

Leveraging biosimilars for better access and lower cost

Per Troein, VP Strategic Partners

March, 2018

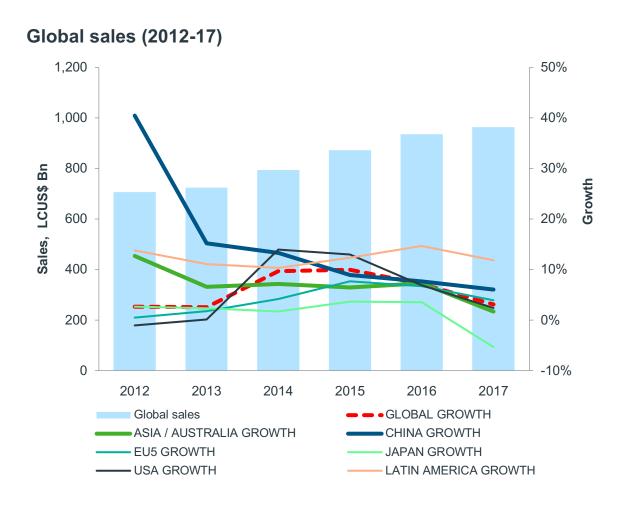
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No conflict of interest to declare





Global pharma has grown 6.4% over the last 5 years to \$964BN

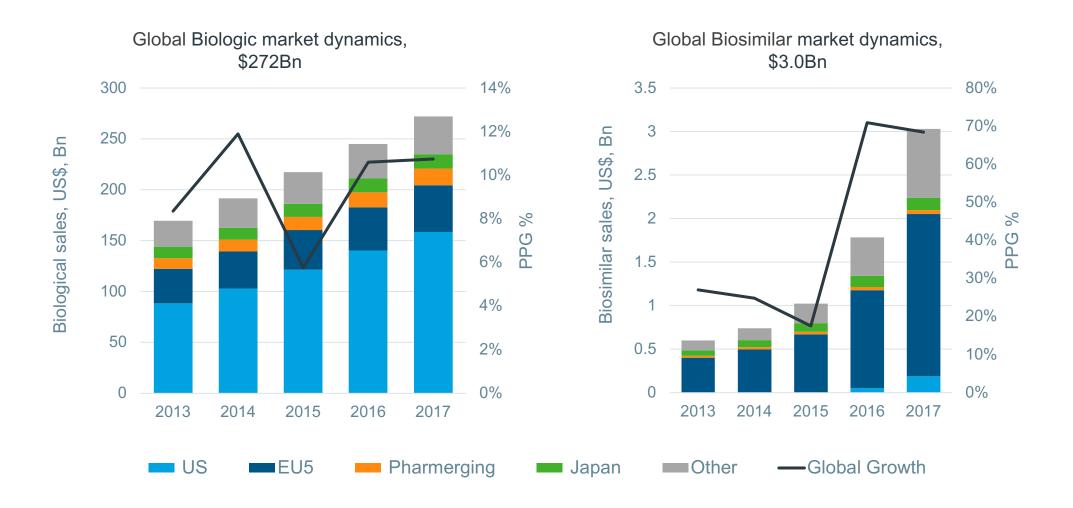


	Global Sales/Growth 2017		
	Sales \$LCUS Bn	% Share	% Growth 2012-17
Global Total	964		6.4%
USA	441	45.4%	7.1%
CHINA	82	8.2%	10.2%
JAPAN	73	7.6%	1.1%
GERMANY	42	4.0%	5.1%
FRANCE	32	3.1%	1.4%
ITALY	29	2.8%	5.7%
BRAZIL	24	2.5%	12.1%
UK	22	2.2%	7.1%
SPAIN	11	1.1%	9.1%
CANADA	19	1.9%	5.1%



Biologics account for almost $\frac{1}{4}$ of Global sales. Biosimilars only account for ~1% of biologics.







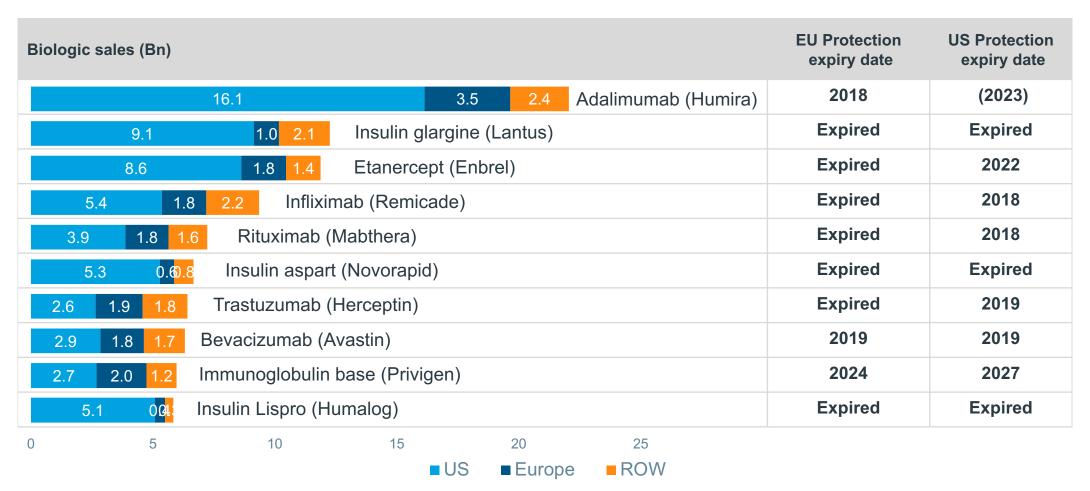




Important Biologics have already lost or are about to lose exclusivity

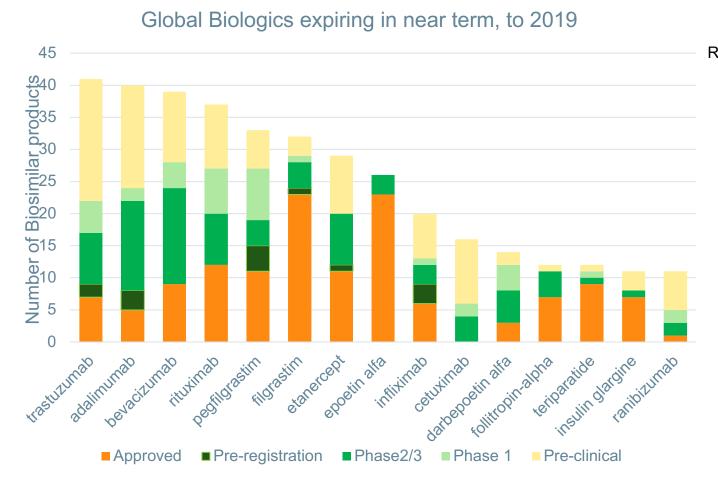
Global Top 10 Biologics Sales

US\$ MAT Q3 2017

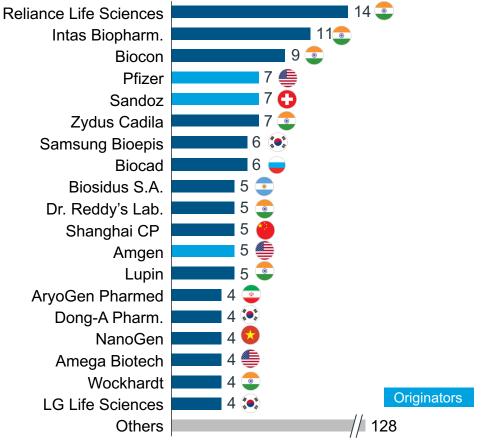


Biosimilar development is being actively pursued by a large number of companies for the leading molecules





Global Biosimilar Pipeline by Manufacturer (Phase III to Approved)





The promise – savings and increased access



Price reduction through competition



Increased access driven by a lower price



Savings can finance new innovation

The limitations of use

The EMA's approval of biosimilars states that they are equally safe and effective as the biologic, however the EU does not have a formal position on the <u>interchangeability</u> of biosimilars.

Each member state decides the policy framework guiding the use of biosimilars.

Substitution

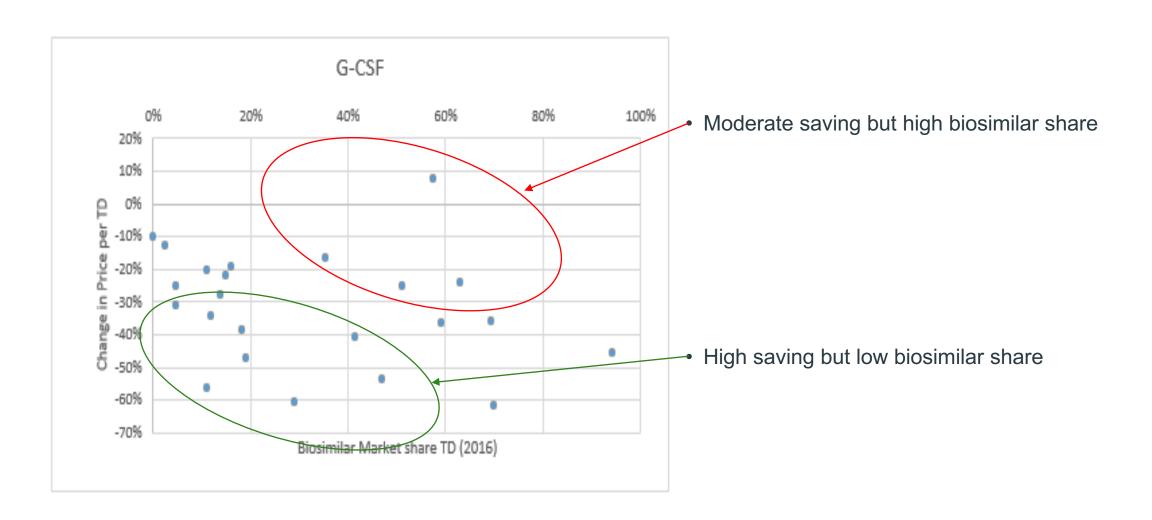
- What is it? A pharmacist dispensing either the biologic or biosimilar, without consulting the prescriber.
- What's the policy? In the EU, in general there is no policy supporting pharmacy substitution for biologics.

Switching

- What is it? A prescriber can exchange one product to another, taking into account patient information, baseline testing, monitoring, etc.
- What's the policy? Most EU country authorities support physician-led biosimilar switching. The prescribers decision can be influenced by other stakeholders.

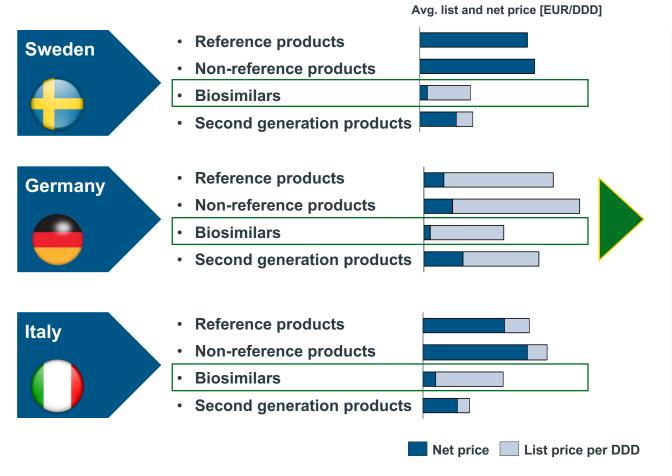


There is not necessarily a correlation between biosimilar uptake and list price



Increased competition drives down prices

Case study GCSF in European markets

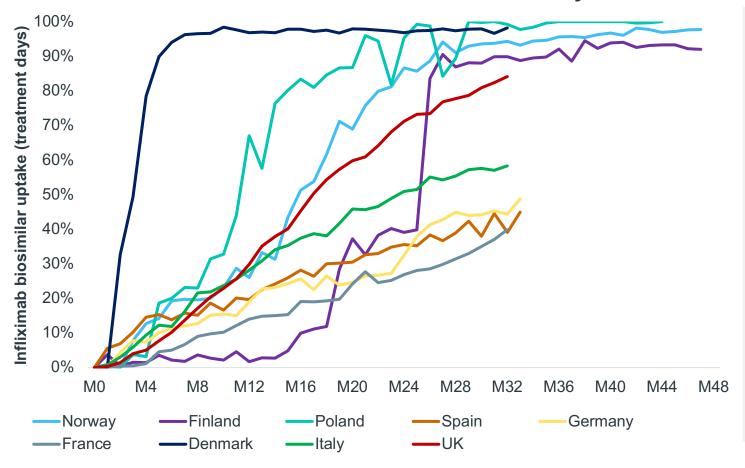


- The originator has focused the defence on switching users to second generation and it is also where the rebates has been given
- The competion has been fierce and Biosimilar discounts can be 80-90%
- The net prices are actually fairly similar
- Markets illustrate that even if very low net prices are available in a market, this doesn't always determine the highest sales market share



Infliximab – the new wave of biosimilars

Europe: Infliximab biosimilar market share in treatment days



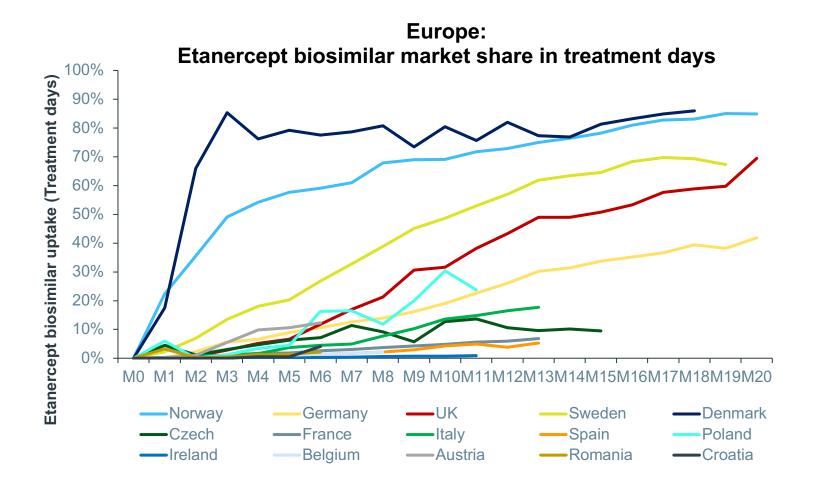
- Denmark and Norway are examples of 1 national tender which get high penetration of the biosimilar very quickly
- UK; a market tendering in 4 waves, 6 months apart
- Finland; the result of originators offering a very attractive deal up-front
- Markets with more fragmented buying

Uptake of hospital products is often influenced by:

- **Reimbursement**. Hospitals receive discounts so there is a financial incentive to switch.
- **Stakeholder influence**. Culture of "Incentives" to the prescriber, having local champions on safety etc.



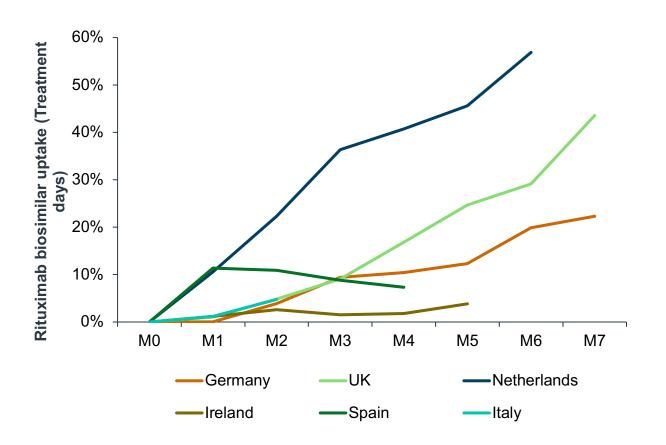
Etanercept shows a similar picture



Uptake of Etanercept was influenced by how the drug payment was covered in a country - general reimbursement vs hospital tender

Rituximab has only been launched in a limited number of markets

Europe: Rituximab biosimilar market share in treatment days (IV market only)

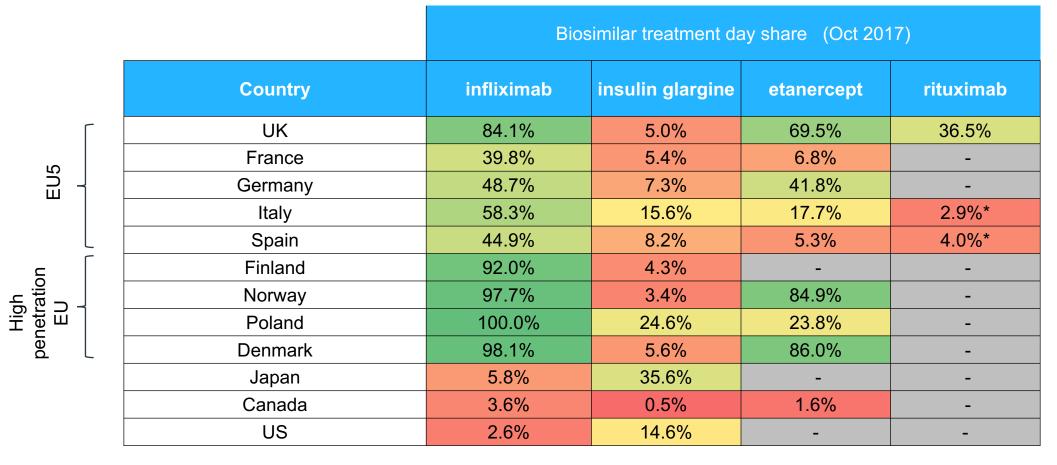


- Our assumption is that launching has been supply restricted.
- Some countries have a higher share of the Sub cutaneous version, making them less accessible.
- The most attractive markets get the first launch.

There is mixed uptake by molecule and country

No country has high penetration in all biosimilars

Europe, Japan, US & Canada- Biosimilar share of molecule treatment days



High

uptake

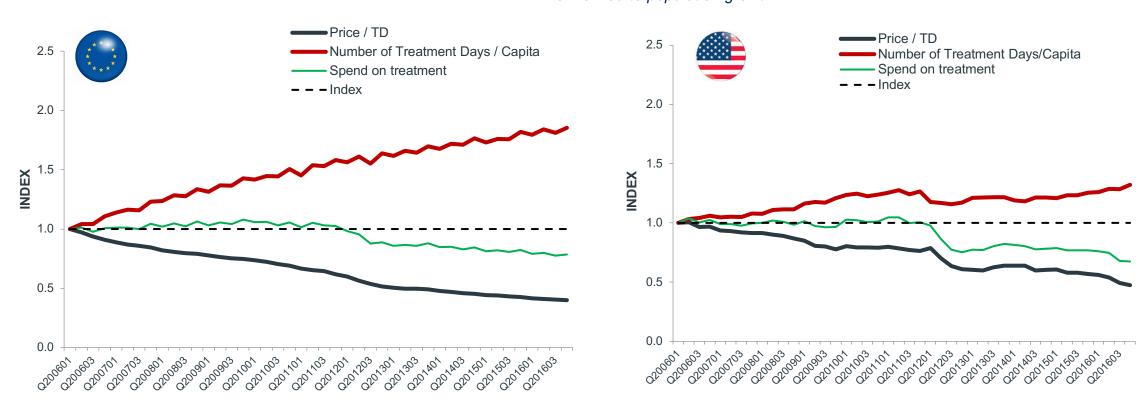
Low uptake

In traditional areas, price reductions has resulted in volume increases in most markets

Evolution of therapy volume, price of treatment and overall treatment cost in 7 therapy areas,

Rx retail market from Q1 2006-Q4 2016

Normalized to population growth



Selected therapy areas: Angiotensin II antagonists, anti-depressants, anti-epileptics, anti-psychotics, anti-ulcerants, cholesterol regulators and oral anti-diabetics.

Source: IQVIA MIDAS QTR Dec 2016; Rx, retail, oral molecules ONLY, combinations excluded

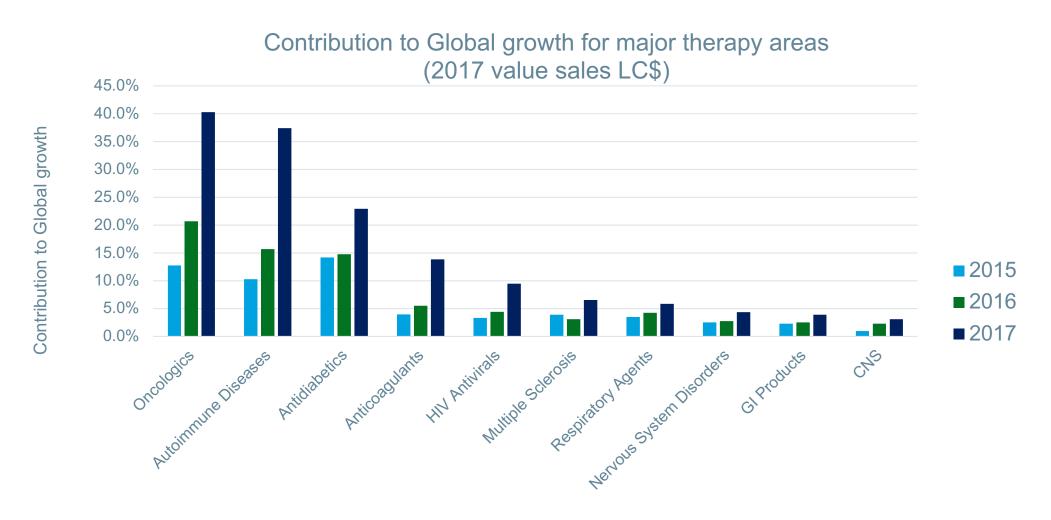


Volume growth impact in Europe

- The first wave:
 - HGH Limited impact of lower price exempt Eastern Europe
 - Epo Mixed development some countries has reduced based on EMA guidelines
 - GCSF strong development in most markets
- The later wave
 - Fertility, insulin, LMWH no impact (low uptake)
 - Anti TNF accelerating growth for molecule and slowly for class

Each product has a unique set of circumstances, but overall we will see similar pattern as for small molecules

Savings can finance new innovation



The risks

The society aspects

Too few companies ready to compete in tenders

- Tenders, to give good price reductions, require minimum of 3-4 competitors.
- If there are only few opportunities, with a long time lag in-between, the likelihood of having several bidders is lower.

Shortages due to rapid switching or production problems

- Individual companies can have technical supply problems – if one winner takes all, the market is more exposed.
- The rapid switch from one producer to another can cause supply risks.
- The lowest cost producer may have had to make compromises, which increase risk

Long term sustainability

 Longer term, if the experience is that developing biosimilars doesn't give a return on investment, new development might slow down, or stop.

What are some tendering model alternatives?

Denmark

- Tendering entire market as soon as the competitive situation changes
- Fast switching of all patient

England

- Dividing tendering in 4 groups
- Tender each group for 2 years, the start date is staggered with 6 month between the groups

- Models supporting use of more than one product preferable
- Balance to be struck between sustainability and competition
- Price is important, but there are other factors to consider:
 - Must also demonstrate low risk for shortages
 - Must also account for value-add products / services



The hospital pharmacist role can vary

- Be the local scientific support for the use of biosimilars
- Be the champion for leveraging biosimilars in the institution/ support the champion
- Support purchasing collaboration/ tender best ratio price/other factors
- Monitor implementation/ pro-actively address issues as the arise

Take away



The experience base of use of biosimilars and switching are now very broad

— it has proven to be safe



Versus generics – achieving the benefits is a team work between several functions; hospital pharmacy, purchasing, prescriber, payer



Price will not be all – who will be reliable suppliers?



Biosimilars are just now one of the largest "opportunities"



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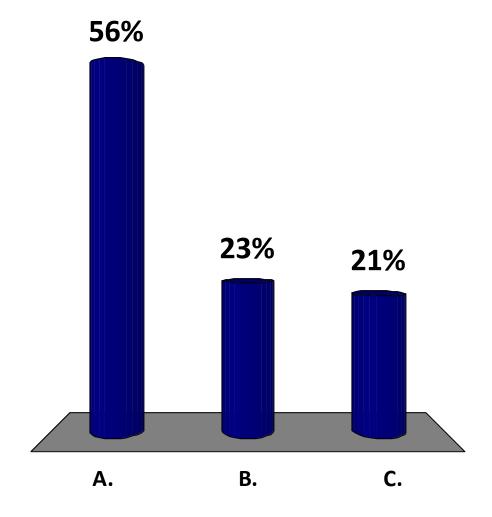
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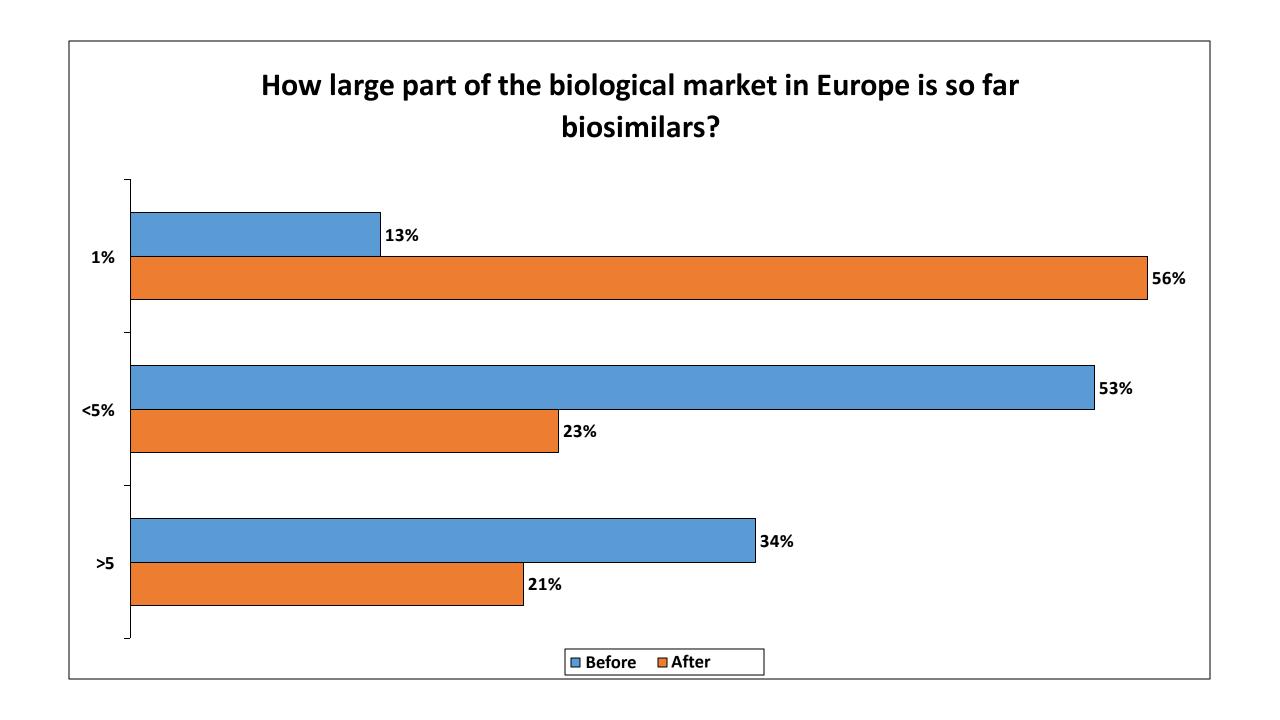
How large part of the biological market in Europe is so far biosimilars?

A. 1%

✓ B. <5%

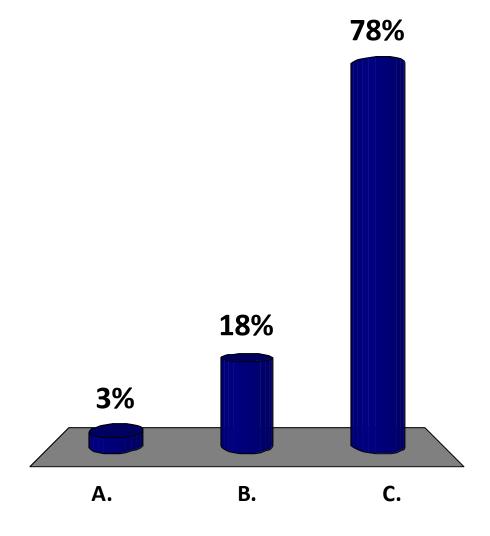
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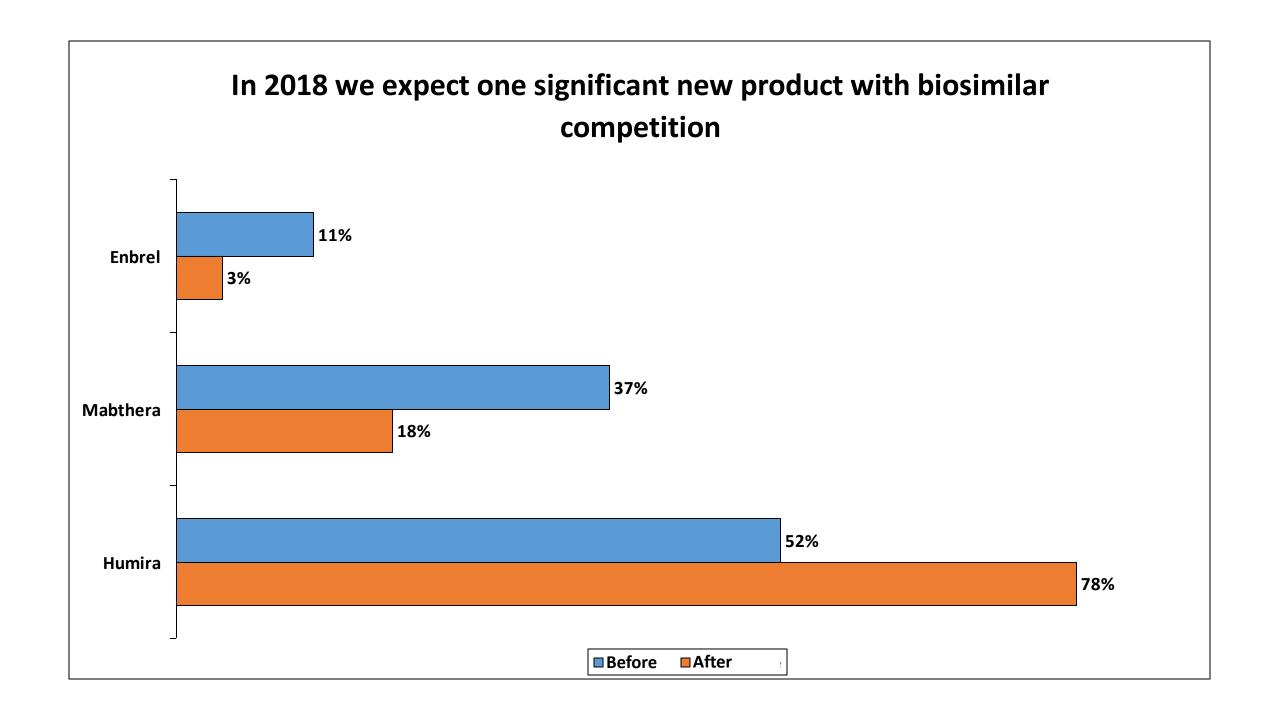




In 2018 we expect one significant new product with biosimilar competition

- A. Enbrel
- B. Mabthera
- C. Humira





What is the practical implication of "switching"

- A. The final decision is made by the prescriber
- B. A drug committee can only do a recommendation
- C. Important to track which product is used

