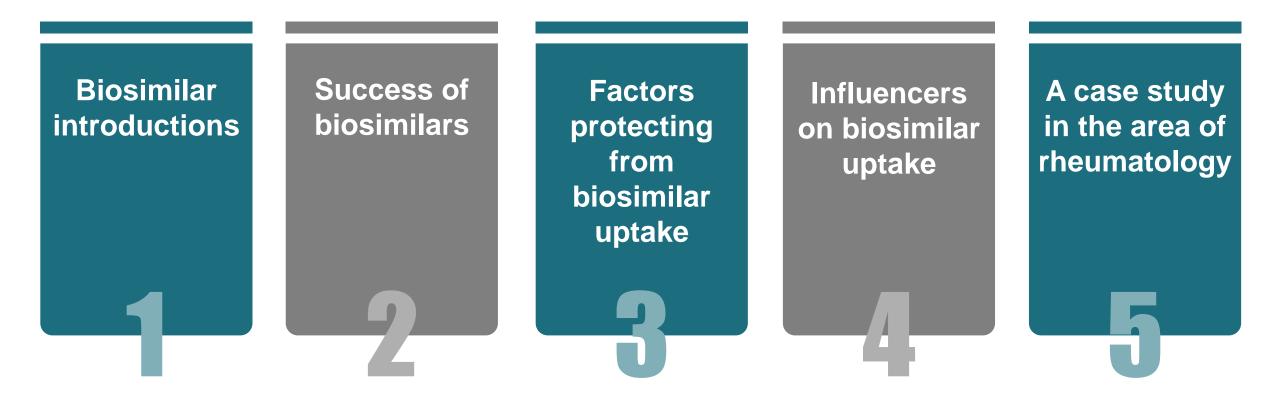
# SKIM | Biosimilars

How to stay competitive against a new wave of entrants?



# Topics for today





# What are the differences between biologics and biosimilars?



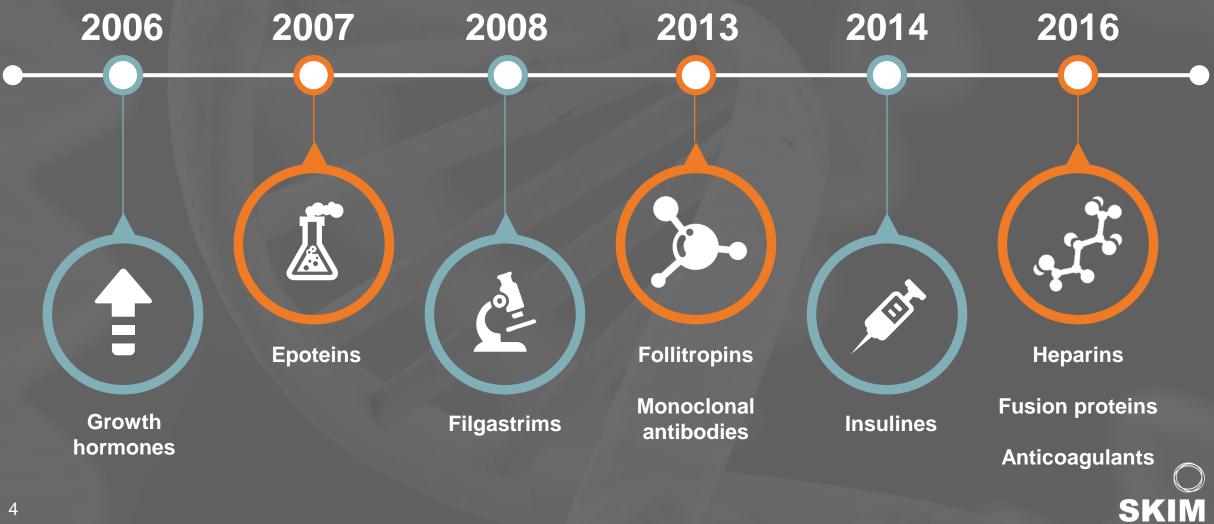
What are biologics?

What are biosimilars?





## **Biosimilar introductions**



## Why are biosimilars successful?

# \$154bn

' S

Global spending on biologics

# \$110bn

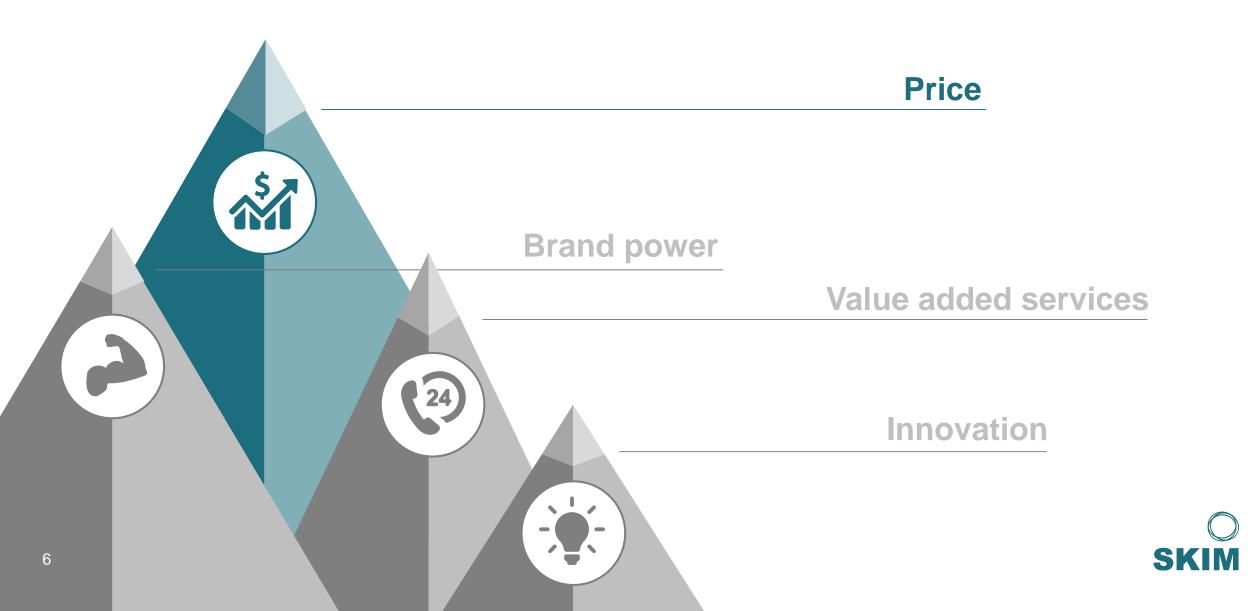
Global savings by using biosimilars

# 30%

Price discounts averaging around



## How to protect for biosimilar uptake?



### Who and what influences biosimilar uptake?

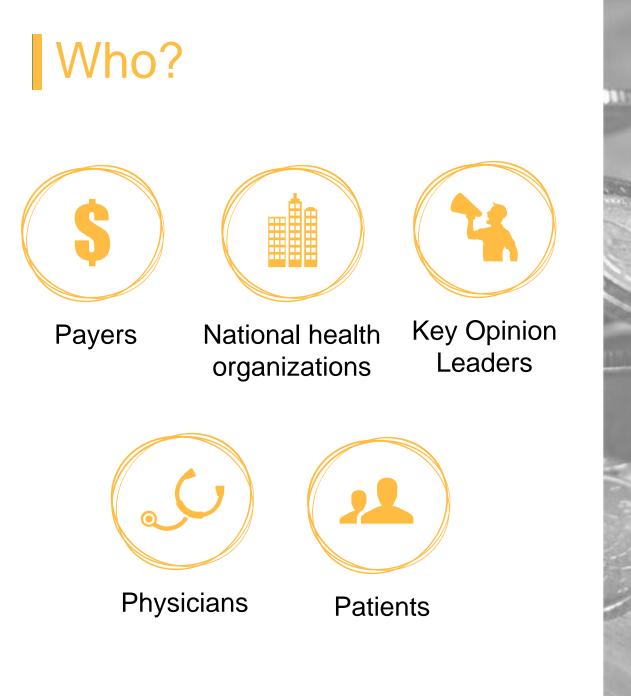


### **Competitive Landscape**

Who?

What?









# What?





National / regional guidelines or recommendations

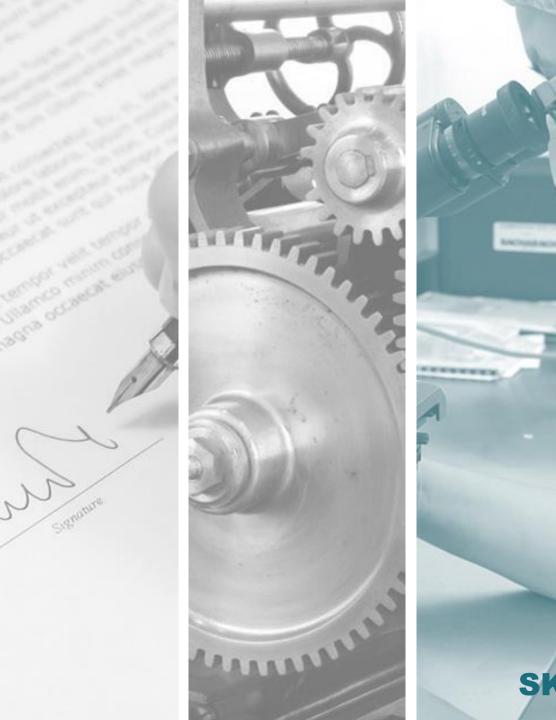
Gain share agreements





Prescribing quotas

Evidence generation



### Case Study

Measuring the uptake of biosimilars in the rheumatoid arthritis market

SKIN

# How to measure biosimilar impact?

### **Fixed part**

Bio	osi	milar produ	ict profile				Vai	<sup>r</sup> iable pa
Efficacy	Con	nparable to originator	product					
Safety	Co	Biosimilar product profile						
QoL	Co	Price relative to	10% cheaper	20% cheaper	30% cheaper	40% cheaper	50% cheaper	60% cheaper
Dose regimen	Co	originator product						
Mode of Action	Col		Use originator brand in	Use originator brand in any patient according to	Proactively identify patients stable on	Use biosimilar only		NIt
Expected indication	Со	Endorsement from health authorities	any patients according to license	license – but reimbursement will ONLY at lowest price	branded product who could be switched to the biosimilar	in new initiated patients	Use biosimilar in all patients	No endorsement in place
		Clinical data	Phase I study to demonstrate equivalent pharmacokinetics and safety versus originator product Phase III study to demonstrate equivalent efficacy and safety compared with originator product in 1st line treatment only	Phase I study to demonstrate equivalent pharmacokinetics and safety versus originator product Phase III study to demonstrate equivalent efficacy and safety compared with originator product in 2nd line treatment only	Phase I study to demonstrate equivalent pharmacokinetics and safety versus originator product Phase III study to demonstrate equivalent efficacy and safety compared with originator product in 1st and 2nd line treatment			
		Value added service	Home care services	Patient and HCP support program	No value added services			SK

### Patient allocation with physicians

Measuring the uptake of biosimilars in the rheumatoid arthritis market in three steps:



Measure the current market (including the existing biosimilars on the market for infliximab and etanercept)

#### **STEP 2**

Measure the impact of future new products (including new biologics and the new biosimilar)

#### **STEP 3**

Measure the impact of the different product characteristics and price levels



# How to measure stakeholder influence?



High influence of hospital pharmacist on physicians treatment decision



Choice exercise to set quota on proportion of patients receiving new biosimilar What minimum quota would you set, if any, for this biosimilar knowing the following about price and attitude of the physician in your hospital towards this?

Product profile biosimilar					
Price relative to originator biosimilar	60% cheaper				
Physicians advocacy	Physicians advocate <u>for</u> usage of biosimilars				

		% of biosimilar each physician has to prescribe to their rheumathoid arthritis patients	
	•	I would not apply a minimum quota	
		(1 of 6)	
< Prev	vious	0%	Next >



Quota outcomes per price point tested for physician model



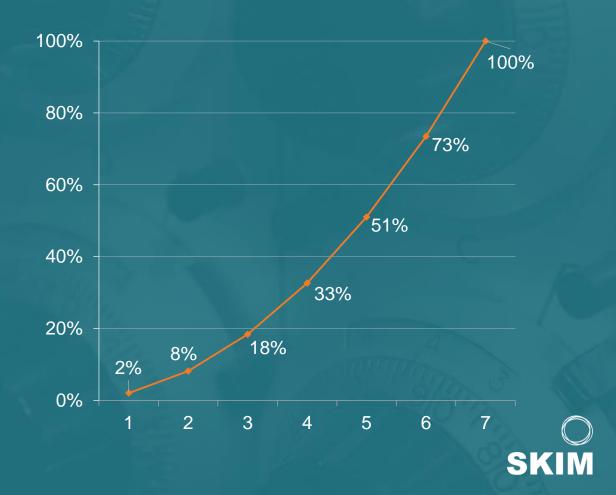
# Applying weights

Physicians often overestimate the proportion of patients they would prescribe to that new product.

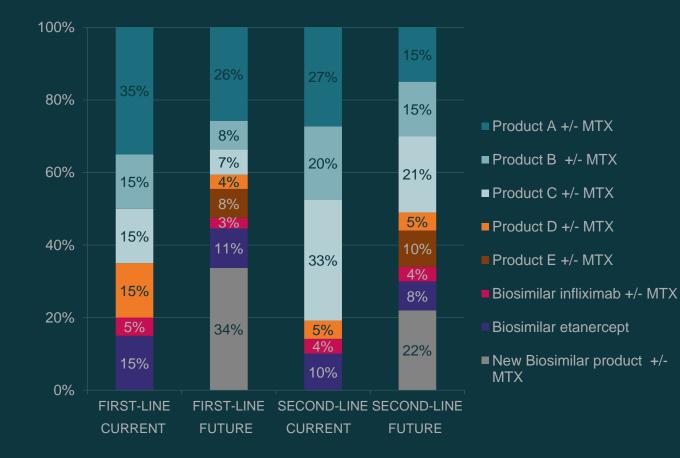


We will use the respondent's answer to a 7-point "likelihood to Rx" Likert scale for each the new biosimilar to calibrate for overstatement

#### Reduction Factor (to be multiplied by patient share)



# Outcomes of forecast data

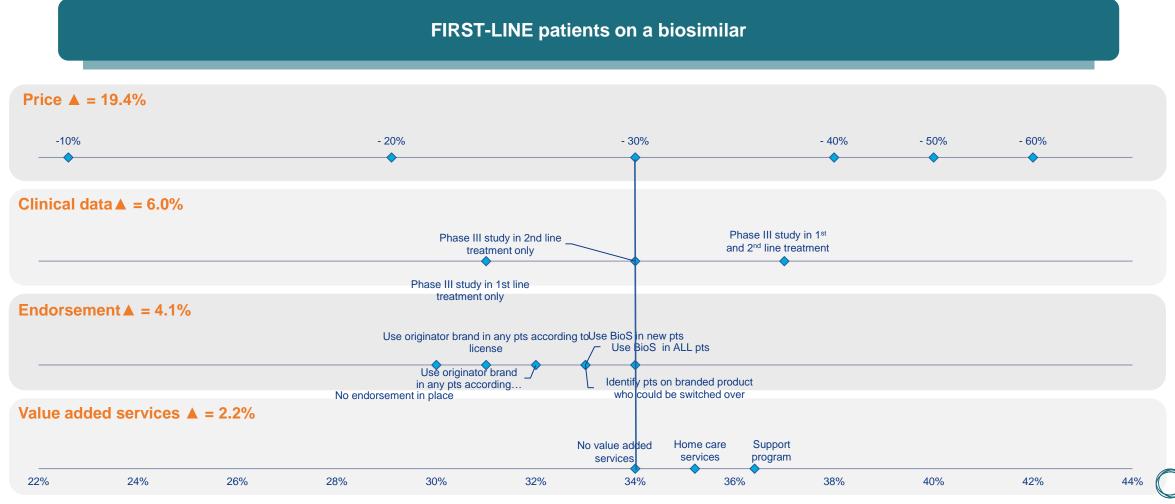


#### **Scenario modeled**

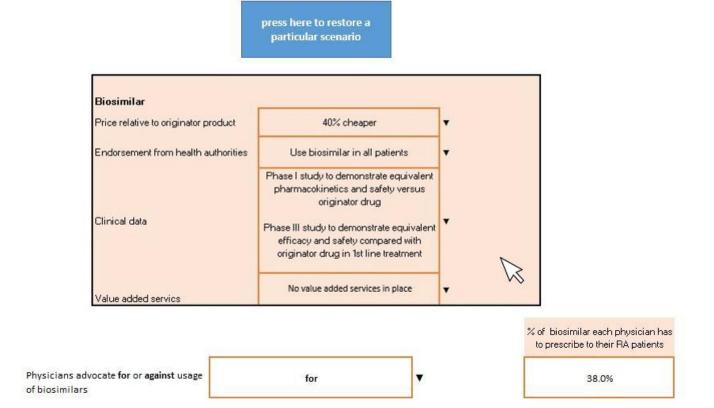
- Biosimilar price: 30% cheaper compared to originator product
- Endorsement: use biosimilars in all patients
- Phase I study to demonstrate equivalent pharmacokinetics and safety versus originator product, Phase III study to demonstrate equivalent efficacy and safety compared with originator product in 1<sup>st</sup> and 2<sup>nd</sup> line treatment
- No value added services in place



# Outcomes of importance data



## Market simulator as key deliverable



calibration: TRUE weights: TRUE

figures: preference share under currently defined scenario & (& from current)	FIRST-LINE biologic	SECOND-LINE biologic + later	
Product A +/- MTX	26% ( 🛦 -9%)	15% (▲-12%)	
Product B +/- MTX	8% (▲-7%)	15% (▲-5%)	
Product C +/- MTX	7% ( 🛦 -8%)	21% (▲-12%)	
Product D +/- MTX	4% ( 🛦 -11%)	5%	
Product E +/- MTX	8%	10%	
Biosimilar infliximab	3% ( 🛦 -2%)	4%	
Biosimilar etanercept	11% (▲-4%)	8% (▲-2%)	
New Biosimilar	33%	22%	

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# Key take-aways

Price is the main driver of biosimilar prescription, but not the only driver

Know who your competitors are and will be in the future

Know who and what influences biosimilar prescription









# Thank you



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