

# Eight Thoughts On Biosimilars

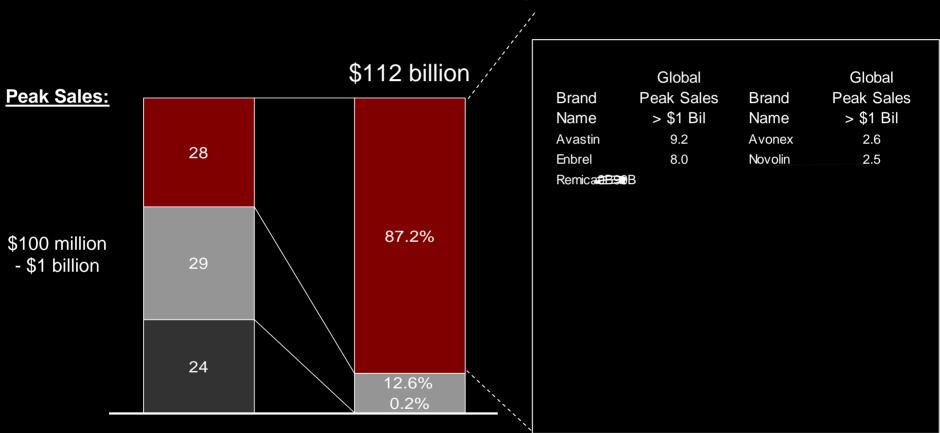
SCB Biosimilars Conference Call

December 9, 2008

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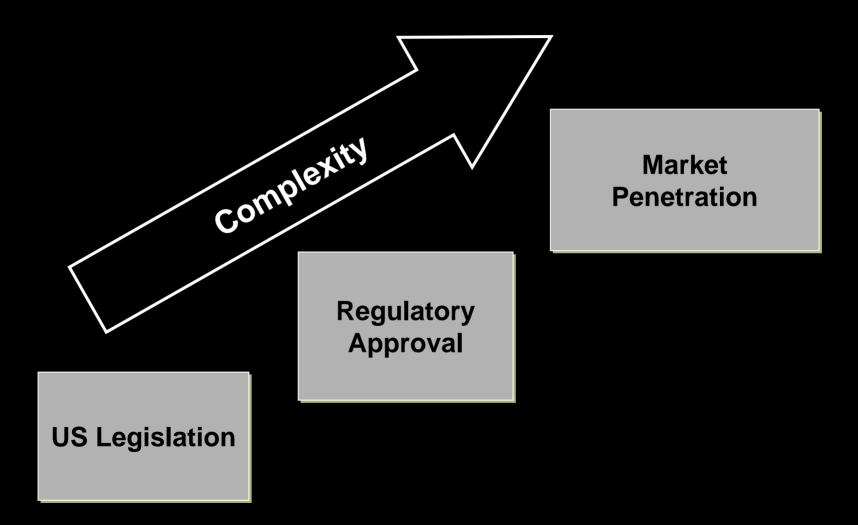
SEE DISCLOSURE APPENDIX OF THIS REPORT FOR IMPORTANT DISCLOSURES AND ANALYST CERTIFICATIONS

# **Biologics: Too Big To Ignore**



28 Molecules make up 87.2% of value of biologics

### Ready, Set...For A Marathon, Not A Sprint



Source: Bernstein estimates and analysis

## **Eight Thoughts On Biosimilars**

- **! US legislation: Details Matter**
- ! The FDA: The unknown regulatory hurdle
- ! Market structure: PBM as the king-makers?
- ! Costs: Time and money, capacity at a premium
- ! Targets: Now, Later and Never
- ! Market share: Benchmarks and wrinkles
- ! Market participants: The usual and unusual suspects
- ! Impact on the Generic Group: Is It All Worth It?

# US Legislation: Watch For Details To Determine Market Structure

Approval Requirements	<ul> <li>Agreement: FDA will determine requirements case-by-case</li> <li>Definition of Biologic still open (vaccines? DNA? mixtures?)</li> <li>Innovators want to tack on process requirements (guidance docs, clinical trial, all patent resolution)</li> <li>Generics want requirements for timely FDA actions (PDUFA dates, citizen petition)</li> </ul>	
Approval Standards	• <sup>c</sup>	

## The FDA – Mixed Signals

#### Agency is clearly interested in Biosimilars

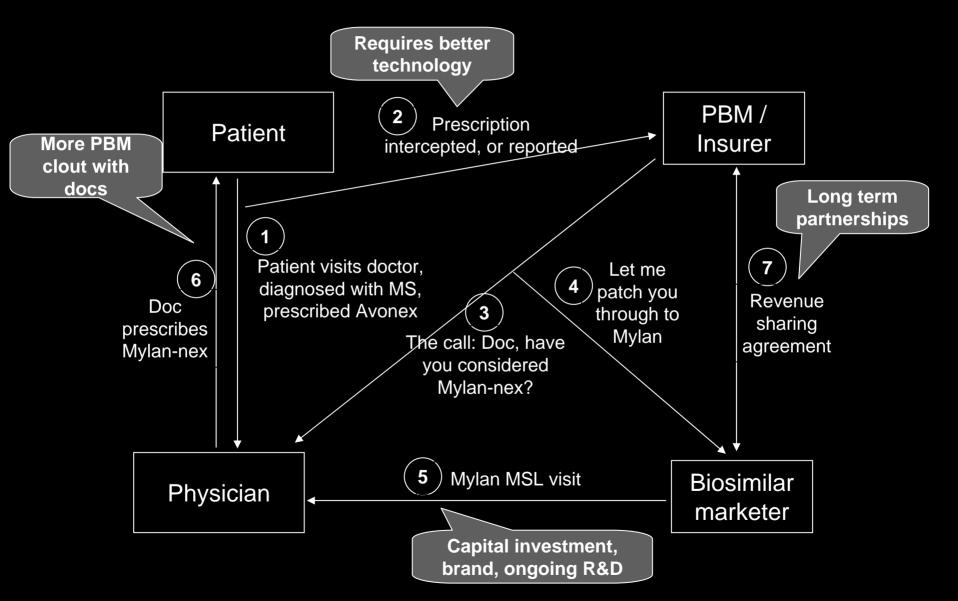
Engaged

- Involved in debate
- Proactively divided reviewing responsibilities

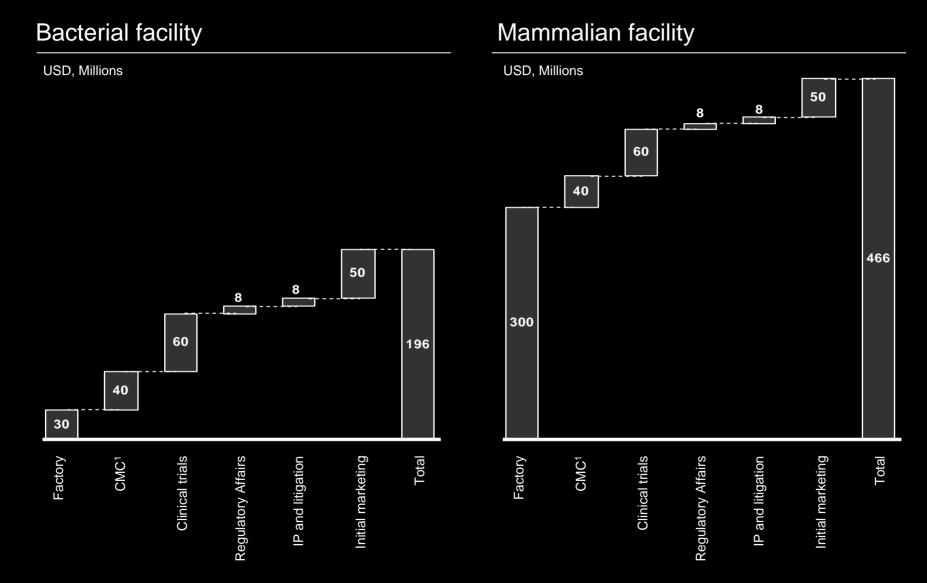
hGH

• Approved under 505j, may have received in

# Market Structure – PBM As The King-Makers? Winner Takes All Markets?



## **Costs (I): Not A Low Cost Proposition**



1 Chemistry, Manufacturing and Controls

Source: Corporate reports and Bernstein estimates and analysis

## **Costs (II): The CapEx Dilemma**

Building mammalian capacity makes CFO uneasy

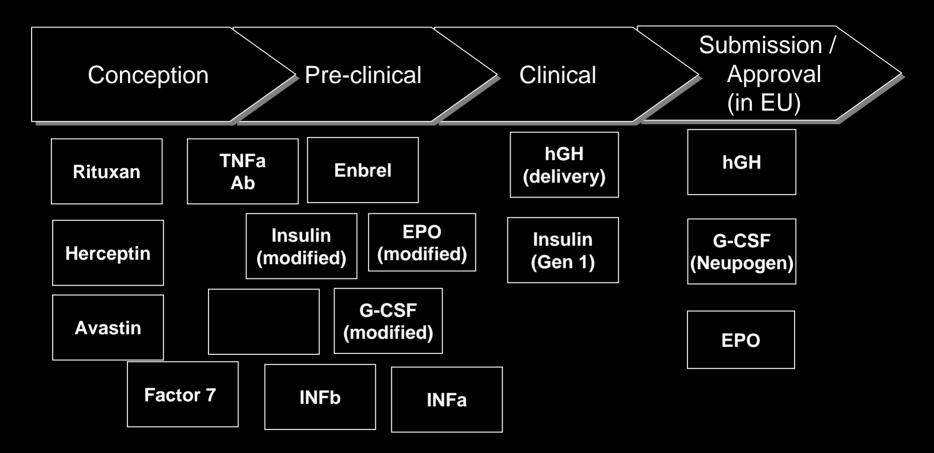
- \$420M upfront: \$300M to build, \$30M/yr while in trials \* 4 years
  - X (risk of approval)
  - + (risk of FDA or court delay\*\$30M/yr)

Outsourcing or sharing capacity is relatively attractive

- Global peak demand for Herceptin: 500kg/yr, Enbrel: 400kg/yr
- Can be achieved in ~20,000L production facility
- Modern facilities at 80,000L



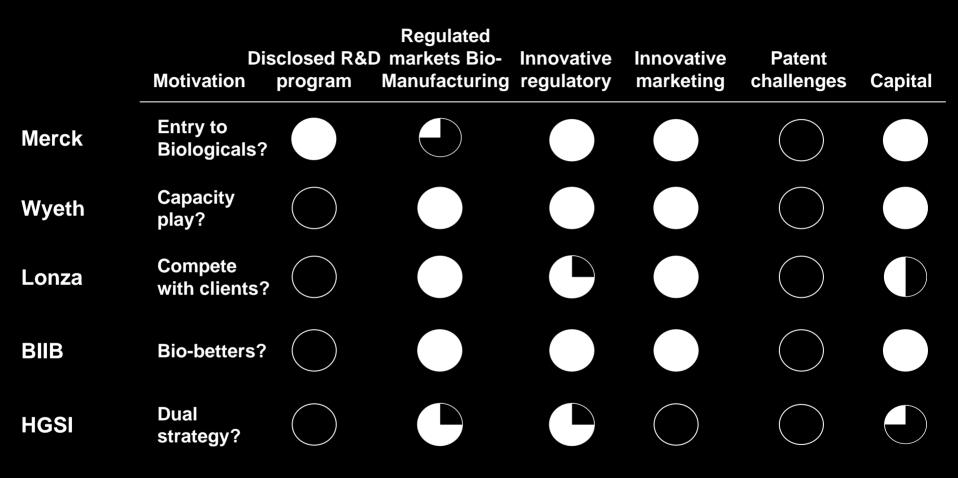
### **Targets: Where Are They In Development**



## Market share (II) – There is always a wrinkle

Private Payor		hGH	
Public			
Payor	Long duration of treatment		Short duration of treatment

## Market Participants (II) – The usual Suspects



Bio-betters as tie breakers ?

EXAMPLE

# Is It All Worth ? (I)

#### Contribution to generic EBITBA per \$1B branded sales

	Conservative scenario	Moderate scenario	Aggressive scenario
Notional branded sales	\$1B	\$1B	\$1B
Biosimilar share (%)	20%	50%	75%
Biosimilar price (% of BRx)	80%	70%	55%
Biosimilar revenue (\$M)	\$160M	\$350M	\$413M
Biosimilar COGS (% rev)	12.5%	14%	18%
Marginal SG&A/R&D (% rev)	25%	27.5%	30%
Biosimilar EBITDA (\$M)	\$104M	\$205M	\$215M

Source: Bernstein estimates and analysis; A 'back of the envelope' analysis

# Is It All Worth It? (II)

Contribution to generic EBITBA

Conservative scenario

 \$3.06B
12.5% 25%
\$4.89B
20% 80%
\$6.64B \$3.36B \$2.88B \$3.74B \$5.99B \$7.95B

