

# US Trends, Issues, Outlook

STRATEGIC MANAGEMENT REVIEW 2006

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# 2005 Strategic Management Review

## The World Pharmaceutical Market

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# Agenda

- Industry overview
  - Global and regional trends
  - US
- Key trends and issues
- Performance overview
- Future outlook

# Converging forces are increasing the complexity of the global pharmaceutical market

## Growth patterns shifting

- Market growth slows especially in U.S.
- Growth more vigorous in emerging economies
- Specialist products strengthen
- Divergence of company performance

## Interaction between stakeholders

- Specifically between payers, regulators, physicians and patients
- Convergence of cost control and generic availability

## Market leaders under pressure

- Delivering sales and marketing productivity
- Replenishing the pipeline

# Ten key markets no longer drive growth but still command 81% of world volume

World Audited Market	MAT June 2006		% Growth Constant \$	
	US\$ Bil	% Share	2006	CAGR 01-05
Latin America	\$ 26.1	4.5 %	+ 12.9	+ 13.1
Asia/Africa/Australia	\$ 49.0	8.4 %	+ 10.8	+ 11.6
Japan	\$ 57.7	9.9%	+ 3.5	+3.2
Europe	\$ 173.5	29.8 %	+ 5.9	+ 8.9
North America	\$ 276.0	47.4 %	+5.6	+ 11.1
<b>Worldwide</b>	<b>\$ 582.3</b>	<b>100.0 %</b>	<b>+6.2</b>	<b>+ 9.6</b>
<b>10 Key Markets</b>	<b>\$ 470.0</b>	<b>81.0%</b>	<b>+5.4</b>	<b>+9.1</b>

Source: IMS Health MIDAS MAT June 2006

US growth slows due to adverse trends, but some optimism prevails for future

## ADVERSE TRENDS

Delayed NCES

More Aggressive Generics

COX2 Withdrawals

Stronger OTC

Safety Concerns

Cost Containment Intensifies

## SILVER LINING

Aging Population

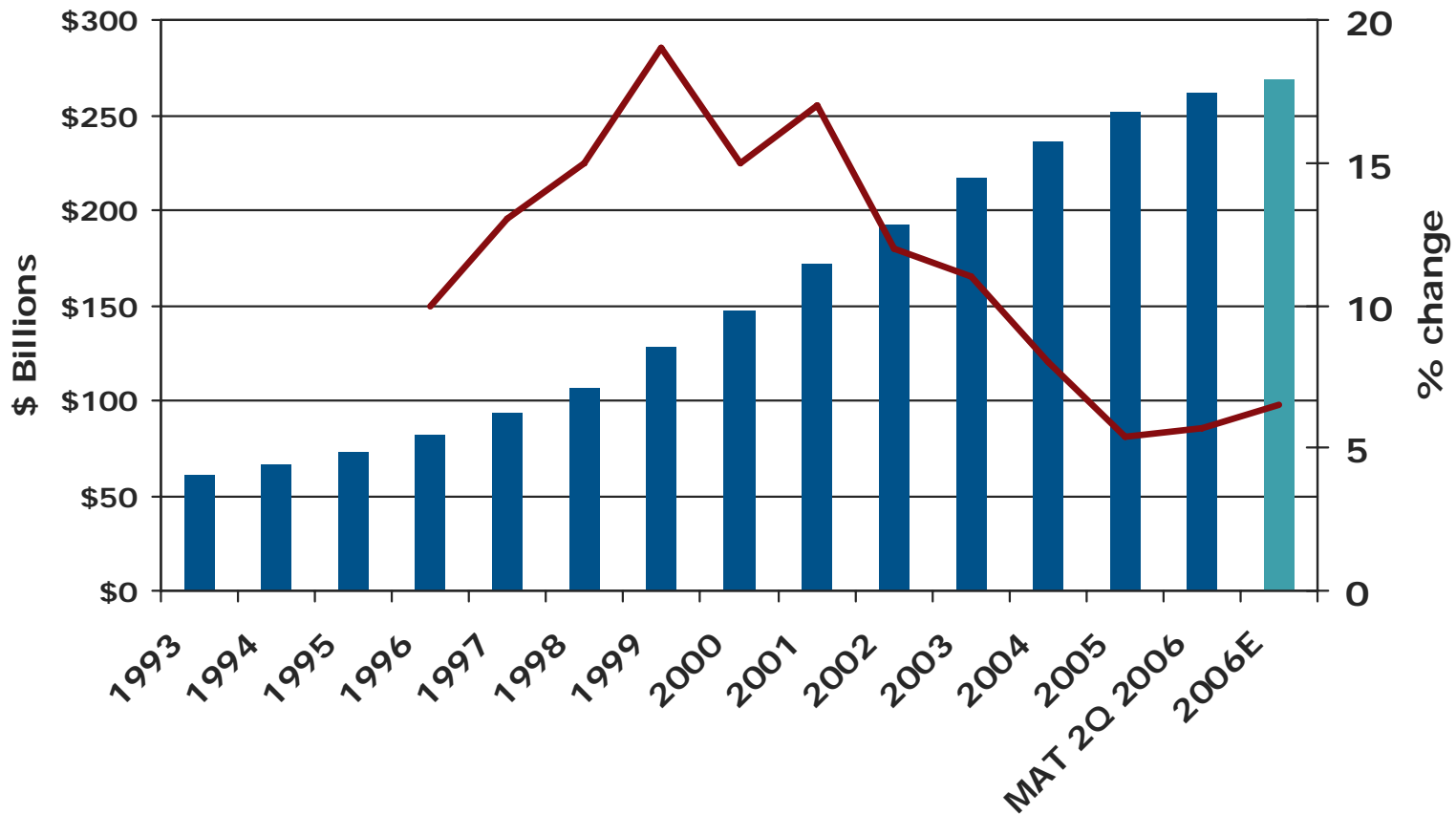
Stronger Flu Season (1Q05)

Medicare Modernization Act

Continued Innovation

Areas of Unmet Needs

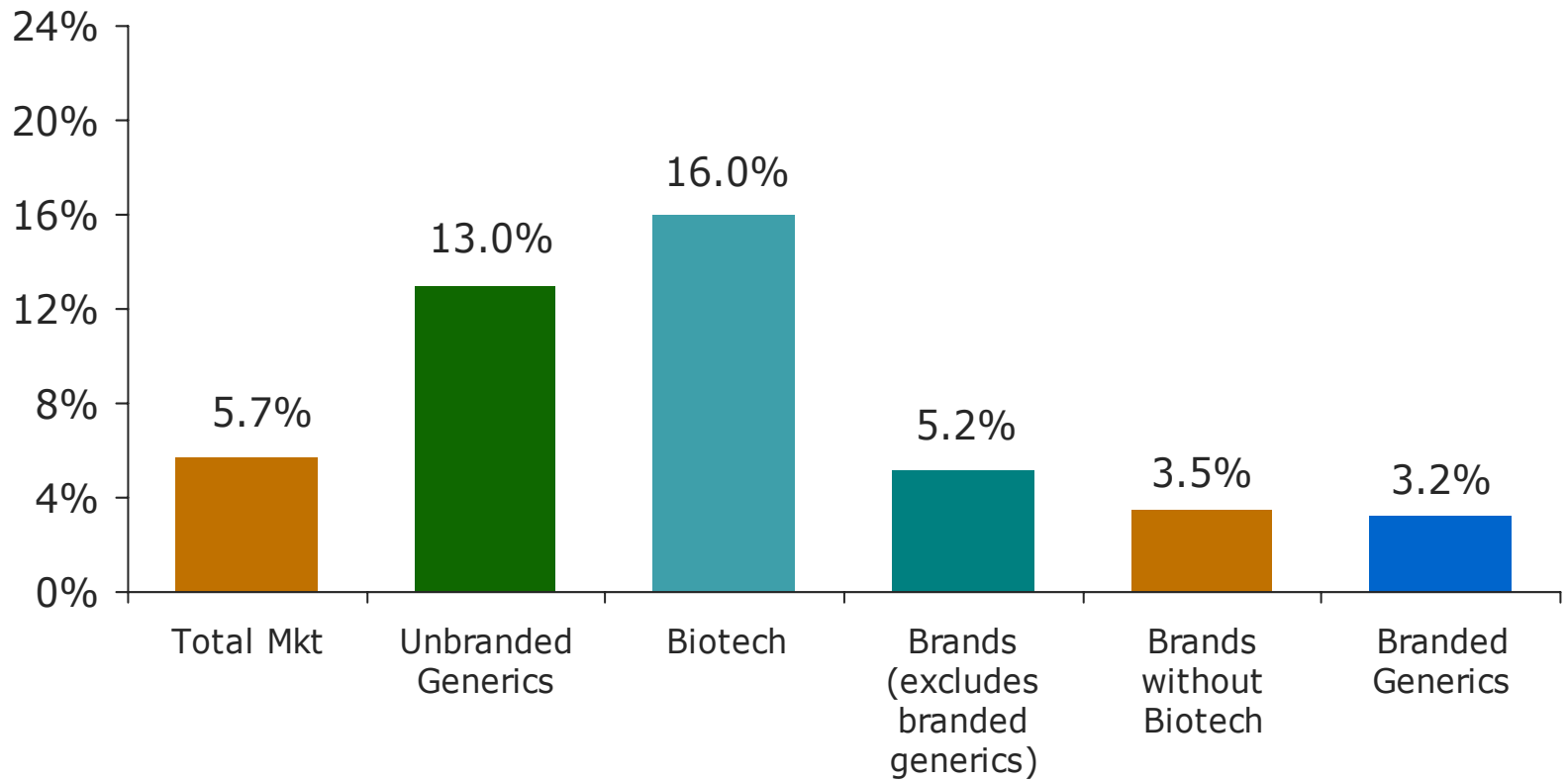
# The US market exceeds \$261B in year ending 2Q-06 2Q growth up to 5.7%, and upturn expected to continue



Source: IMS National Sales Perspective, June 2006

# US growth of biotech and generics still beats non-biotech brands and total market

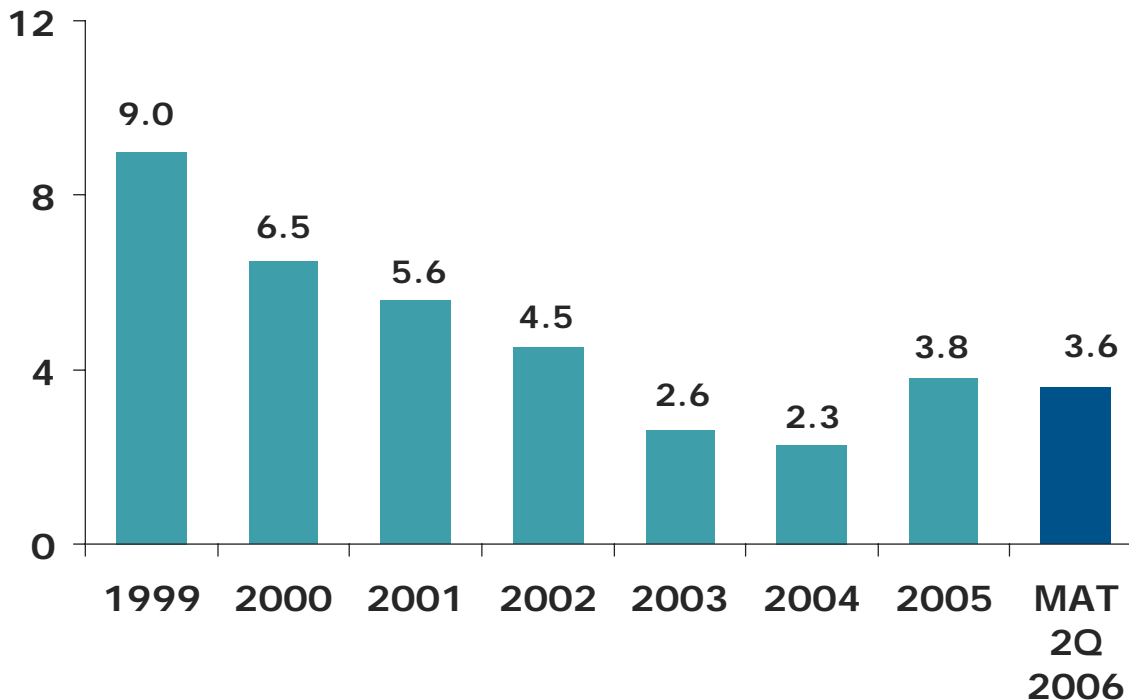
**Dollar Growth  
Twelve Months to 2Q 2006**



Source: IMS National Sales Perspectives™, June 2006

# US prescription growth stays strong despite weak flu season in 1Q 2006

## % Change in Total Prescriptions Dispensed



- Multi-tier co-pays
- Rx to OTCs
- Vioxx/Bextra withdrawal & other safety concerns
- Weak flu season in 1Q 2006
- Generics driving growth

Source: IMS National Prescription Audit (NPA) Plus, July 2006



# Key trends and issues



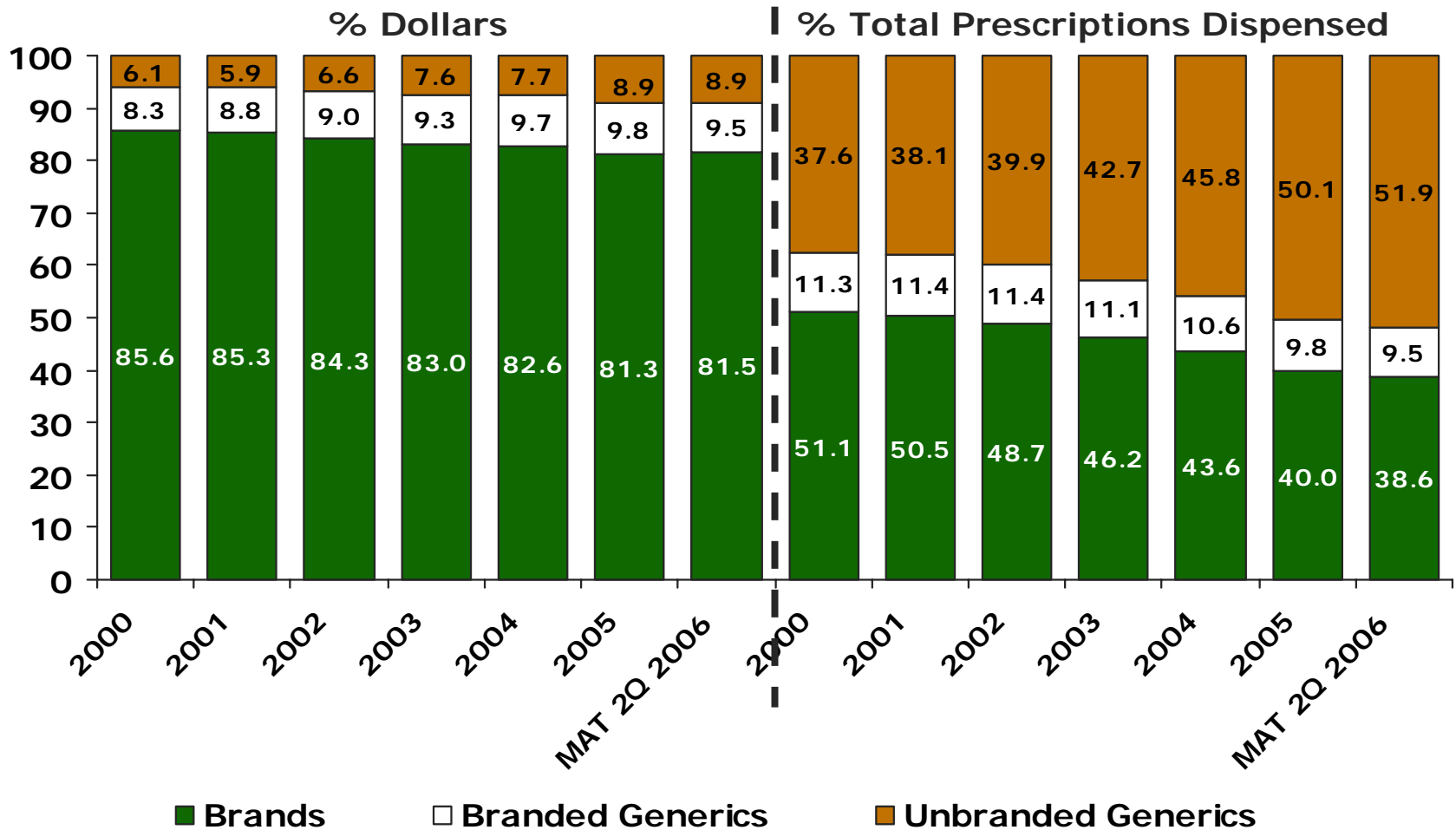
# Agenda

- Industry overview
- Key trends and issues
  - Generic trends
  - Medicare Modernization Act
  - New products/pipeline/future blockbusters
- Performance overview
- Future outlook

# Critical issues affecting generic markets over the next 10 years

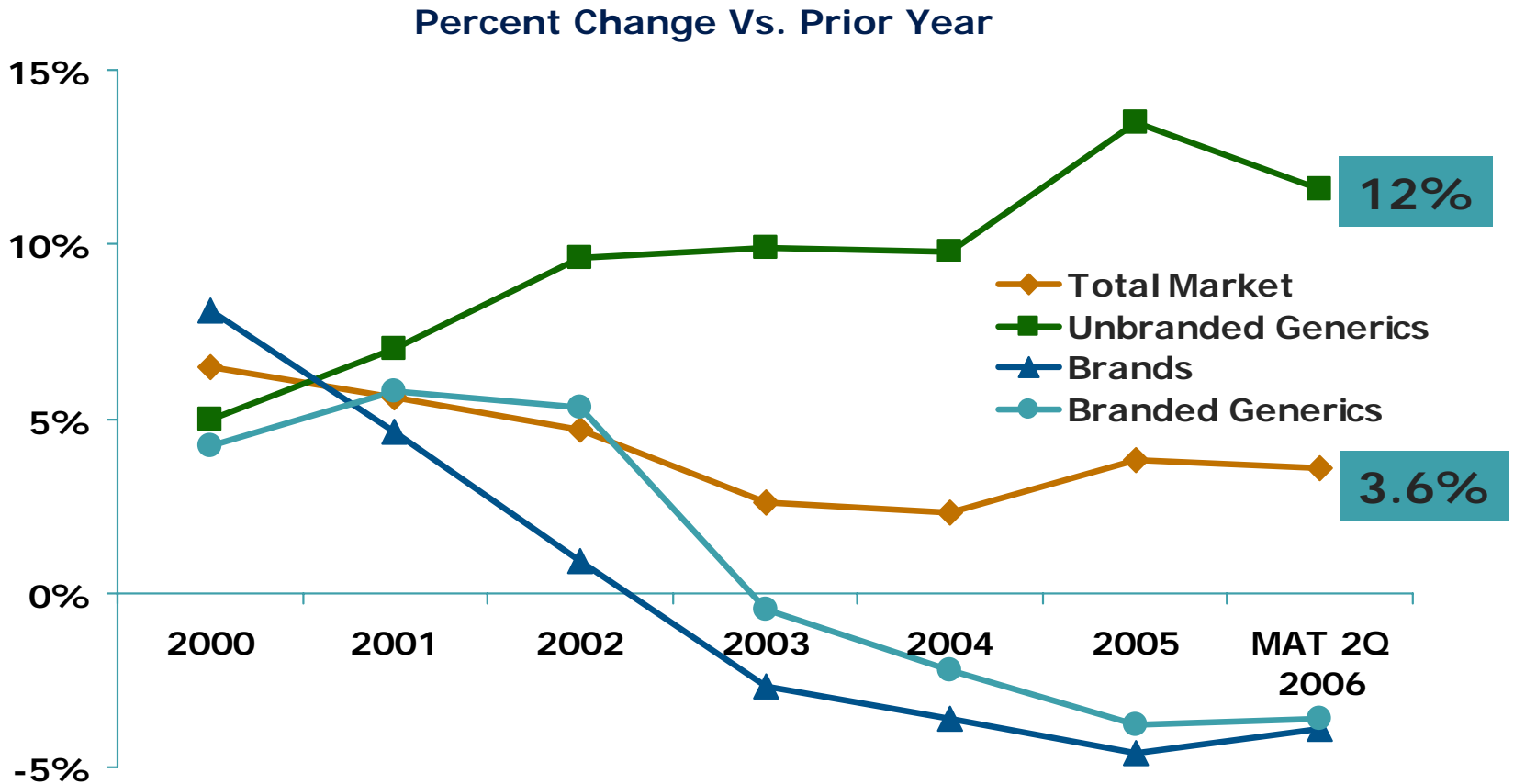
- Medicare Part D increases access
- Blockbusters increasingly seen in specialist-driven markets, which lead market growth
- Generic biotechs protocols, acceptability and competitiveness
- Weak primary care launches
- Price pressure encouraging consolidation
- 'Chindia'

# Generics continue to gain traction, while brands hold dollars



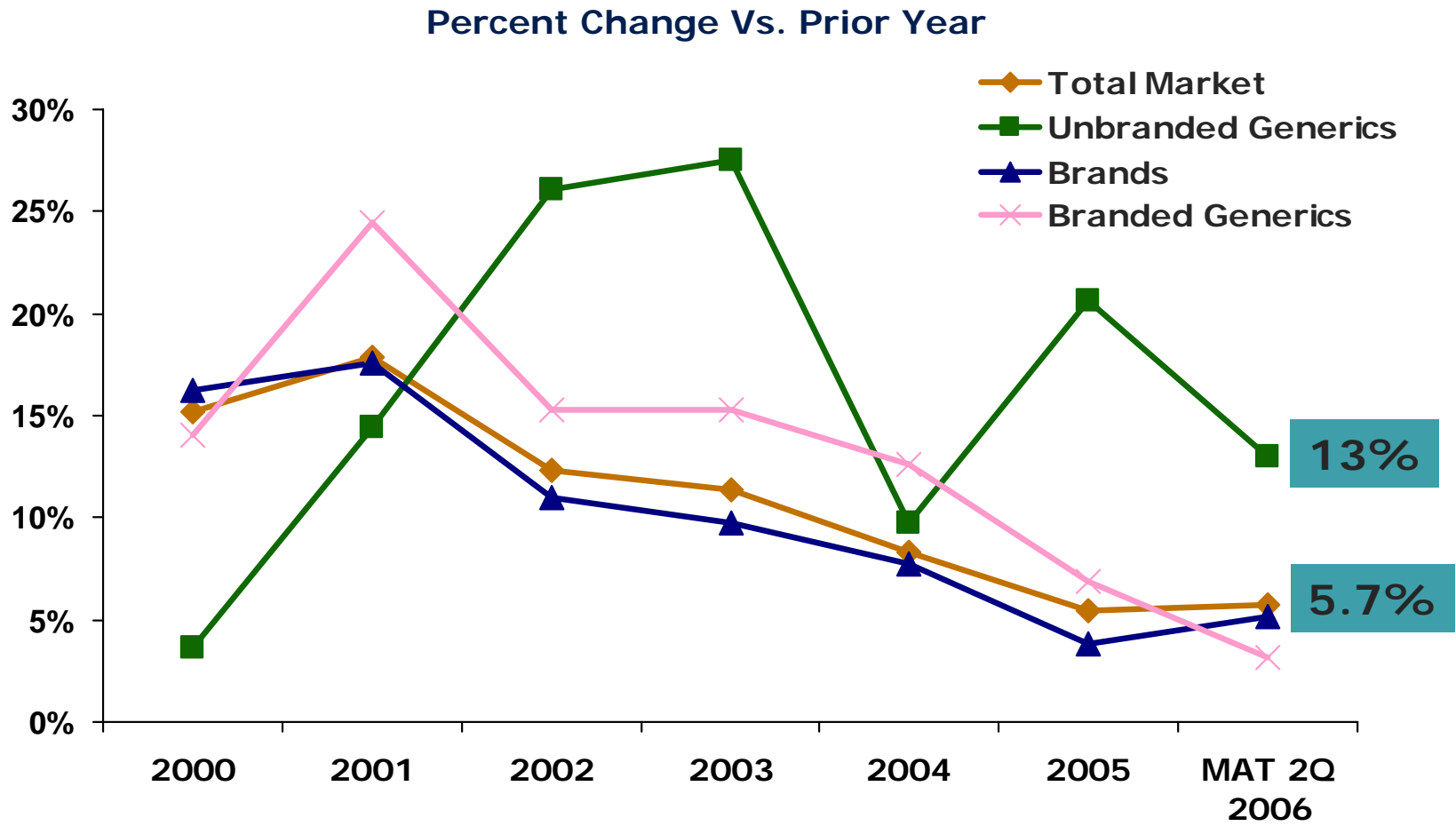
Source: IMS NPA™ Plus, IMS National Sales Perspectives™, August 2006

# Generics driving total market recovery in Rx growth



Source: IMS National Prescription Audit™ Plus, August 2006

# Growth of generic sales is volatile but above brands now for four years



Source: IMS National Sales Perspective, August 2006

# Together, Teva and Ivax create a generics giant controlling almost a fifth of the generics business

Sales of unbranded generics by leading corporations		Twelve months to 2Q 2006		
		US \$ Mil	% Share	% Change
<b>US Industry</b>		<b>23,294</b>	<b>100%</b>	<b>13.0%</b>
<b>1.</b>	<b>Teva (incl Ivax)</b>	<b>4,477</b>	<b>19.2</b>	<b>23%</b>
<b>2.</b>	<b>Novartis (incl Sandoz)</b>	<b>2,645</b>	<b>11.4</b>	<b>10%</b>
<b>3.</b>	<b>Mylan</b>	<b>1,981</b>	<b>8.5</b>	<b>9%</b>
<b>4.</b>	<b>Watson</b>	<b>1,504</b>	<b>6.5</b>	<b>9%</b>
<b>5.</b>	<b>Par</b>	<b>1,055</b>	<b>4.5</b>	<b>-6%</b>
<b>6.</b>	<b>Pfizer (incl Greenstone)</b>	<b>921</b>	<b>4.0</b>	<b>76%</b>
<b>7.</b>	<b>Boehringer Ingelheim</b>	<b>791</b>	<b>3.4</b>	<b>30%</b>
<b>8.</b>	<b>Actavis</b>	<b>660</b>	<b>2.8</b>	<b>-13%</b>
<b>9.</b>	<b>Hospira</b>	<b>648</b>	<b>2.8</b>	<b>16%</b>
<b>10.</b>	<b>Baxter</b>	<b>534</b>	<b>2.3</b>	<b>-22%</b>
<b>Top 10</b>		<b>15,216</b>	<b>65.3</b>	<b>12.6%</b>

Source: IMS National Sales Perspective, August 2006

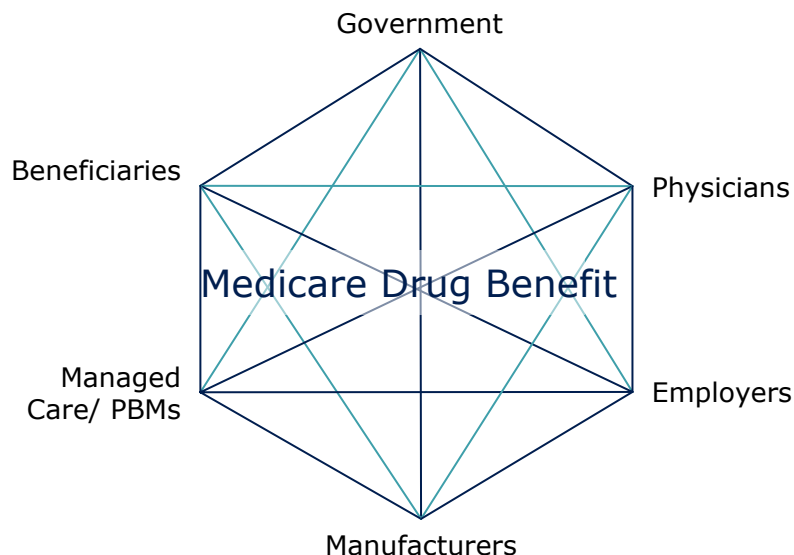
# Mallinckrodt and Endo show strong growth

Sales of unbranded generics by leading corporations		Twelve months to 2Q 2006		
		US \$ Mil	% Share	% Change
11.	Apotex	598	2.6%	11%
12.	Barr	573	2.5%	19%
13.	Mallinckrodt	564	2.4%	32%
14.	Ranbaxy	402	1.7%	0%
15.	American Bioscience	387	1.7%	-1%
16.	Taro	308	1.3%	-4%
17.	Andrx	238	1.0%	-22%
18.	URL/Mutual	295	1.3%	4%
19.	Pliva	301	1.3%	16%
20.	Endo	320	1.4%	154%
<b>Top 20</b>		<b>19,201</b>	<b>82.4%</b>	<b>12.6%</b>

Source: IMS National Sales Perspective, August 2006

# The Medicare drug benefit is reshaping the Rx marketplace

## Medicare drug benefit stakeholders and system dynamics



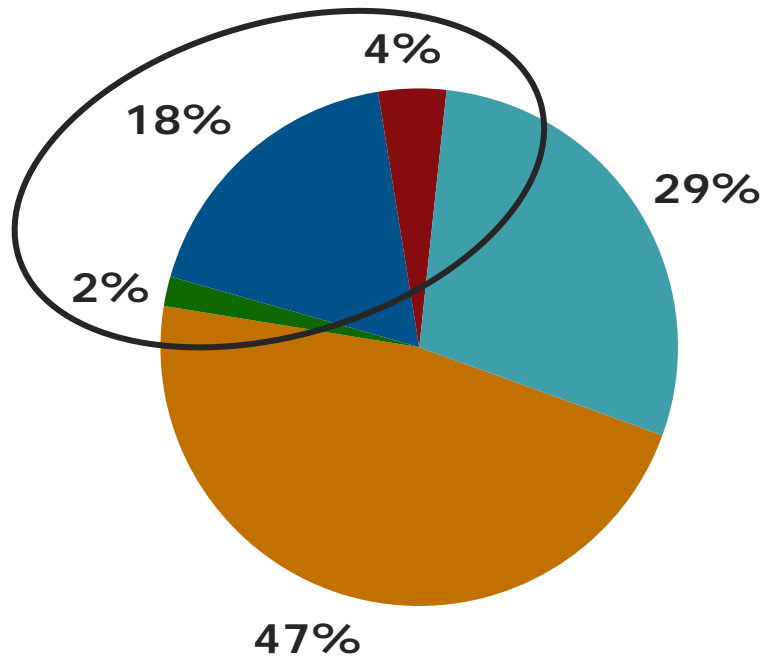
### Progress:

- Enrollment
- Managed care clamors for a piece of the pie
  - PDPs – 80 orgs, 2000 plans
  - MA – 168 orgs, 1000 plans
- Medicare Part D Uptake
- Potential future scenarios

# Part D turns the government into the largest purchaser of prescription drugs

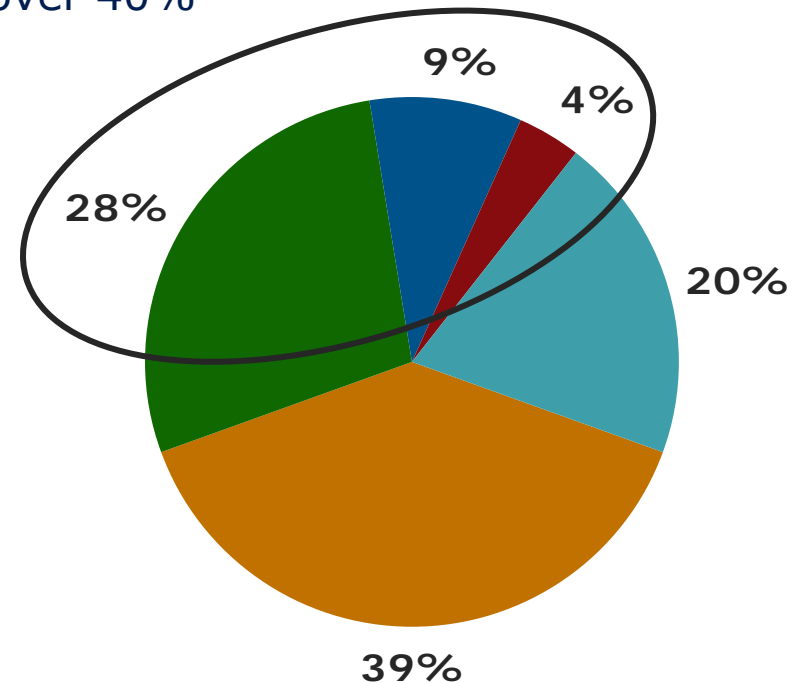
## Source of Rx Spend, 2005

Today, the government accounts for less than 25% of Rx spending



## Source of Rx Spend, 2006

In six months, the government proportion of Rx spend grows to over 40%

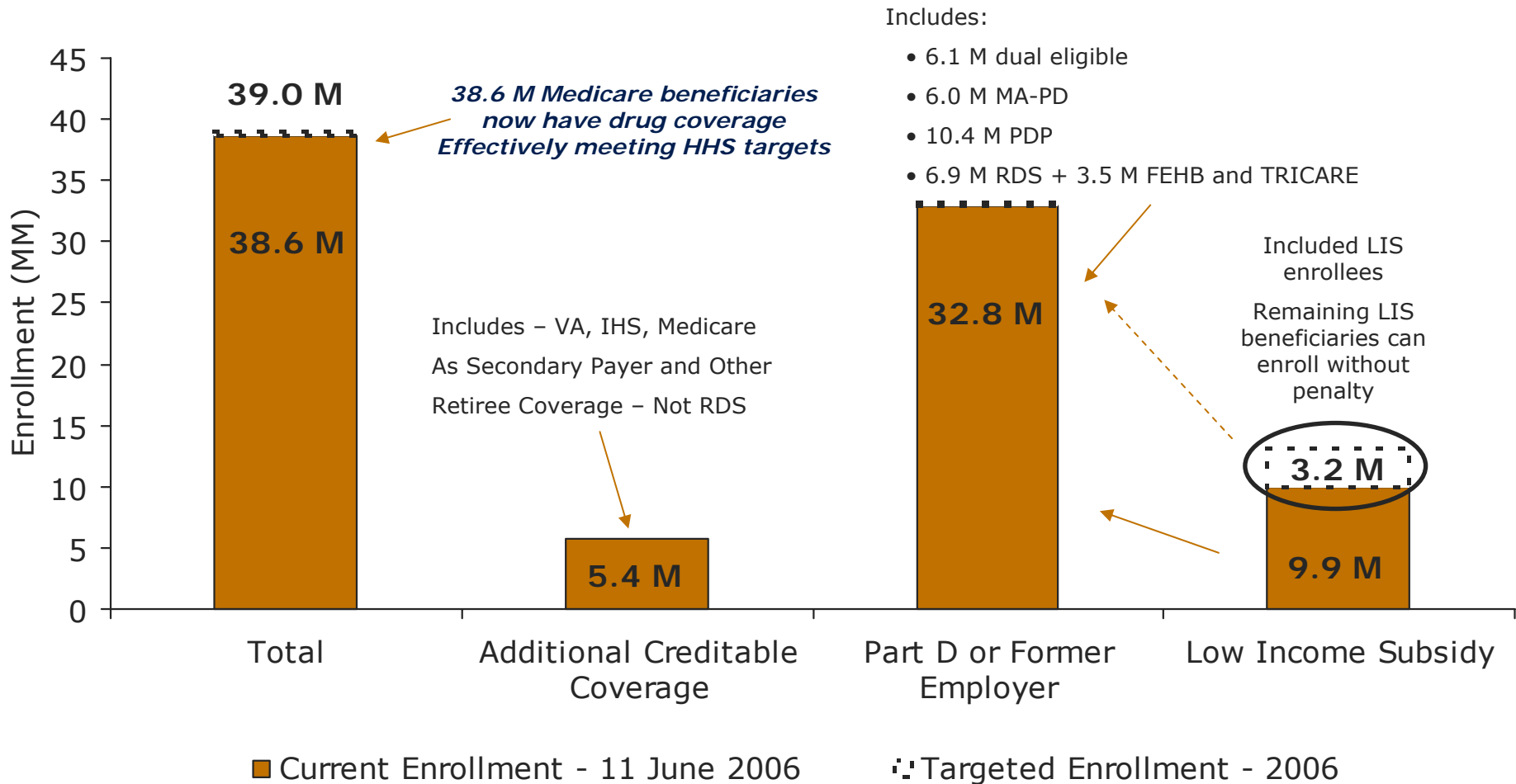


Source: Center for Medicare & Medicaid Services, Office of the Actuary, National Health Statistics Group, 2005

# Enrollment close to CMS estimates as of June 11

## Who's new and how sick, still unknown

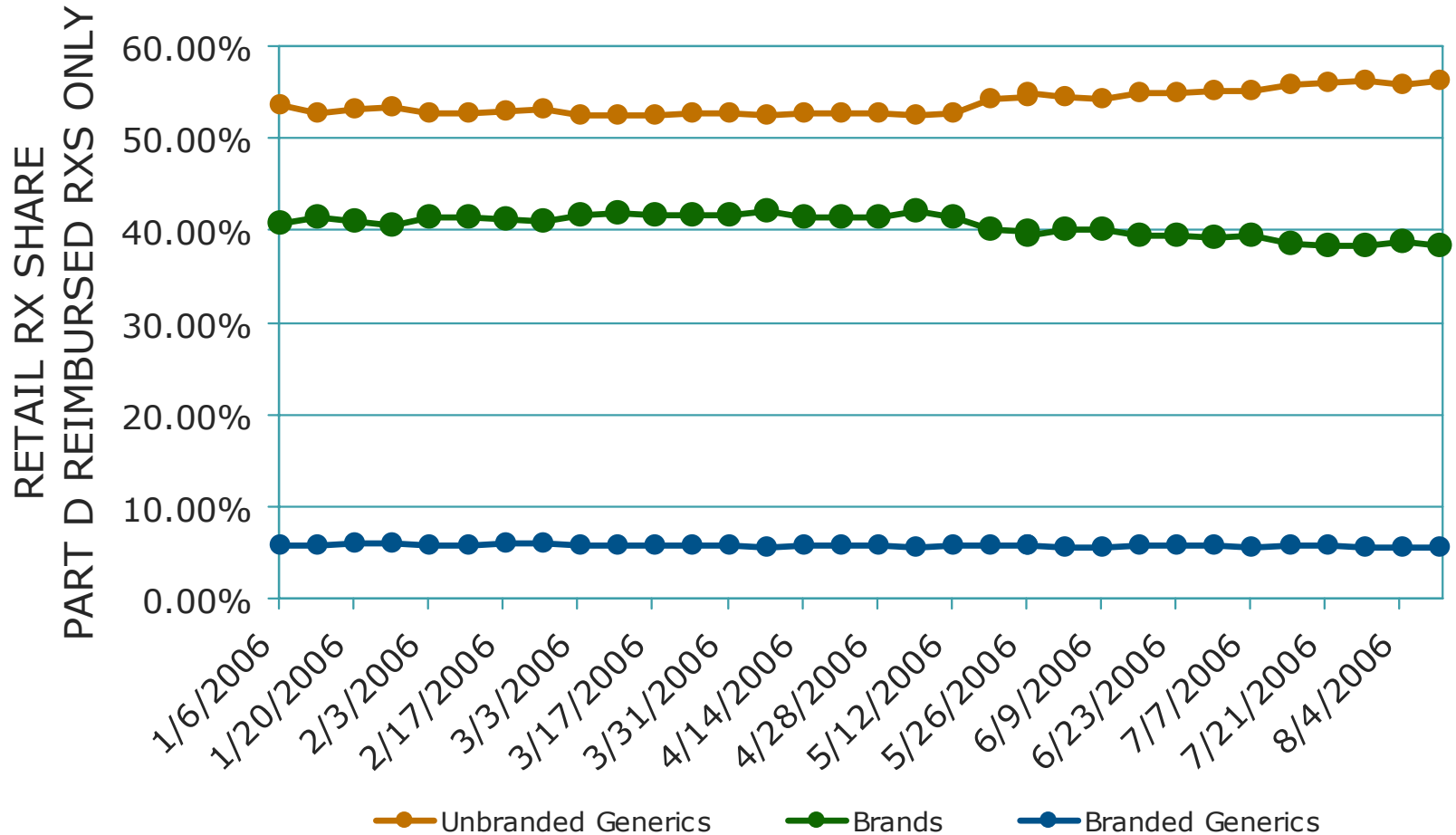
### Current enrollment and targets by beneficiary segment



Source: CMS - data as of June 11

# Unbranded generics share of Part D Rxs is increasing

## Generic pravastatin introduced in May and simvastatin in June



Source: IMS Weekly Medicare Part D Uptake Report, August 17, 2006

# Medicare Part D

## Looking Forward to 2010

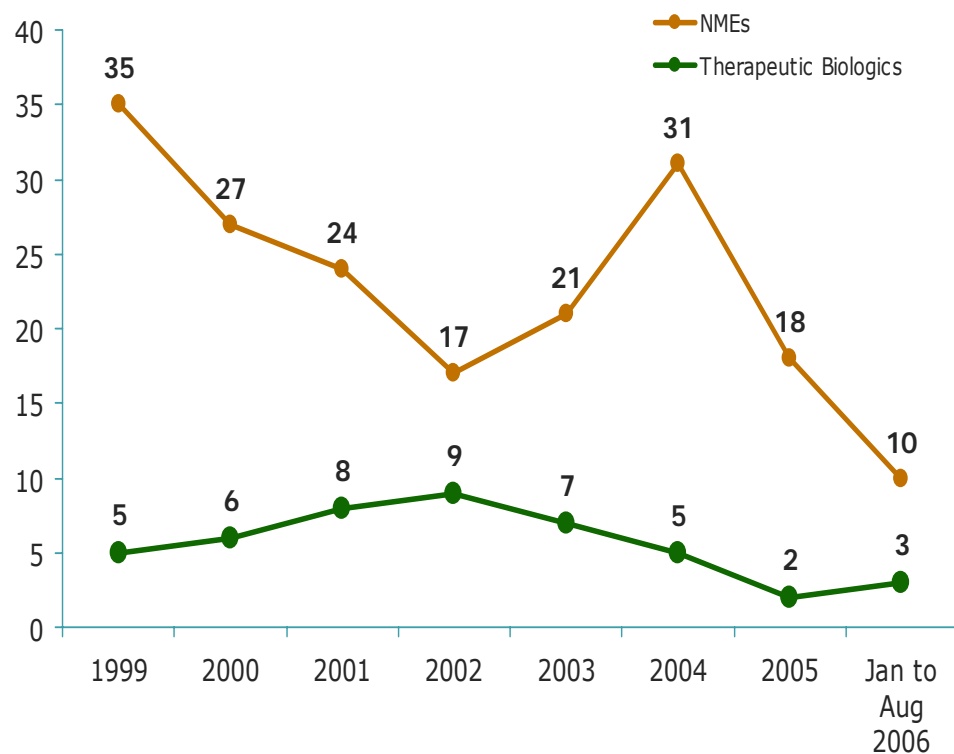
- *What We See*
  - **Costs exceed administration estimates**
  - **Providers consolidate**
  - **Plans simplify**
  - **Patients fight the donut hole**
  - **Physicians will opt to prescribe for the “dominant” plan**
  - **Part D and Part B increasingly overlap**
  - **Retirees migrate – Not by choice**
  - **Surviving plans are happy, but what about consumers?**



Searching for growth...pipeline...new products...blockbuster performances



# FDA approvals to August 2006 beat pace of 2005



- As of August 31, 2006 there were 10 new molecular entities and 3 novel biologics approved
- These 13 novel agents surpass the 11 approvals for 1st nine months of 2005; but lag behind 2004 (20 NMEs cleared in 1<sup>st</sup> 3 quarters)
- NME approvals include 1 for a new OTC product, L'Oreal's sunscreen (Anthelios SX)
- 3 NMEs for oncology; 2 NMEs for nervous disorders
- So far, Pfizer leads with 3 approvals
- Note: FDA does not consider Exubera, Gardasil or Symbicort new molecular entities

Source: The Pink Sheet Daily, Sept 15, 2006; Market Insights Analysis

## Top launches in 2006: four of the top 10 by monthly sales are brands

	Product	Mfr	Month	Avg Mthly Sls 2006 \$(M) to May
1.	Pravastatin sod	Teva	Apr-06	29.7
2.	Fluticasone prop	Par	Feb-06	27.5
3.	Pravastatin sod	Watson	Apr-06	20
4.	Fluticasone prop	Roxane	Mar-06	16.3
5.	Ultram ER	J&J	Feb-06	6.8
6.	Avandaryl	GSK	Jan-06	4.1
7.	Orencia	BMS	Feb-06	3.4
8.	Amitiza	Takeda	Mar-06	2.6
9.	Desmopressin Ace	Teva	Feb-06	2.5
10.	Lisinopril	Lupin	Feb-06	1.8

Source: IMS Health, National Sales Perspective, July 2006



# Performance overview



# Agenda

- Industry Overview
- Key Trends and Issues
- Performance Overview
- Future Outlook

# Amgen continues to move up, and Roche enters the top 10

Leading Corporations	Twelve months to 2Q 2006		
	US \$ Mil	% Share	% Change
<b>US Industry</b>	<b>261,368</b>	<b>100.0</b>	<b>5.7%</b>
1 Pfizer	26,871	10.3	-9%
2 GlaxoSmithKline	20,847	8.0	8%
3 Merck	16,713	6.4	12%
4 Johnson & Johnson	15,744	6.0	-5%
5 AstraZeneca	13,796	5.3	10%
6 Amgen	13,140	5.0	20%
7 <b>Novartis</b> (incl Sandoz)	<b>12,837</b>	<b>4.9</b>	<b>7%</b>
8 Sanofi-Aventis	10,675	4.1	-2%
9 Lilly	8,841	3.4	4%
10 Roche (incl. Genentech)	8,502	3.3	24%
<b>Top 10</b>	<b>147,967</b>	<b>56.7</b>	<b>4.2%</b>

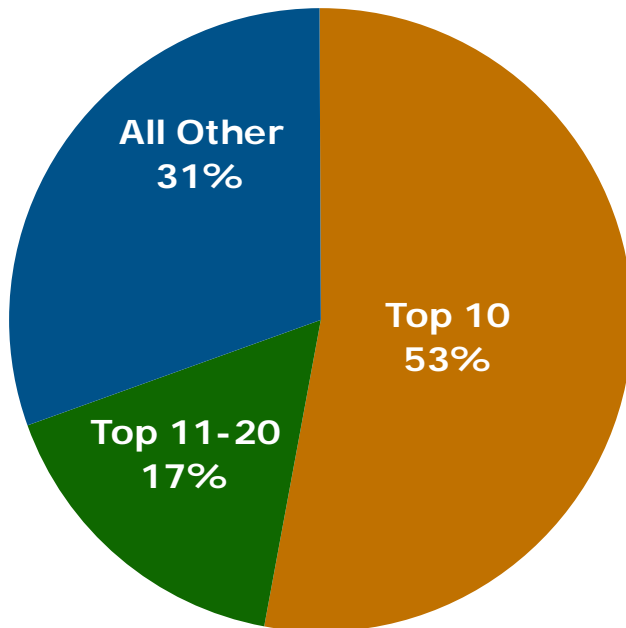
Source: IMS National Sales Perspective, June 2006

Roche/Genentech join the top 10 & leading players account for 43% of growth

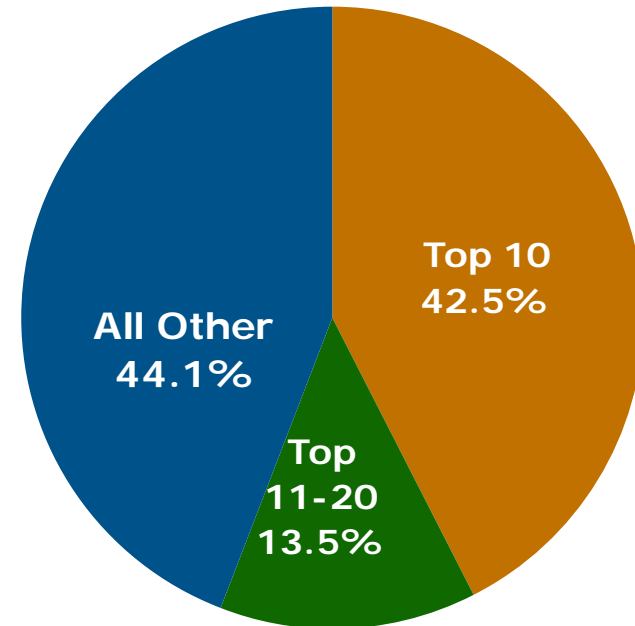
Mid-sized and smaller companies gain with 44%

**Contribution to Growth  
Percentage of Absolute Change**

2002



MAT 2Q 2006



Source: IMS National Sales Perspective, June 2006

# Generic manufacturers dominate the top 10 on a total prescription basis through MAT June 2006

Leading Corporations	12 Months ending June 2006		
	TRxs (Mil)	% Share	% Change
<b>US Industry</b>	<b>3,724</b>	<b>100.0</b>	<b>3.6 %</b>
1. Teva (incl. Ivax)	393	10.6	17%
2. Pfizer	314	8.4	- 9 %
3. Novartis (incl. Sandoz)	292	7.8	8 %
4. Mylan	239	6.4	8 %
5. Watson	195	5.2	8 %
6. Merck	138	3.7	10 %
7. GlaxoSmithKline	129	3.5	- 3 %
8. AstraZeneca	115	3.1	8 %
9. Mallinckrodt	104	2.8	24 %
10. Actavis	89	2.4	-1 %
<b>Top 10</b>	<b>2,008</b>	<b>53.9</b>	<b>6.2 %</b>

Source: IMS National Prescription Audit Plus, July 2006; Novartis includes Sandoz and Eon

## Lipids are still the leading class while cancer therapies and insulin show strong growth

Leading Classes	Twelve months to 2Q 2006		
	US \$ Mil	% Share	% Growth
<b>US Industry</b>	<b>261,368</b>	<b>100%</b>	<b>5.7%</b>
1 Cholesterol Reducers	19,555	7.5	10%
2 Proton Pump Inhibitors	13,264	5.1	2%
3 Anti-psychotics	10,964	4.2	9%
4 Anti-depressants	10,474	4	-1%
5 Erythropoietins	9,329	3.6	10%
6 Seizure Disorders	8,272	3.2	-1%
7 Angiotensin II Antagonists	5,380	2.1	12%
8 Monoclonal Antibodies	5,029	1.9	59%
9 Calcium Blockers	4,650	1.8	1%
10 Insulin Sensitizers	4,531	1.7	21%
<b>Top 10</b>	<b>91,448</b>	<b>35.0%</b>	<b>8.3%</b>

Source: IMS National Sales Perspective, June 2006

# Lipitor® continues on top; Nexium®, Advair Diskus®, Plavix®, and Aranesp® moving up

Products	Company	Twelve months to 2Q 2006		
		US \$ Mil	% Share	% Growth
<b>US Industry</b>		<b>261,368</b>	<b>100%</b>	<b>5.7%</b>
1 Lipitor®	Pfizer	8,572	3.3	5%
2 Nexium®	AstraZeneca	4,776	1.8	16%
3 Zocor®	Merck	4,730	1.8	4%
4 Advair Diskus®	GSK	3,782	1.4	14%
5 Plavix®	BMS	3,774	1.4	14%
6 Prevacid®	TAP	3,707	1.4	-4%
7 Aranesp®	Amgen	3,344	1.3	42%
8 Zolofit®	Pfizer	3,103	1.2	-1%
9 Epogen®	Amgen	3,070	1.2	2%
10 Enbrel®	Amgen	2,918	1.1	19%
<b>Top 10</b>		<b>41,776</b>	<b>16.0%</b>	<b>9.2%</b>

Source: IMS National Sales Perspective, June 2006

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- Industry overview
- Key trends and issues
- Performance overview
- **Future outlook**
  - Pivotal Events in 2006
  - Five Year Outlook

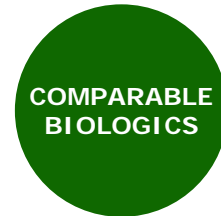
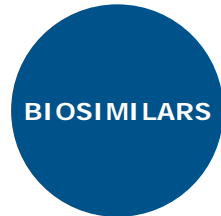


# Future Outlook



# Biosimilars expected to enter strategic markets in 2008-2010:

## Humatrope launches in Australia at 25% discount



- Recent FDA approval of Omnitrope provides small opening for US market
- Biogenerics already being marketed in China, E. Europe, India and S. America
- Generic Procrit approved in Croatia, EU states may follow
- Pfizer eyes market potential, looks for partners

### • Key players include

- |               |                |            |         |
|---------------|----------------|------------|---------|
| – BioPartners | • LG Chemicals | • Roemmers | • Stada |
| – Cangene     | • Pliva        | • Sandoz   | • Teva  |
| – GeneMedix   | • Rein Biotech | • SciGen   |         |

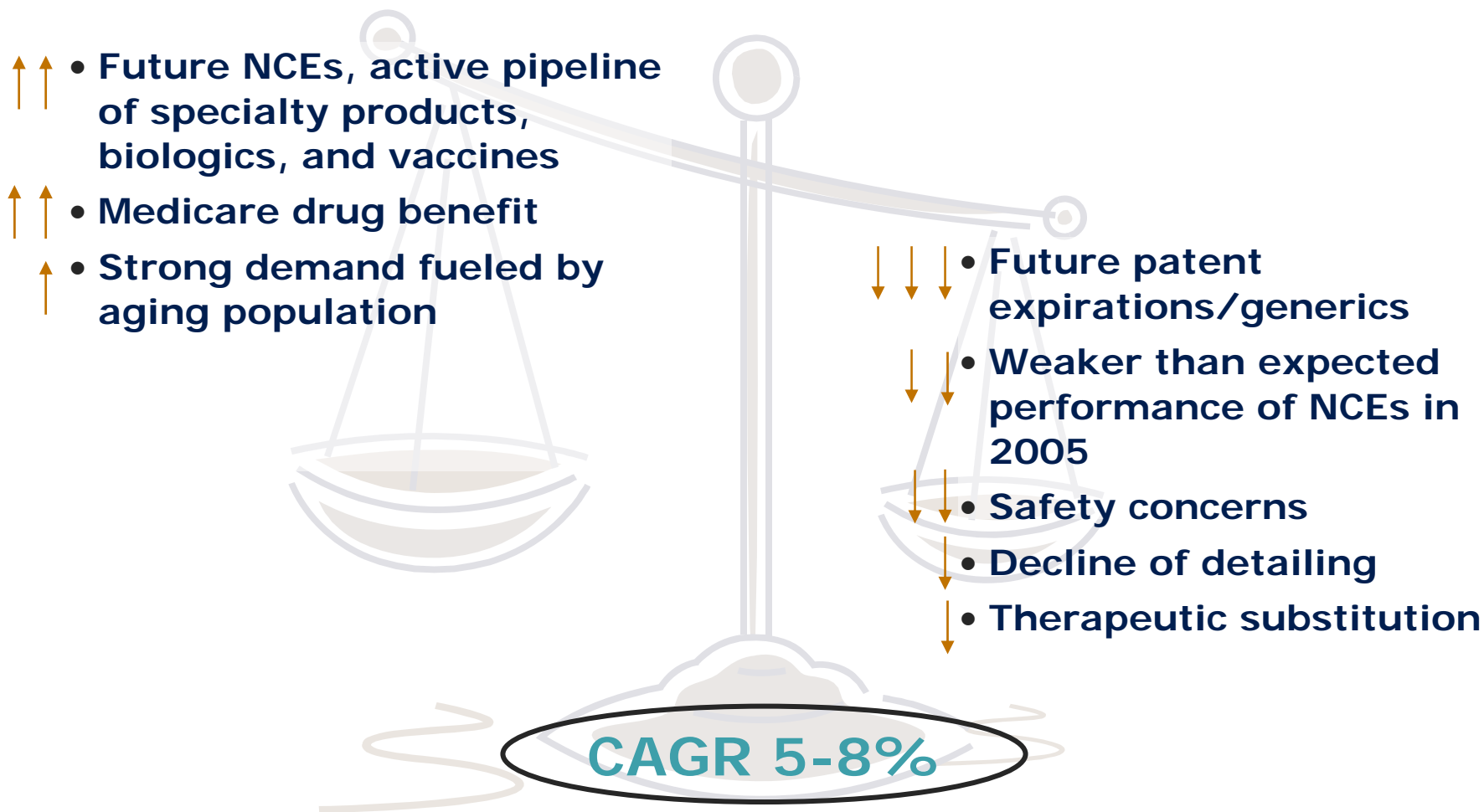
## ...But biologics brands may fare better than pharmacologicals

- High cost of materials and production will limit discounting, and hence brand share erosion
- More scope to leverage survival strategies
  - Extend exclusivity period through law ?
  - Improve manufacturing efficiency
  - Create differentiation
  - Control manufacturing capacity
  - Play the quality and safety card

**No longer *if* biogenerics approved, but *when*...**

**2008 - 2010?**

# US market five year outlook 2006-2010: opportunities and challenges



*Thank you!*

Diana Conmy, Corporate Director, Market Insights  
IMS Health

