

Biosimilars

An Emerging Opportunity

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About Me







Disclosure

Kevin Shores, author of this educational activity, is employed by and receives a salary from Serve You Rx.

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Learning Objectives

At the conclusion of this activity, participants should be able to:

- Recognize the characteristics of a Biosimilar product
- Identify common Biologics with available Biosimilars
- Recognize the wide range of savings opportunities associated with these products
- Recall plan design strategies to increase Biosimilar access
- Recall strategies to increase member engagement with these medications

Agenda

- 1 Introduction and Fundamentals
 - 2 Clinical Evidence
 - 3 Adoption Challenges
 - 4 Cost Consequences
 - 5 Our Response





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Biosimilar

FDA Definition

- A biosimilar is very similar, but not identical, to an original biologic medication (also known as a reference product) that FDA has already approved.
- For biosimilars to be approved by FDA, studies must show that there are no differences in the safety and effectiveness of biosimilars and the original biologics.

Both a Biosimilar and its original Biologic must:

- Be made from the same types of sources (e.g., living sources)
- Provide the same benefits when treating diseases or medical conditions
- Be given at the same strength and dosage
- Not be expected to cause new or worsening side effects



Available FDA Guides





Interchangeability

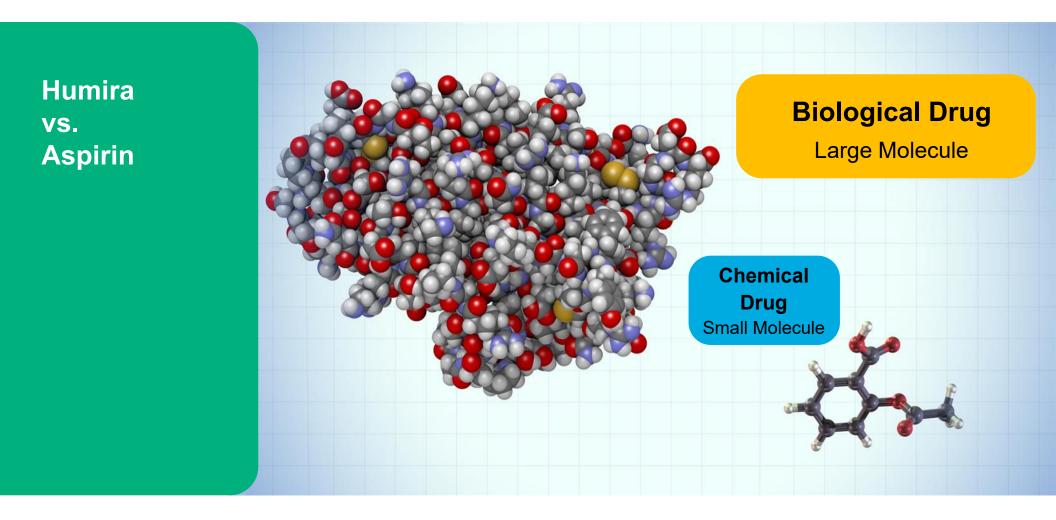




Generics vs. Biosimilars

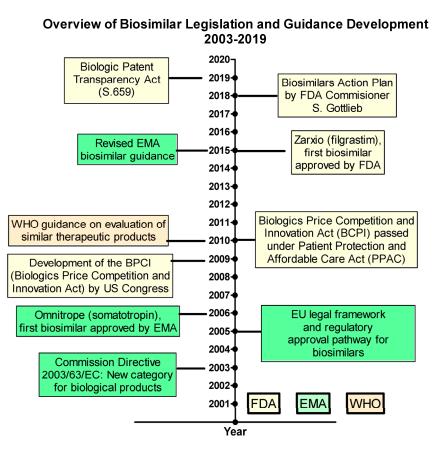
	BIOSIMILARS	GENERICS		
FDA Assessment	"Highly Similar" No Clinically Meaningful Differences	"Same" Active Ingredient Bioequivalent		
Manufacturing Base	Specialized process made from living sources	Simpler "copy process" made from chemicals		
Chemical Schematics	Biologic Novel therapeutic 15 years to develop \$1,200MM cost Intentionally similar design Biosimilar Competitive bioequivalence 8-10 years to develop \$1,000MM cost			
	Patentable Reference price Reduced price Source: Amgen, Inc. Biologics and biosimilars: An overview. 2012. IMS Health. Searching for Terra Firma in the Biosimilars and Non-Original Biologics Market. 2013.	Reference Generic Listed Drug Drug		







Legislation



U.S. Pathways for Approval

2003 → European Union (EU)creates the framework for approving biosimilars products

2006 -> EU approves first ever biosimilar

2009 —> BPCI Act of 2009 creates biosimilar approval framework in US

2010 —> WHO issues guidance opening up path to biosimilars internationally





FDA Approvals

	Product Class	Approvals	B Biosimila
Supportive Care	Filgrastim	BBB	Interchai Biosimila
	Epoetin	В	Biosimile
	Pegfilgrastim	BBBBB	
	Rituximab	BBB	
Oncology	Bevacizumab	BBBB	
	Trastuzumab	BBBB	41 Biosimil
	Infliximab	BBBB	Approved
Autoimmune	Etanercept	BB	 29 Currentl marketed
	Adalimumab	BIBBBBBB	marketea
	Insulin Glargine		
Ophthalmology	Ranibizumab	B 1	



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Burden of Proof

Pharmacokinetics (PK)

Pharmacodynamics

Immunogenicity

Clinical Study Outcomes -> FDA-approved biosimilars are as safe and effective as their original biologic and you can expect biosimilars to have the same benefits and risks as the original biologic.



Interchangeability

BPCI Act of 2009 Definitions

Reference Product

A reference product is the single biological product, already approved by FDA, against which a proposed biosimilar product is compared

Biosimilar Product

A biosimilar is a biological product that is highly similar to and has no clinically meaningful differences from an existing FDA-approved reference product

Interchangeable Product

- Is a biosimilar
- Expected to produce the same clinical result as the reference product (RP) in any given patient
- Switching between the proposed product and the RP does not safety risks or
 effectiveness compared to using the RP without switching



Interchangeability

BPCI Act of 2009 Definitions

Interchangeability Criteria

- Match the reference product in all approved indications
- Show no risk to patients when alternating or switching between the product and the reference product.

Interchangeability Product Advantages

- Substitution
- Prescriber/Patient Confidence

NOTE: Interchangeability does NOT equal more effective







Adoption Challenges

Barriers

Lack of Interchangeability

Education and Acceptance

Lack of Incentivization

Cracking the Formulary

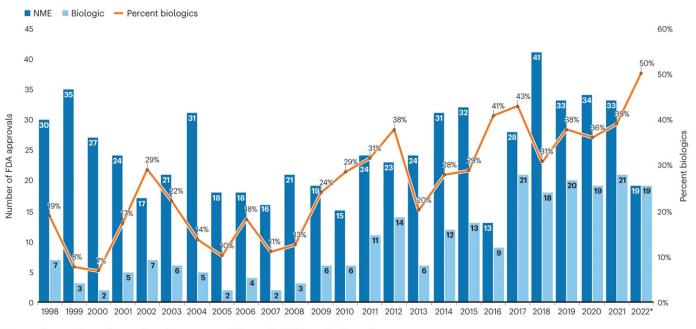






Follow the Money

From: Fresh from the biotech pipeline: fewer approvals, but biologics gain share



Approvals were down after a string of strong years. *Figures for 2022 as of 14 December.

Ballooning Costs

Specialty Biologics take up nearly half of U.S. drug spend with less than 3% of all Rx's.

The percentage of FDA approvals being Biologics has steadily increased over the last decade.



Follow the Money

- Who's No. 1? With \$25B in sales, Merck's Keytruda looks to be the top-selling drug of 2023
- Stelara patent deal puts J&J back on path to \$57 billion 2025 revenue forecast
- AbbVie raises 2027 sales forecast for new immunology drugs to \$27 billion
- Amgen reports \$767M profit in Q4 despite declining sales of Enbrel
 - J&J Beats Q4 Expectations, Reports \$21.4B in Revenue as Faces Patent Cliff

Ballooning Concerns

According to a 2024 PSG survey of 179 health plan administrators, 77% of respondents identified managing specialty drug cost or overall cost as their top priority for the upcoming plan year.

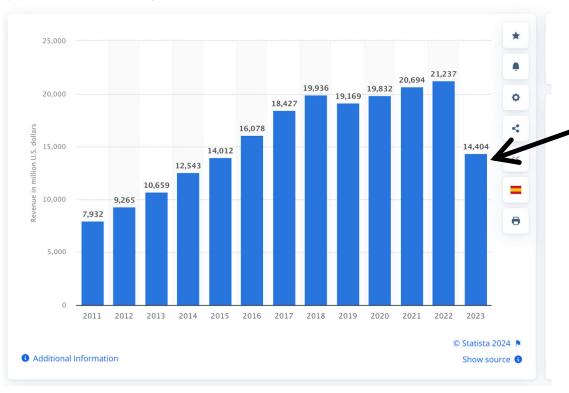


Effects

Health, Pharma & Medtech > Pharmaceutical Products & Market

AbbVie's revenue from top product Humira from 2011 to 2023

(in million U.S. dollars)



First Humira Biosimilar:

Amjevita

Released 1/1/24



Effects

Drug Name (Biosimilar)	Lowest WAC Cost	Savings from Baseline	Annualized Savings	
Humira (baseline)	\$7,000	\$0	\$0	
Abrilada	\$1,400	\$5,600	\$67,200	
Amjevita	\$1,800	\$5,200	\$62,400	
Cyltezo (IC)	\$3,200	\$3,800	\$45,600	
Hadlima	\$700	\$6,300	\$75,600	
Hyrimoz	\$800	\$6,200	\$74,400	
Hulio	\$3,200	\$3,800	\$45,600	
Idacio	\$6,500	\$500	\$6,000	
Yuflyma	\$3,200	\$3,800	\$45,600	
Yusimry	\$600	\$6,400	\$76,800	
Average Biosimilar	\$2,378	\$4,622	\$55,467	



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Replacing Humira

Drug Name (Biosimilar)	2022 Total Fills Calculated Cost (no Rebates) (Billions)		Annualized Plan Savings (Billions)	
Humira (baseline \$7,000)	3.033	\$21.2	\$0	
Biosimilar (75% avg \$3,500)	3.033	\$10.6	\$10.6	
Biosimilar (25% avg \$1,500)	3.033	\$4.6	\$16.6	
Biosimilar (low \$600)	3.033	\$1.8	\$19.4	



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Psoriatic Indications

Expanding Biosimilar Impact into Other Top Biologic Indications

Drug Name (Biosimilar)	Annual Fills	Calculated Cost (Billions)	Cost with \$1,500 Biosimilar (Billions)	Annualized Plan Savings (Billions)
Humira – \$7,000	3,033,000 Fills	\$21.2	\$4.6	\$16.6
Skyrizi – \$20,000	105,000 Fills	\$2.1	\$0.16	\$1.9
Otezla – \$4,500	110,000 Fills	\$0.50	\$0.17	\$0.3
Stelara - \$25,000	275,000 Fills	\$6.9	\$0.41	\$6.5
Cosentyx - \$7,500	650,000 Fills	\$4.9	\$0.98	\$3.9
Cimzia – \$5,500	900,000 Fills	\$4.9	\$1.4	\$3.5



Our Response



Serve You Rx Response

Market Demand

TABLE 2

Biosimilars Strategies Currently or Planned to be Used (n=171)		Planning to Use
Prior Authorization Requirement for Branded Reference Biologics with Biosimilar Available	54%	30%
Step Therapy Requirement for New to Therapy Patients to Try Biosimilar First	51%	33%
Lowest Net Cost Strategy	46%	38%
Mandatory Biosimilars for Patients New to Therapy Where a Biosimilar is Available	37%	39%
Cost Sharing Differential to Encourage Patients to Switch from Branded Reference Biologic to Biosimilar	33%	34%
Mandatory Conversion of Patients on Same Dosage of Branded Reference Biologic to Biosimilar	30%	38%
Higher Cost Sharing for New to Therapy Patients to Encourage Use of Biosimilar Versus Branded Reference Biologic	28%	31%

Pharmaceutical Strategies Group. 2023 Trends in Specialty Drug Benefits Report. Dallas, TX: PSG.



Serve You Rx Response

Market Demand

New Formulary

Focus on transparent pricing and biosimilars

Adaptive Clinical Programs

- Specialty Carve-Outs
- Specialty Management
- Prior Authorization Edits
- Step Therapy Requirements

Creating Strategic Partnerships

- Cost Plus Pharmacy \$0 member cost
- Third Party Carve-Out Vendors







Key Takeaways

- 1 FDA approvals for Biosimilars are increasing, and offer alternative solutions to providers and patients who may not be able access a reference biologic.
- Biosimilar approval criteria requires significant clinical data with a strict burden of proof. Interchangeability criteria requires additional clinical evidence for approval but does equate to being more effective.
- Biosimilars offer immense savings opportunities compared to their reference products.
- Strategies to increase Biosimilar engagement can involve adjusting formularies, copays, benefit design, third-party vendors, and more.



References

- 1. FDA Biosimilar: What Patients Need To Know https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7824407/
- 2. Gherghescu I, Delgado-Charro MB. The Biosimilar Landscape: An Overview of Regulatory Approvals by the EMA and FDA. *Pharmaceutics*. 2021; 13(1):48. https://doi.org/10.3390/pharmaceutics13010048
- 3. Slides from the May 16, 2024 Meeting of the Office of Therapeutic Biologics and Biosimilars
- 4. TRENDS IN SPECIALTY DRUG BENEFITS REPORT, COPYRIGHT 2024. Pharmaceutical Strategies Group. 2024 Trends in Specialty Drug Benefits Report. Dallas, TX: PSG.
- 5. Fresh from the biotech pipeline: fewer approvals, but biologics gain share https://www.nature.com/articles/s41587-022-01630-6



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Questions?

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>>>TABA will provide at later date<<<

