	866	827	784	739	691	643	594	544
Sum of NPV of Cashflows	9,025											
Terminal Value	6,027											
Enterprise Value	15,052											
Terminal Value as % of EV	40%											
Net Debt (m)	477											
Minorities (m)	58											
Options (m)	0											
Preference Stock (m)	0											
Equity Value	14,518											
Shares Outstanding (m)	217											
Equity Value per share (EUR) Source: BofA Merrill Lynch Global Research	66.8											

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Models

Table 9: Merck Product sales model

										%	Chg Yo'	Y			CAGR
Year to December (Euro mn)	2008A	2009E	2010E	2011E	2012E	2013E	2014E	2008A	2009E	2010E	2011E	2012E	2013E	2014E	11-14E
Rebif (r-IFN-b 1a)	1,331	1,539	1,570	1,570	1,491	1,461	1,432	9	16	2	0	-5	-2	-2	(3.0)
Other products	1,156	1,179	1,238	1,269	1,295	1,308	1,321	11	2	5	2	2	1	1	1.4
Erbitux	565	689	797	910	956	958	961	20	22	16	14	5	0	0	1.8
Gonal-f (r-FSH SQ inj)	460	488	497	522	548	576	605	6	6	2	5	5	5	5	5.0
Concor / Bisoprolol products	433	433	433	433	433	433	433	14	0	0	0	0	0	0	0.0
Glucophage / Metformin products	290	300	306	309	312	315	319	9	3	2	1	1	1	1	1.0
Saizen (r-hGH)	172	175	174	172	170	169	167	5	2	-1	-1	-1	-1	-1	(1.0)
Euthyrox / Thyroid Products	150	156	161	164	167	171	174	11	4	3	2	2	2	2	2.0
Raptiva (anti-CD11)	93	17	1	1	1	1	1	22	-82	-95	0	0	0	0	0.0
Kuvan	0	11	30	49	71	79	89	nm	nm	179	61	45	12	12	21.8
Cladribine	0	0	50	100	180	200	200	nm	nm	nm	100	80	11	0	26.0
Merck Serono Sales (Excl Royalty Income)	4,650	4,986	5,257	5,499	5,626	5,672	5,701	11	7	5	5	2	1	1	1.2
Total Consumer Health Care Revenue	442	464	475	487	497	507	518	5	5	3	2	2	2	2	2.1
Generics	0	0	0	0	0	0	0	-100	nm	nm	nm	nm	nm	nm	nm
Pharma sales	5,429	5,766	6,037	6,285	6,413	6,455	6,480	-13	6	5	4	2	1	0	1.0
Total Liquid Crystals Revenue	877	722	793	856	898	934	962	-4	-18	10	8	5	4	3	4.0
Total PLS Revenue	1,246	1,234	1,296	1,322	1,348	1,375	1,403	1	-1	5	2	2	2	2	2.0
Total Chemicals revenues	2,123	1,955	2,088	2,177	2,246	2,309	2,365	-1	-8	7	4	3	3	2	2.8
Total Product Sales	7,202	7,386	7,800	8,141	8,347	8,465	8,560	-12	3	6	4	3	1	1	1.7
Total Revenues	7,558	7,722	8,126	8,462	8,659	8,764	8,845	-11	2	5	4	2	1	1	1.5



Table 10: Merck Group Profit & Loss

											Chg Yo				CAGE
Year to December (Euro mn)	2008A	2009E	2010E	2011E	2012E	2013E	2014E	2008A	2009E	2010E	2011E	2012E	2013E	2014E	11-14E
Total Revenues	7,558	7,722	8,126	8,462	8,659	8,764	8,845	7	2	5	4	2		1	1.3
Cost of Sales	-1,906	-2,021	-2,091	-2,169	-2,219	-2,252	-2,278	7	6	3	4	2	1	1	1.6
Gross Profit	5,652	5,700	6,035	6,293	6,441	6,512	6,567	7	1	6	4	2	1	1	1.4
Marketing and Selling Expenses	-2,097	-2,201	-2,243	-2,327	-2,381	-2,410	-2,433	8	5	2	4	2	1	1	1.5
Administration Expenses	-446	-448	-471	-491	-502	-508	-513			5	4	2	1	1	1.5
R&D Expenses	-1,234	-1,373	-1,432	-1,441	-1,464	-1,461	-1,470	20	11	4	1	2	-0	1	0.7
Amortisation of intangible assets	-573	-573	-573	-573	-573	-573	-573	3			0	0	0	0	0.0
Operating Profit - pre-exceptionals	1,131	805	938	1,124	1,217	1,299	1,355	16	-29	17	20	8	7	4	6.4
Exceptional Items	-400	-69	1	1	1	1	1	-48	-83	nm	0	0	0	0	0.0
EBIT	731	736	940	1,125	1,218	1,300	1,356	265	1	28	20	8	7	4	6.4
Core EBIT (ex. amort, restruct & exc)	1,735	1,372	1,503	1,688	1,781	1,864	1,920	-1	-21	10	12	6	5	3	4.4
Net Financial Income/(Expense)	-157	-140	-54	-2	44	95	150	-50	-10	-62	-96	nm	117	58	(511.5,
Pretax Profit (PTP)	575	596	886	1,123	1,262	1,395	1,507	nm	4	49	27	12	11	8	10.3
Taxation	-196	-146	-217	-272	-303	-335	-362	nm	-25	49	25	11	11	8	10.0
Overall Tax rate on PTP	34	25	25	24	24	24	24	64	-28	0	-1	-1	0	0	(0.3)
Profit after Tax - Cont Operations	379	450	669	851	959	1,060	1,145	nm	19	49	27	13	11	8	10.4
Profit after Tax	379	450	669	851	959	1,060	1,145	-89	19	49	27	13	11	8	10.4
Minority Interests	-12	-12	-12	-12	-12	-12	-12	-40	0	0	0	0	0	0	0.0
Net Profit after Minority Interest	367	438	657	839	947	1,048	1,133	-90	19	50	28	13	11	8	10.5
Core Profit after Tax	1,245	1,007	1,163	1,346	1,453	1,555	1,640	11	-19	16	16	8	7	5	6.8
Reported diluted EPS (EUR)	1.69	2.01	3.02	3.86	4.36	4.82	5.21	-90	19	50	28	13	11	8	10.5
Core EPS	5.73	4.63	5.35	6.19	6.69	7.15	7.54	10	-19	16	16	8	7	5	6.8
Dividends per Share Interim/Final (EUR)	1.50	1.02	1.12	1.38	1.55	1.72	1.86	-53	-32	9	23	13	11	8	10.5
Dividend Cover on EPS	1.13	1.97	2.70	2.80	2.80	2.80	2.80	-78	<i>75</i>	37	4	-0	-0	-0	(0.0)
Dividend Cover on Pre-exc EPS	2.18	2.20	2.70	2.80	2.80	2.80	2.80	230	1	23	4	0	0	0	0.0
WA Basic Shares (mn)	217	217	217	217	217	217	217	1	-0	0	0	0	0	0	0.0
WA Shares Diluted (mn)	217	217	217	217	217	217	217	1	-0	0	0	0	0	0	0.0
Margins (% Sales)															
Gross Profit	74.8	73.8	74.3	74.4	74.4	74.3	74.2								
Operating Profit - pre-exceptionals	15.0	10.4	11.5	13.3	14.1	14.8	15.3								
Exceptional Items	<i>-5.3</i>	-0.9	0.0	0.0	0.0	0.0	0.0								
EBIT	9.7	9.5	11.6	13.3	14.1	14.8	15.3								
Pretax Profit (PTP)	7.6	7.7	10.9	13.3	14.6	15.9	17.0								
Profit after Tax	5.0	5.8	8.2	10.1	11.1	12.1	12.9								
Net Profit after Minority Interest	4.9	5.7	8.1	9.9	10.9	12.0	12.8								
Core Profit after Tax	16.5	13.0	14.3	15.9	16.8	17.7	18.5								
Costs (% Sales)	0.0			0.0	0.0	0.0	0.0								
Cost of Sales	25.2			25.6	25.6	25.7	25.8								
Marketing and Selling Expenses	27.7	28.5	27.6	27.5	27.5	27.5	27.5								
Administration Expenses	5.9	5.8	5.8	5.8	5.8	5.8	5.8								
R&D Expenses	16.3	17.8	17.6	17.0	16.9	16.7	16.6								
NAD EXPENSES	10.3	17.0	17.0	17.0	10.9	10.7	10.0								

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Table 11: Merck Segment Profit & Loss

										%	Chg Yo	Υ			CAGR
Year to December (Euro mn)	2008A	2009E	2010E	2011E	2012E	2013E	2014E	2008A	2009E	2010E	2011E	2012E	2013E	2014E	11-14E
Merck Sereno Sales															
Sales	4,650	4,986	5,257	5,499	5,626	5,672	5,701	11	7	5	5	2	1	1	1.2
Royalty Income	337	316	305	299	290	276	262	25	-6	-3	-2	-3	-5	-5	(4.3)
Total Revenues	4,987	5,302	5,562	5,798	5,916	5,947	5,962	12	6	5	4	2	1	0	0.9
Cost of Sales	-796	-858	-894	-929	-945	-947	-946	15	8	4	4	2	0	-0	0.6
% Sales	16.0	16.2	16.1	16.0	16.0	15.9	15.9								
Gross Profit	4,191	4,445	4,668	4,869	4,971	5,000	5,016	11	6	5	4	2	1	0	1.0
Gross Margin %	84.0	83.8	83.9	84.0	84.0	84.1	84.1								
SG&A	-1,959	-2,158	-2,258	-2,308	-2,325	-2,302	-2,278	-1	10	5	2	1	-1	-1	(0.4)
% of Revenues	39.3	40.7	40.6	39.8	39.3	38.7	38.2								
R&D Expenses	-1,074	-1,204	-1,246	-1,247	-1,266	-1,267	-1,270	22	12	4	0	2	0	0	0.6
% of Revenues	21.5	22.7	22.4	21.5	21.4	21.3	21.3								
Operating Profit (pre-exc)	594	519	600	750	815	867	904	66	-13	16	25	9	6	4	6.4
Operating Margin %	11.9	9.8	10.8	12.9	13.8	14.6	15.2								
EBIT	240	449	600	750	815	867	904	nm	87	34	25	9	6	4	6.4
Margin %	4.8	8.5	10.8	12.9	13.8	14.6	15.2								
Core EBIT (pre-exc, pre-amort, pre-restr)	1,197	1,086	1,164	1,314	1,380	1,432	1,468	6	-9	7	13	5	4	3	3.8
Core EBIT Margin %	24.0	20.5	20.9	22.7	23.3	24.1	24.6								

Source: BofA Merrill Lynch Global Research

Table 12: Merck Segment Profit & Loss (Contd)

										%	Chg Yo	Υ			CAGR
Year to December (Euro mn)	2008A	2009E	2010E	2011E	2012E	2013E	2014E	2008A	2009E	2010E	2011E	2012E	2013E	2014E	11-14E
Consumer Healthcare															
Sales	440	462	474	485	495	505	515	5	5	3	2	2	2	2	2.1
Royalty Income	2	2	2	2	2	2	2	20	5	5	5	5	5	5	5.0
Total Revenues	442	464	475	487	497	507	518	5	5	3	2	2	2	2	2.1
Cost of Sales	-148	-156	-159	-162	-166	-169	-173	9	5	2	2	2	2	2	2.1
% of Sales	33.5	33.6	33.4	33.4	33.4	33.3	33.3								
Gross Profit	294	308	317	324	331	338	345	4	5	3	2	2	2	2	2.1
Gross Margin %	66.5	66.4	66.6	66.6	66.6	66.7	66.7								
SG&A	-213	-246	-252	-258	-264	-269	-274	2	15	3	2	2	2	2	2.1
% of Revenues	48.3	53.0	53.0	53.0	53.0	53.0	53.0								
R&D Expenses	-17	-16	-17	-17	-17	-18	-18	40	-3	3	2	2	2	2	2.1
% of Revenues	3.8	3.5	3.5	3.5	3.5	3.5	3.5								
Operating Profit (pre-exc)	61	44	46	47	48	49	50	3	-28	5	3	2	2	2	2.2
Operating Margin %	13.9	9.5	9.7	9.7	9.7	9.7	9.7								
EBIT	61	44	46	47	48	49	50	3	-28	5	3	2	2	2	2.2
Margin %	13.9	9.5	9.7	9.7	9.7	9.7	9.7								
Core EBIT (pre-exc, pre-amort)	61	44	46	47	48	49	50	-1	-28	5	3	2	2	2	2.2
Margin %	13.9	9.5	9.7	9.7	9.7	9.7	9.7								



Table 13: Merck Segment Profit & Loss (Contd)

								% Chg YoY				CAGR			
Year to December (Euro mn)	2008A	2009E	2010E	2011E	2012E	2013E	2014E	2008A	2009E	2010E	2011E	2012E	2013E	2014E	11-14E
Liquid Crystals															
Sales	865	709	780	842	884	920	947	-5	-18	10	8	5	4	3	4.0
Royalty Income	12	13	13	13	14	14	15	95	3	3	3	3	3	3	3.0
Total Revenues	877	722	793	856	898	934	962	-4	-18	10	8	5	4	3	4.0
Cost of Sales	-336	-351	-351	-379	-398	-414	-426	10	4	0	8	5	4	3	4.0
% of Sales	38.4	48.6	44.3	44.3	44.3	44.3	44.3								
Gross Profit	541	371	442	477	500	520	536	-12	-31	19	8	5	4	3	4.0
Gross Margin %	61.6	51.4	55.7	55.7	55.7	55.7	55.7								
SG&A	-61	-58	-71	-73	-76	-79	-82	44	-6	24	2	5	4	3	4.0
% of Revenues	7.0	8.0	9.0	8.5	8.5	8.5	8.5								
R&D Expenses	-85	-95	-109	-116	-117	-112	-115	8	12	14	6	1	-4	3	(0.0)
% of Revenues	9.7	13.2	13.7	13.5	13.0	12.0	12.0								
Operating Profit (pre-exc)	391	214	259	285	304	325	335	-20	-45	21	10	7	7	3	5.5
Operating Margin %	44.6	29.7	32.6	33.3	33.8	34.8	34.8								
EBIT	391	214	259	285	304	325	335	-20	-45	21	10	7	7	3	5.5
Margin %	44.6	29.7	32.6	33.3	33.8	34.8	34.8								
Core EBIT (pre-exc, pre-amort)	391	214	259	285	304	325	335	-20	-45	21	10	7	7	3	5.5
Margin %	44.6	29.7	32.6	33.3	33.8	34.8	34.8								
Source: BofA Merrill Lynch Global Research															

Table 14: Merck Segment Profit & Loss (Contd)

										%	Chg Yo	Υ			CAGE
Year to December (Euro mn)	2008A	2009E	2010E	2011E	2012E	2013E	2014E	2008A	2009E	2010E	2011E	2012E	2013E	2014E	11-14E
Performance & Life Sciences															
Sales	1,241	1,228	1,290	1,316	1,342	1,369	1,396	1	-1	5	2	2	2	2	2.0
Royalty Income	5	5	6	6	6	7	7	46	5	5	5	5	5	5	5.0
Total Revenues	1,246	1,234	1,296	1,322	1,348	1,375	1,403	1	-1	5	2	2	2	2	2.0
Cost of Sales	-617	-657	-688	-699	-710	-721	-733	-0	7	5	2	2	2	2	1.0
% of Sales	49.5	53.3	53.1	52.9	52.7	52.5	52.2								
Gross Profit	629	577	608	623	638	654	670	2	-8	5	2	2	2	2	2.3
Gross Margin %	50.5	46.7	46.9	47.1	47.3	47.5	47.8								
SG&A	-401	-422	-440	-447	-453	-459	-466	-2	5	4	1	1	1	1	1.4
% of Revenues	32.2	34.2	34.0	33.8	33.6	33.4	33.2								
R&D Expenses	-58	-58	-61	-62	-63	-65	-66	0	-1	5	2	2	2	2	2.0
% of Revenues	4.7	4.7	4.7	4.7	4.7	4.7	4.7								
Operating Profit (pre-exc)	167	94	104	111	119	127	135	15	-44	11	7	7	7	7	6.6
Operating Margin %	13.4	7.6	8.0	8.4	8.8	9.2	9.7								
EBIT	121	95	105	113	120	128	137	-17	-21	11	7	7	7	6	6.
Margin %	9.7	7.7	8.1	8.5	8.9	9.3	9.7								
Core EBIT (pre-exc, pre-amort)	167	94	104	111	119	127	135	13	-44	11	7	7	7	7	6.6
Margin %	13.4	7.6	8.0	8.4	8.8	9.2	9.7								



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Table 13. Dalatice Stiect								
(EUR millions Dec YE)	2007A	2008A	2009E	2010E	2011E	2012E	2013E	2014E
Non-current Assets	11,097	11,286	10,994	10,709	10,424	10,129	9,817	9,485
Intangible Assets (Net)	8,165	8,203	7,785	7,375	6,971	6,571	6,174	5,778
Property, Plant and Equipment (Net)	2,275	2,440	2,566	2,692	2,811	2,916	3,001	3,064
Investments at Equity	1	1	1	1	1	1	1	1
Other Long-term Assets	656	641	641	641	641	641	641	641
Current Assets	3,826	4,359	5,929	6,399	7,519	8,215	9,500	10,875
Inventories	1,159	1,407	1,540	1,621	1,688	1,727	1,748	1,764
Raw materials and Production Supplies	239	254	0	0	0	0	0	0
Wip, Finished Goods & Goods for Resale	917	1,152	0	0	0	0	0	0
Advance Payments	3	2	0	0	0	0	0	0
Trade Accounts Receivable	1,378	1,659	1,816	1,911	1,990	2,036	2,061	2,080
Other Current Assets	297	422	422	422	422	422	422	422
Cash, Equivalents & ST Investments	992	870	2,151	2,446	3,419	4,030	5,269	6,609
Cash and Cash Equivalents	427	693	1,975	2,269	3,243	3,853	5,092	6,432
Marketable securities and financial assets	565	177	177	177	177	177	177	177
Total Assets	14,922	15,644.70	16,923	17,108	17,943	18,345	19,317	20,360
Current Liabilities	2,571	2,378	2,758	2,346	2,919	2,462	2,485	2,503
Current Financial Liabilities	299	265	500	-	500	-	-	-
Leasing Obligations	1	1	1	1	1	1	1	1
Trade Accounts Payable	647	844	923	971	1,012	1,035	1,048	1,058
Other Current Liabilities	989	694	760	799	832	852	862	870
Tax Liabilities	337	347	347	347	347	347	347	347
Current Provisions	297	227	227	227	227	227	227	227
Deferred Revenue	0	0	0	0	0	0	0	0
Non-current Liabilities	3,664	3,703	4,218	4,218	3,718	3,718	3,718	3,718
Non-current Financial Liabilities (LT Debt)	1,038	1,072	1,587	1,587	1,087	1,087	1,087	1,087
Leasing Obligations	9	8	8	8	8	8	8	8
Other Non-Current Liabilities	40	20	20	20	20	20	20	20
Long-term Provisions	1,756	1,707	1,707	1,707	1,707	1,707	1,707	1,707
Deferred Tax Liabilities	822	896	896	896	896	896	896	896
Deferred Income	0	0	0	0	0	0	0	0
Total Shareholders' Equity	8,626	9,505	9,877	10,462	11,212	12,058	12,996	14,009
Share Capital	565	565	565	565	565	565	565	565
Reserves	8,061	8,940	9,312	9,897	10,647	11,493	12,430	13,443
Retained earnings	4,247	5,127	5,498	6,083	6,833	7,679	8,617	9,630
Additional Paid-in Capital	3,814	3,814	3,814	3,814	3,814	3,814	3,814	3,814
Minority Interests	62	58	70	82	94	106	118	130
Total Liabilities and Shareholders' Equity	14,922	15,644.70	16,923	17,108	17,943	18,345	19,317	20,360
Total Long term debt	1,047	1,080	1,595	1,595	1,095	1,095	1,095	1,095
Total short term debt	300	266	501	1	501	1	1	1
Gross debt	1,347	1,346	2,096	1,596	1,596	1,096	1,096	1,096
Cash & equivalents	992	870	2,151	2,446	3,419	4,030	5,269	6,609
Net debt/(cash)	355	477	-55	-849	-1,823	-2,934	-4,173	-5,512
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Table 1				

Table 10. Cash Flow Statement								
(EUR millions Dec YE)	2007A	2008A	2009E	2010E	2011E	2012E	2013E	2014E
Profit after Tax	3,520	379.10	450	669	851	959	1,060	1,145
Depreciation and Amortisation	924	1,215	871	894	919	944	970	995
Depreciation	288	278	298	322	346	371	397	423
Depreciation / Gross TFA %	6.3%	5.3%	5.3%	5.3%	5.3%	5.3%	5.3%	5.3%
Goodwill Amortisation	-	42	-	-	-	-	-	-
Other Amortisation	636	866	573	573	573	573	573	573
Other Adjustments and Exceptionals	-2,757	-8	0	0	0	0	0	0
Decrease/(Increase) in Inventories	-171	-226	-133	-81	-67	-39	-21	-16
Decrease/(Increase) in Receivables	-153	-268	-156	-95	-79	-46	-25	-19
Increase/(Decrease) in Payables	131	189	79	48	40	24	12	10
Change in WC	-192	-304	-209	-127	-106	-62	-33	-26
Increase/(Decrease) in Provisions	53	-71	0	0	0	0	0	0
Changes in Other Operating Assets & Liabilities	-330	-187	65	40	33	19	10	8
Net Cash Flow from Operating Activities	1,218	1,024	1,177	1,476	1,697	1,860	2,007	2,123
Purchase of Intangible Assets	-121	-141	-154	-162	-169	-173	-175	-177
Purchase of Property, Plant and Equipment	-283	-395	-425	-447	-465	-476	-482	-487
Capex/Sales	4.0	5.6	5.5	5.5	5.5	5.5	5.5	5.5
Capex/Depreciation	98.4%	142.0%	142.3%	138.9%	134.4%	128.3%	121.4%	115.0%
Acquisitions & investments in other financial assets	-7,318	-78	0	0	0	0	0	0
Disposals of Assets	4,996	36	0	0	0	0	0	0
Changes in Securities	35	-8	0	0	0	0	0	0
Changes in Other Financial Assets	-36	504	0	0	0	0	0	0
Net Cash Flow from Investing Activities	-2,728	-82	-579	-609	-634	-649	-657	-663
Dividend Payments	-77	-213	-66	-72	-89	-100	-111	-120
Capital Changes	2,038	0	0	0	0	0	0	0
Debt Changes	67	-215	750	-500	0	-500	0	0
Other Financing Cash Flows	-536	-240	0	0	0	0	0	0
Net Cash Flow from Financing Activities	1,493	-667	684	-572	-89	-600	-111	-120
Effect of FX on Cash and Cash Equivalents	-17	-10	0	0	0	0	0	0
Increase in Cash	-34	266	1,282	294	974	610	1,239	1,340
Cash and cash equivalents at January 1	460	427	693	1,975	2,269	3,243	3,853	5,092
Cash and cash equivalents at end of the period	427	693	1,975	2,269	3,243	3,853	5,092	6,432
Operating Cash Flow	1,218	1,024	1,177	1,476	1,697	1,860	2,007	2,123
Investing Cash Flow	-2,728	-82	-579	-609	-634	-649	-657	-663
Financing Cash Flow	1,476	-676	684	-572	-89	-600	-111	-120
Net Change in Cash	-34	266	1,282	294	974	610	1,239	1,340
Free Cash Flow	814	488	598	867	1,063	1,211	1,350	1,460
CFPS	-0.16	1.22	5.90	1.35	4.48	2.81	5.70	6.16
Free CFPS	3.77	2.25	2.75	3.99	4.89	5.57	6.21	6.72
Source: RofA Merrill Lynch Global Research								

Price objective basis & risk Merck KGaA (MKGAF)

We set a PO of Eur67 based on our DCF valuation. Within our DCF we assume a WACC of 10.3% and terminal growth rate of 1.1%.

Our PO assumes the shares trade on a 2011E PE of 10.8, a c8% discount to our target sector PE of 11.8. We assume a discount rating despite its premium growth (11-14E EPS CAGR of 6.8% vs the EU sector average of 3.2) given potential earnings risks and lack of catalysts, in our opinion.

Risks to our price objective are: (1) Greater than expected price erosion in the liquid crystal market (2) Failure of Erbitux to retain market share in colorectal cancer (mCRC) (3) Risk to longer-term Rebif forecasts from oral competition (e.g. FTY720) (4) Failure of cladribine to obtain 10 years of EU data exclusivity

Analyst Certification

I, Sachin Jain, CFA, 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.

EMEA - Pharmaceuticals Coverage Cluster

Investment rating	Company	BofAML ticker	Bloomberg symbol	Analyst
BUY				
	Almirall	LBTSF	ALM SM	Jamie Clark, CFA
	Bayer	BAYZF	BAYN GR	Sachin Jain, CFA
	Bayer	BAYRY	BAYRY US	Sachin Jain, CFA
	Hikma	HKMPF	HIK LN	Jamie Clark, CFA
	Roche Holdings	RHHBF	ROG VX	Sachin Jain, CFA
	Roche Holdings	RHHBY	RHHBY US	Sachin Jain, CFA
	Sanofi	SNY	SNY US	Graham Parry
	Sanofi	SNYNF	SAN FP	Graham Parry
	Shire	SHPGF	SHP LN	Graham Parry
	Shire	SHPGY	SHPGY US	Graham Parry
NEUTRAL				
	AstraZeneca	AZN	AZN US	Sachin Jain, CFA
	AstraZeneca	AZNCF	AZN LN	Sachin Jain, CFA
	Novartis (Reg.)	NVS	NVS US	Graham Parry
	Novartis (Reg.)	NVSEF	NOVN VX	Graham Parry
	Novo Nordisk	NONOF	NOVOB DC	Sachin Jain, CFA
	Novo Nordisk	NVO	NVO US	Sachin Jain, CFA
	Stada Group	STDAF	SAZ GR	Jamie Clark, CFA
UNDERPERFORM				
	Galenica	GNHAF	GALN SW	Jamie Clark, CFA
	Gedeon Richter	RGEDF	RICHT HB	Jamie Clark, CFA
	GlaxoSmithKline	GSK	GSK US	Graham Parry
	GlaxoSmithKline	GLAXF	GSK LN	Graham Parry
	Merck KGaA	MKGAF	MRK GR	Sachin Jain, CFA
	UCB	UCBJF	UCB BB	Brigitte de Lima



iQmethod™ Measures Definitions

Business Performance Numerator Denominator

Return On Capital Employed NOPAT = (EBIT + Interest Income) * (1 - Tax Rate) + Goodwill Total Assets – Current Liabilities + ST Debt + Accumulated Goodwill

Amortization Amortization Shareholder

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

 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, Less Cash & Equivalents
 Total Equity

 Interest Cover
 EBIT
 Interest Expense

Valuation Toolkit

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 + Sales

EV / EBITDA Enterprise Value Basic EBIT + Depreciation + Amortization

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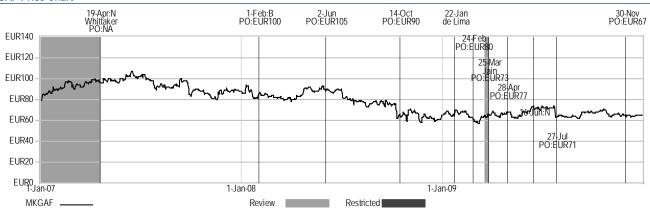
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MKGAF Price Chart



B: Buy, N: Neutral, S: Sell, U: Underperform, PO: Price objective, NA: No longer valid

"Prior to May 31, 2008, the investment opinion system included Buy, Neutral and Sell. As of May 31, 2008, the investment opinion system includes Buy, Neutral and Underperform. Dark Grey shading indicates that a security is restricted with the opinion suspended. Light grey shading indicates that a security is under review with the opinion withdrawn. The current investment opinion key is contained at the end of the report. Chart is current as of December 31, 2009 or such later date as indicated.

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Investment Rating Distribution: Health Care Group (as of 01 Jan 2010)

Count	Percent	Inv. Banking Relationships*	Count	Percent
95	49.74%	Buy	58	64.44%
52	27.23%	Neutral	34	70.83%
44	23.04%	Sell	26	61.90%
Group (as of 01	Jan 2010)			
Count	Percent	Inv. Banking Relationships*	Count	Percent
1699	50.78%	Buy	904	58.82%
841	25.13%	Neutral	491	65.03%
	95 52 44 Group (as of 01 2 Count 1699	95 49.74% 52 27.23% 44 23.04% Group (as of 01 Jan 2010) Count Percent 1699 50.78%	95 49.74% Buy 52 27.23% Neutral 44 23.04% Sell Group (as of 01 Jan 2010) Count Percent 1699 50.78% Buy	95 49.74% Buy 58 52 27.23% Neutral 34 44 23.04% Sell 26 Group (as of 01 Jan 2010) Count Percent Inv. Banking Relationships* Count 1699 50.78% Buy 904

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Sell

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Investment rating Total return expectation (within 12-month period of date of initial rating) Ratings dispersion guidelines for coverage cluster*

Buy	≥ 10%	≤ 70%
Neutral	≥ 0%	≤ 30%
Underperform	N/A	≥ 20%

24.09%

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806

49.80%

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