



# Biosimilars

## Global Terminology, Strategy & Pathways

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## Biosimilar Definition

- **Highly similar to the reference product**
- **No clinically meaningful differences**
  - Differences in raw materials or manufacturing processes between biosimilar and reference product may require pre-clinical tests or clinical trials
- **Does not equate to “Me,too” or 2<sup>nd</sup> generation biologicals**
- **Provisions for generic medicinal products may not be sufficient for biological medicinal products**



## ➤ US Regulatory Pathway

- **The Patient Protection and Affordable Care Act and Biologics Price Competition and Innovation Act (BPCI Act) (*signed March 23, 2010*)**
- **Scientific Considerations in Demonstrating Biosimilarity to a Reference Product (*draft FDA guidance*)**
- **Quality Considerations in Demonstrating Biosimilarity to a Reference Protein Product (*draft FDA guidance*)**
- **Biosimilars: Questions and Answers Regarding Implementation of the Biologics Price Competition and Innovation Act of 2009 (*draft FDA guidance*)**



## **Biologics Price Competition and Innovation Act (BPCI)**

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- Creates an abbreviated licensure pathway for biological products**
- Section 351(k) of the Public Health Service Act**
- Similar to the Abbreviated New Drug Application process in Section 505(j)**



## ➤ 351(k) Application Requirements

- **Is biosimilar to a reference product**
- **Utilizes the same mechanism(s) of action for the proposed condition of use as the reference product**
- **Condition(s) of use proposed in labeling have been previously approved for the reference product**
- **Has the same route of administration, dosage form, and strength as the reference product**



## EU Regulatory Pathway

- **Directive 2001/83/EC, as amended (2004/27/EC)**
- **Guideline on Similar Biological Medicinal Products Containing Biotechnology-Derived Proteins as Active Substance: Non-Clinical and Clinical Issues**
- **CHMP Guideline on similar biological medicinal products**



## ➤ Application Requirements

- **CTD Module 3 – Quality**
- **CTD Module 4 – Non-Clinical (Cross reference)**
- **CTD Module 5 – Clinical (Cross reference)**
- **Integrate Comparability Exercise to demonstrate the biosimilar and reference product have similar quality, safety and efficacy profiles.**



## Interchangeability/Interchangeable - US

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- **Biosimilar to the reference product**
- **Produces the same clinical result in the patient population**
- **May be substituted for the reference product without the authorization of the health care provider**





## ➤ Interchangeability/Interchangeable - EU

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- **Interchangeability is outside of the EMEA authority**
- **May be different meanings based upon the territory**



 Thank you!

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