

## **Pharmaceutical Industry Overview**

Do The Math

Chicago, IL Bangalore, India www.mu-sigma.com

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**Proprietary Information** 

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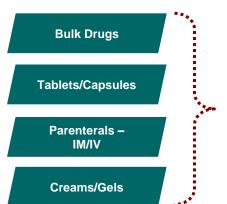


## Within This Training Module

- Quick Look on Industry Trends and Stakeholder Interactions
- Aerial View on Global Pharmaceutical Industry
- US Pharmaceutical Market Review



### Aerial view on healthcare industry









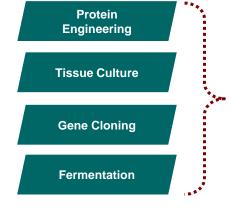
Diagnostic

**Equipments** 

Surgery

Hospitals

**Healthcare Industry** 











### **Snap shot of our clients**















**Pharmaceutical** 



**Medical Technology** 



smiths medical

**Healthcare Industry** 







**Biotechnology** 



**Healthcare Services** 

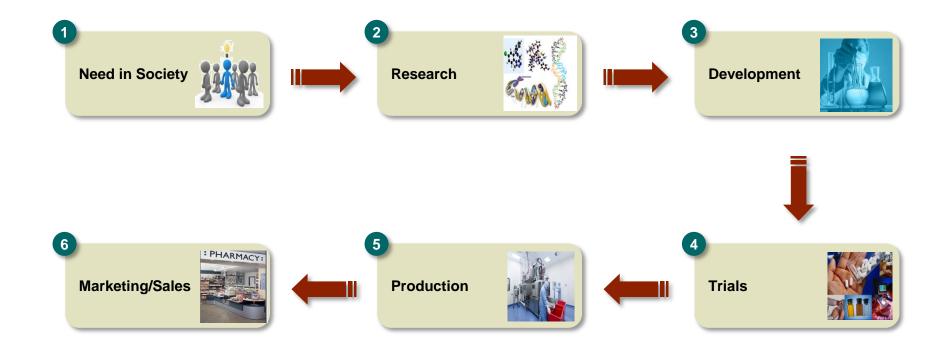


Top 50 Pharmaceutical Companies, December 2010

Top 50 Biotech Companies, August 2009



#### **Pharmaceutical Value Chain**





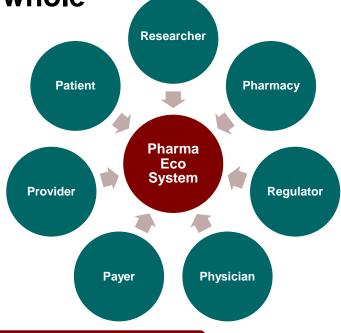
The pharmaceutical marketplace is changing dramatically, with huge implications for the industry as a whole

#### **Pharmaceutical Industry Trends**

We identified eight major trends reshaping pharmaceutical marketplace

- 1. The burden of chronic disease is soaring: prevalence of chronic diseases like diabetes, cardio, oncology is growing everywhere.
- Increasing consolidation in retail pharmacy market is increasing pressure on profit margins.
- 3. Healthcare policy-makers and payers are increasingly mandating or influencing what doctors can prescribe.
- 4. The boundaries between different forms of healthcare are blurring.
- The markets of the developing world, where demand for medicines is likely to grow most rapidly over the next 13 years, are varied.
- Many governments are beginning to focus on prevention rather than treatment, although they are not yet investing adequately in pre-emptive measures.
- 7. The regulators are becoming more vigilant.
- 8. Pay-for-performance is on the rise: A growing number of healthcare payers are measuring the pharmacoeconomic performance of different medicines.

These trends are influencing stakeholders in deciding whether a new product is innovative.

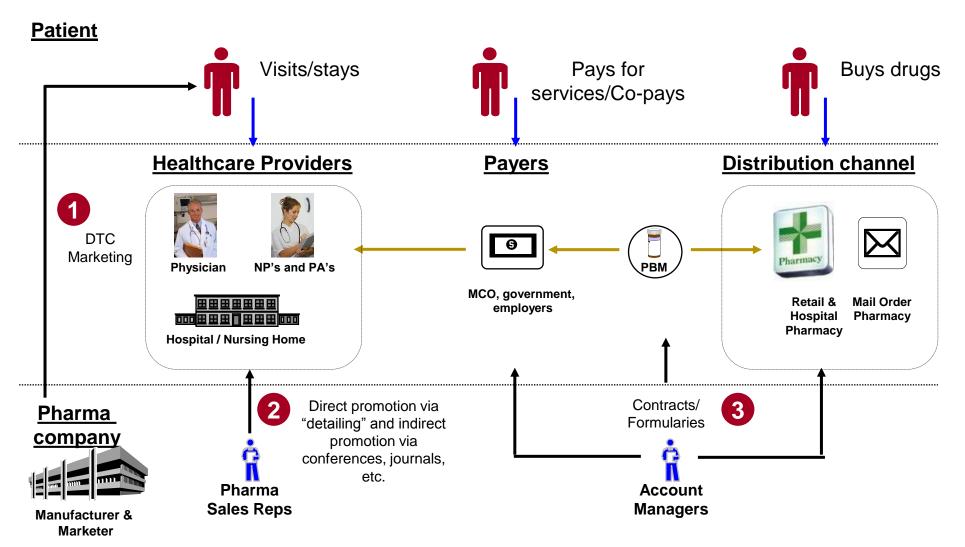


#### **Company Challenges**

- Identifying and assessing business opportunity (i.e. medical / disease potential) for target markets
- Prioritization of product indications
- Identify customer needs, define / quantify treatment gaps and unmet needs
- Explore future market dynamics and optimize marketing mix & ROI
- Deriving business insights from ever changing market environment
- Validate positioning, develop branding and test communications



# In the US, the pharmaceutical company promotes/ markets its products to the patient, provider and the payer





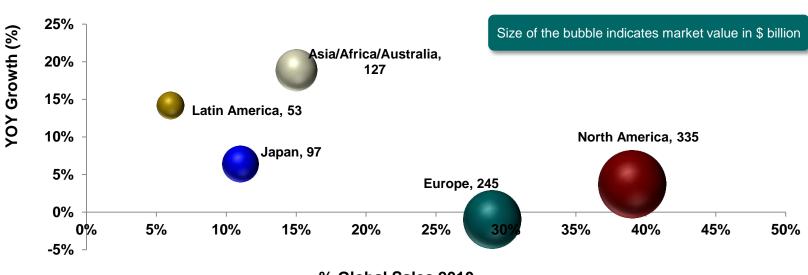
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#### **Global Pharmaceutical Market**





% Global Sales 2010

Global Market Size	2010	2009	2008	2007	2006
Total Market Size \$ billion	856	808	781	717	647
YOY Growth Rate	6%	3%	8%	9%	7%

Source: IMS Health Market Prognosis, March 2011



## **Top 20 Global Corporations, 2010**

Rank	Corporations	2010 Revenues (\$ billion)	2009 Revenues (\$ billion)
1	Pfizer	55.60	57.04
2	Novartis	46.80	38.46
3	Merck & Co	38.47	38.96
4	Sanofi-aventis	35.87	35.52
5	AstraZeneca	35.53	34.43
6	GlaxoSmithKline	33.66	34.97
7	Roche	32.69	32.76
8	Johnson & Johnson	26.77	26.78
9	Abbott	23.83	19.84
10	Lilly	22.11	20.31
11	Teva	21.06	15.95
12	Bayer	15.66	15.71
13	Amgen	15,53	15.04
14	Bristol-Myers Squibb	14.98	14.11
15	Boehringer Ingelheim	14.59	15.27
16	Takeda	12.98	14.34
17	Daiichi Sankyo	9.80	8.78
18	Novo Nordisk	9.72	8.59
19	Eisai	8.76	8.13
20	Otsuka	8,73	7.88



## **Global Top 20 Therapeutic Classes, 2010**

Rank	Therapeutic Classes	2010 Revenues (\$ billion)	2009 Revenues (\$ billion)
1	Oncology	55.97	52.37
2	Lipid Regulators	36.40	35.28
3	Respiratory Agents	35.93	33.60
4	Anti-diabetics	34.43	30.41
5	Anti-ulcerants	27.97	29.61
6	Angiotensin II Antagonists	26.63	25.21
7	Antipsychotics	25.41	23.25
8	Autoimmune Agents	20.71	17.96
9	Anti-depressants	20.22	19.42
10	HIV Antiviral	15.43	13.76
11	Platelet Aggregation Inhibitors	15,24	14.60
12	Vitamins & Minerals	12.97	11.95
13	Anti-epileptics	12.55	12.99
14	Narcotic Analgesics	12.01	11.23
15	Cephalosporin & combination	11.47	10.59
16	Non-narcotic Analgesics	10.99	10.91
17	Vaccines	10.97	10.69
18	Erythropoietin	10.60	10.83
19	Anti-rheumatic, Non-steroidal	10.15	9.67
20	Multiple Sclerosis	9.84	8.71



## **Global Top 20 Global Products, 2010**

Rank	Products	2010 Revenues (\$ billion)	2009 Revenues (\$ billion)
1	Lipitor (Pfizer)	12.66	13.29
2	Plavix (Sanofi-aventis)	8.81	9.10
3	Seretide (GSK)	8.47	8.10
4	Nexium (AstraZeneca)	8.36	8.24
5	Seroquel (AstraZeneca)	6.82	6.01
6	Crestor (AstraZeneca)	6.80	5.38
7	Enbrel (Amgen)	6.17	5.86
8	Remicade (J&J)	6.04	5.45
9	Humira (Abbott)	5.96	5.03
10	Zyprexa (Eli Lilly)	5.74	5.36
11	Avastin (Roche)	5.53	5.01
12	Singulair (Merck)	5.47	4.99
13	Abilify (BMS)	5.43	4.67
14	MabThera (Roche)	5.03	4.68
15	Lantus (Sanofi-aventis)	4.69	4.02
16	Aricept (Eisai)	4.43	4.02
17	Actos (Takeda)	4.31	4.12
18	Lovonex (Sanofi-aventis)	4.28	4.58
19	Herceptin (Roche)	4.16	3.91
20	Diovan (Novartis)	4.15	3.93



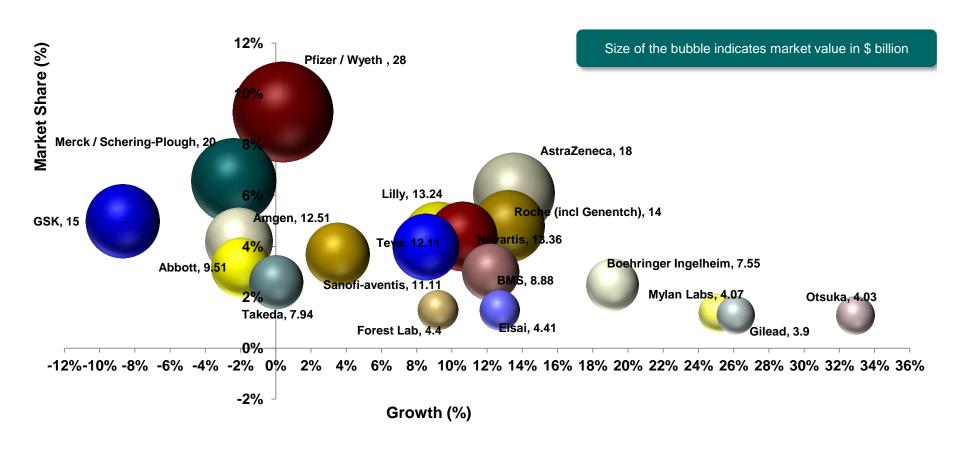
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### Many leading corporations with weak or negative growth

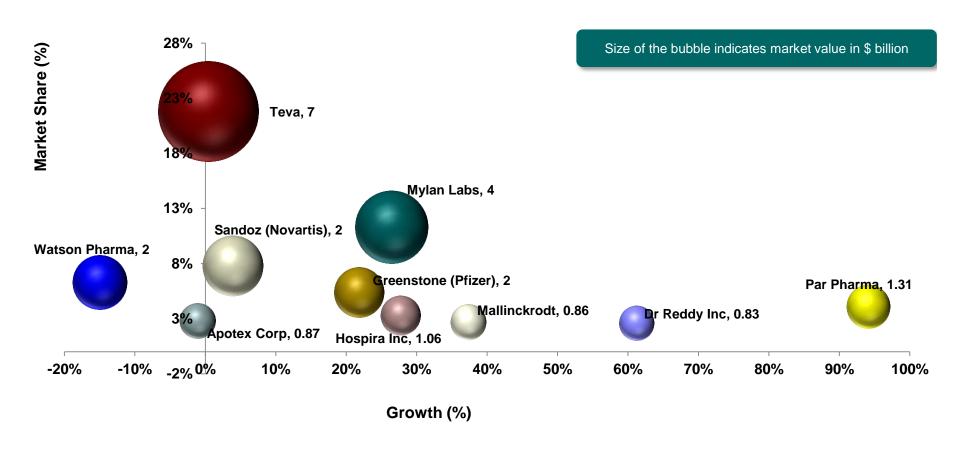
#### Sales Revenues - 2009





#### Sales growth for top 10 generic companies

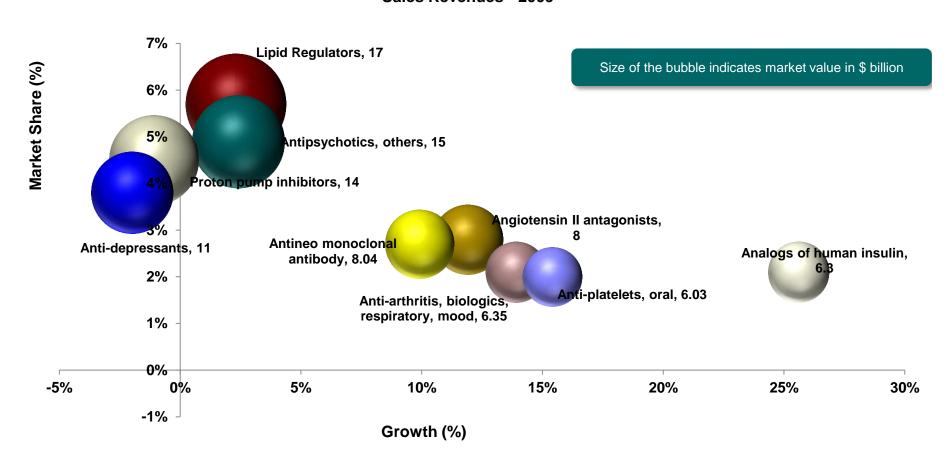
#### Sales Revenues - 2009





### Sales of leading therapy class

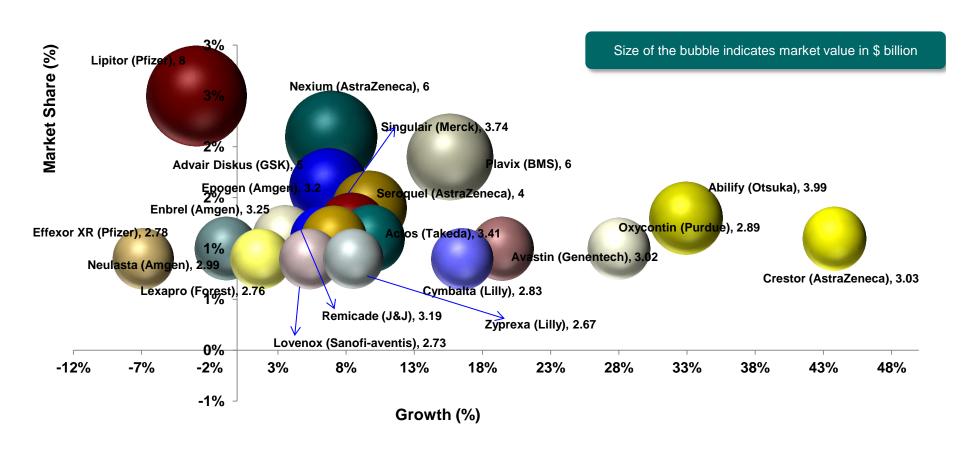
#### Sales Revenues - 2009





#### Sales of leading products

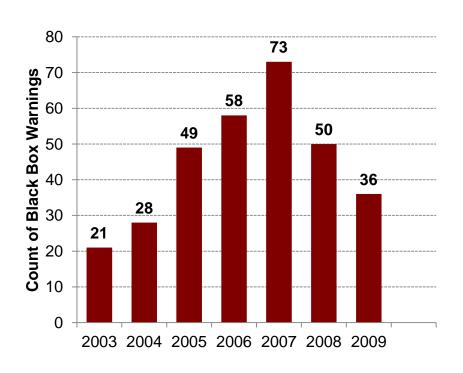
#### Sales Revenues - 2009



Source: The U.S. Pharmaceutical Market in Review and Preview, Doug Long VP Industry Relations IMS Health, March 9, 2010



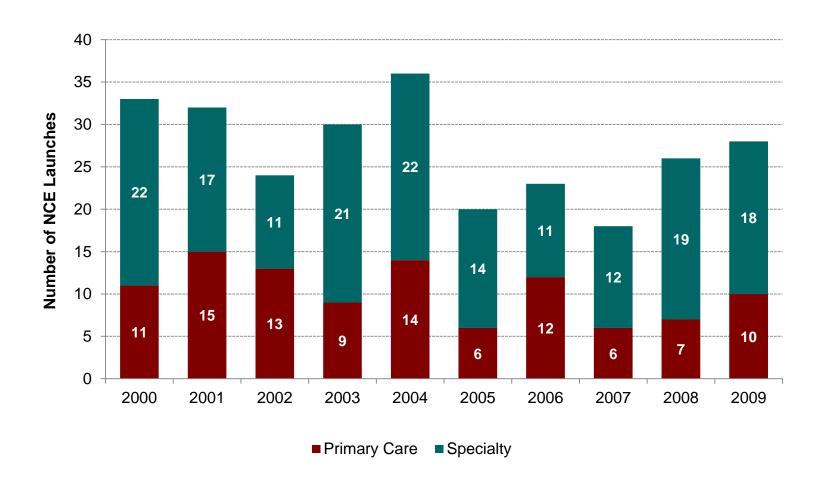
#### Black box warnings have declined after a peak in 2007



- Major boxed warnings in 2009
  - Raptiva (withdrawn in EU and US)
  - Chaxtix, Wellburtin for smoking cessation
  - Cimzia, Remicade for autoimmune disease

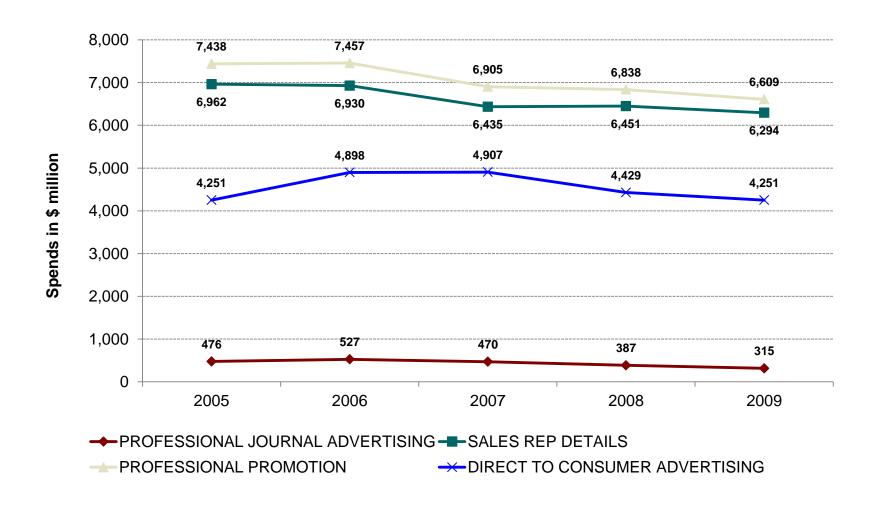


# NCE launches have reset at 20-30 per year and mainly specialist driven products





# Spending on consumer advertising drops along with other promotions methods





#### Thank You

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