

High market attractiveness and likely entry of >5 competitors will lead to a share decrease of 70-90% for [Originator drug] (1/5)



LOSS OF EXCLUSIVITY

/ PRELIMINARY

Categories	Underlying characteristics		Rationale	Impact on originator market penetration
Market attractiveness	Revenue	~\$12.5B ¹	Global net sales in 2021 are >\$5B for [Originator drug] franchise, positioning it as a blockbuster with a highly attractive market for generics	7
	Volume	~7B²	Exceptionally high-volume highlights large potential for generics in the diabetes type-II space	7
2 Competition	# of entrants	>5	>5 generic entrants anticipated for [Originator drug] from litigation data and dossier filings	7
	Biological	No	[Originator drug] is a non-biological, small molecule drug implying that generics do not face any additional challenges when copying the originator	-
	Early entry Generic	No	As of now, there are no signs that there will be an early entry generic impacting the market penetration of the originator in an early stage	-
3 Other factors	Geo	68% US, 5% EU Archetype 1, 5% EU Archetype 2	[Originator drug] is mainly sold in the USA with some additional exposure to countries in Europe (UK & Germany) with high generic substitution, highlighting an exposure to countries that historically show a high penetration of generics	7
	ACT	A10BH01	[Originator drug] is a drug used in disease information (ATC XX) as it is a [] inhibitor aiming to lower blood glucose which is sold in pharmacies	7
			For this type of drug, there are no additional regulations/ hurdles in place that would prevent generics to enter the market	
Share loss				70-90%









Selection of comparable LoE cases since 2017 gives with 34 individual cases to estimate originator volume decay (2/5)



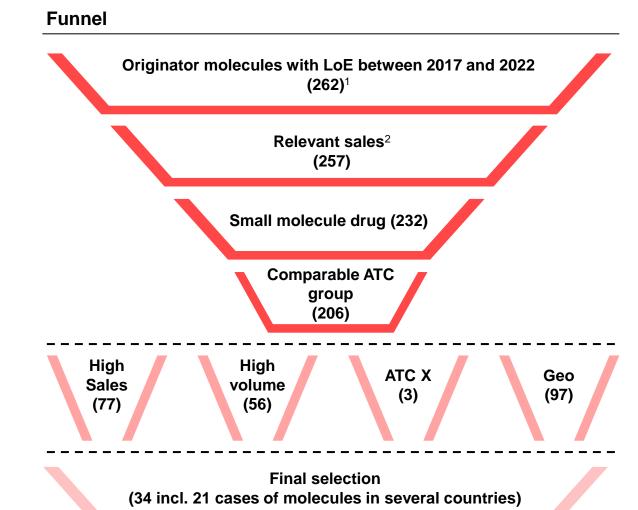
LOSS OF EXCLUSIVITY

SHARE LOSS

METHODOLOGY

Methodology

- Empirical analysis of how branded drugs change in price, volume and sales following loss of exclusivity is based on selection of comparable, historical LoE cases
- All originator molecules since 2017 that have a LoE between 2018 and 2022 have been selected from the IQVIA database
- This selection is **narrowed to drugs**, which are comparable to [Originator drug] by excluding products with neglectable sales, biological products, and products in ATC groups that have higher entry barriers due to regulations and research costs (i.e., R: Respiratory System and N: Nervous System)
- We use the remaining 195 originators as our selection of comparable LoE cases analyzing changes especially in volume after LoE
- Thereby, we consider additional factors to refine our analysis by screening for drugs that meet a least two of the following criteria
 - Originator has high sales (i.e., >\$1 B in US and >\$75 M in European countries) as [Originator drug] displays global net sales of ~\$X.X B
 - The drug has a high sales volume (>50 M units) as [Originator drug] is also a volume-driven
 - There is an overlap in the ATC group (i.e., A)
 - The Originators has exposure to relevant geos (USA, Germany, and UK) as 68% of [Originator drug] sales come from the US and 5% from EU Archetype 1 countries
- The **final selection is manually adjusted** to exclude drugs which pass the filter criteria but are still not comparable to [Originator drug] for case-specific reasons (e.g., exclusion of Viagra drugs and steroids)



Note: 1) Excluding originator molecules without complete sales data; 2) Excluding products with <\$50 M sales in US and <\$5 M sales in Germany and UK Source: IQVIA

Sales drop of ~80% in US, DE, and GB driven by volume decay, while Originators in Spain and Italy are able to maintain volume through price reduction (3/5)

51%

47%

LOSS OF EXCLUSIVITY

SHARE LOSS

SAMPLE OUTPUT

Volume **Price** Price (indexed on Sold units post-LoE (indexed on LoE year) LoE year) Average Average 120% 120% GB EU 1 100 US 80 EU₂ 60 60 EU₂ 40 40 20 20 Year 0 Year 1 Year 2 Year 0 Year 1 Year 3 Year -1 Year 3 Year -1 Year 2 22 28 28 28 11 28 28 22 11 Average 100% 82% 82% 93% 78% Average 100% 83% 51% 34% 32% 105% 100% 66% 100% 105% 106% 98% US 16% 7% 4% 100% 98% 95% 102% 101% EU 1 EU 1 100% 84% 44% 19% 15%

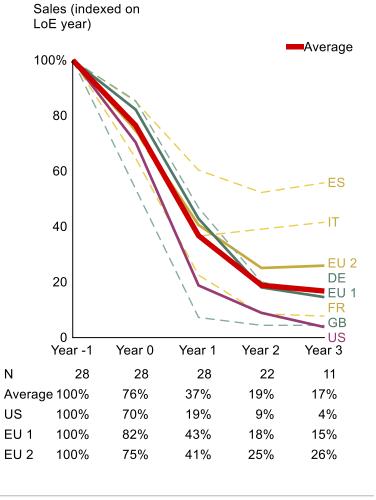
EU₂

100%

84%

59%

Sales



Note: Year 3 includes Year 2 Generics penetration if there are no values available in Year 3

75%

61%

Source: IQVIA

100%

91%

62%

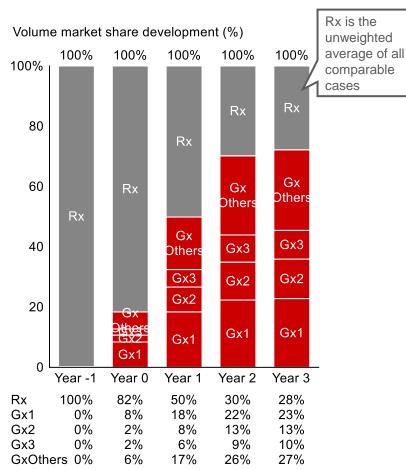
Comparable LoE cases show, on average, Generics are expected to gain up ~70% market share within 3 years, with varying magnitude for timing of entrance (4/5)

LOSS OF EXCLUSIVITY

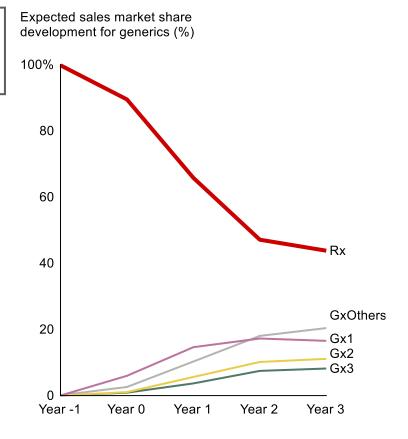
SHARE LOSS

SAMPLE OUTPUT

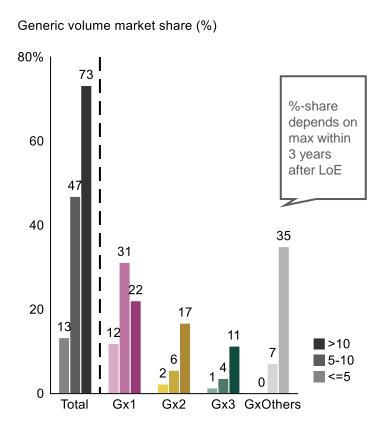
Generics market share increase



Expected sales share for Generics



Gain of Generics by share by # of entrants



Note: Year 3 includes Year 2 Generics penetration if there are no values available in Year 3; EU 1 includes Originators from Germany and the UK, while EU 2 includes Originators from France, Italy, and Spain

Source: IQVIA

Comparable LoE cases show, on average, a decline in Originator market share of ~70% with exceptionally strong decline in the US (5/5)

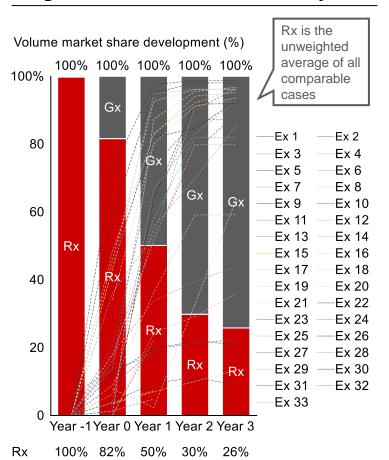


LOSS OF EXCLUSIVITY

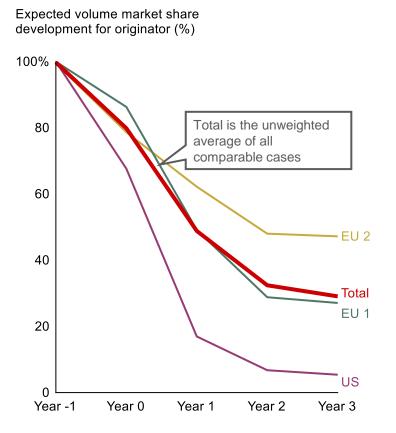
SHARE LOSS

SAMPLE OUTPUT

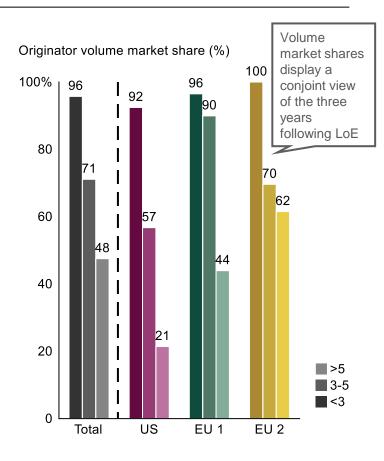
Originator market share loss over years



Expected development for Originator



Loss of Originator share by # of entrants



Note: Year 3 includes Year 2 Generics penetration if there are no values available in Year 3; EU 1 includes Originators from Germany and the UK, while EU 2 includes Originators from France, Italy, and Spain Source: IQVIA