

Regulatory Updates on Biosimilars in Japan

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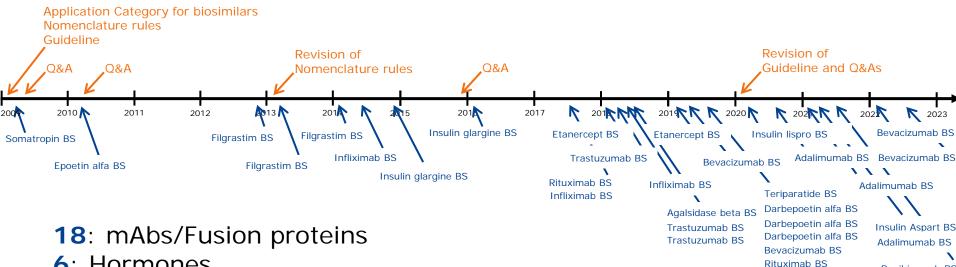


Outline

- Regulatory History and Status of Biosimilars
- PMDA International Collaboration
- Future Perspective



Regulatory History and Status of Biosimilars



6: Hormones

4: EPOs

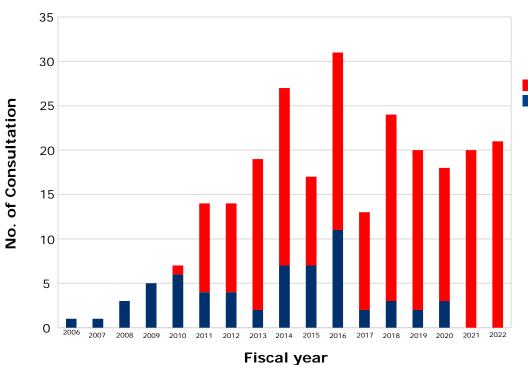
3: Cytokines

1: Enzymes

Ranibizumab BS



Consultation for Biosimilars

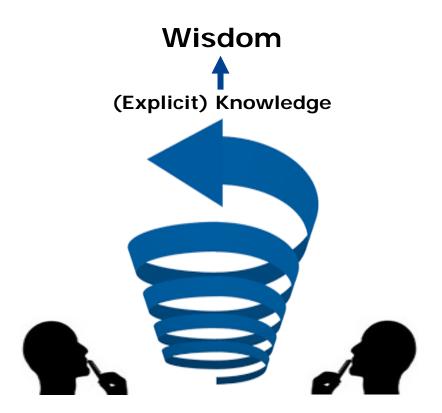


mAbs/Fusion proteins Others

>250: Consultations

>75%: mAbs/Fusion proteins







PMDA Multilateral Collaboration



WHO (1948-) is the directing and coordinating authority on international health within the United Nations' system.



ICMRA (2012-) is a voluntary, executive-level, strategic coordinating, advocacy and leadership entity of regulatory authorities



ICH (1990 renovation 2015-) unique in bringing together the regulatory authorities and pharmaceutical industry to discuss scientific and technical aspects of drug registration



IPRP (2018-) for exchange of information and regulatory cooperation for pharmaceuticals



APEC-LSIF-RHSC (2009-) for regulatory convergence by promoting ICH and other international guidelines in the APEC region



PIC/S (1995-) for harmonizing inspection procedures and facilitating communication



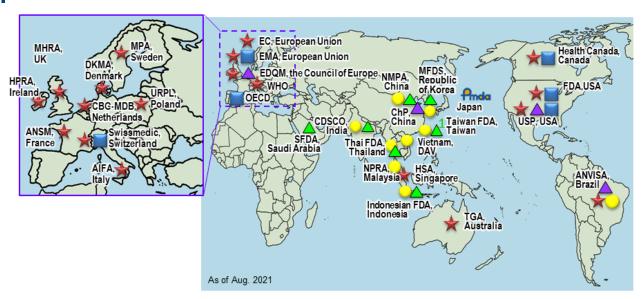
GHTF (1992-)/ IMRDF (2012-) for harmonizing medical device regulations



etc.



PMDA Bilateral Collaboration



- **Confidentiality Arrangement signed
- O Joint symposium held
- PMDA staff stationed at the agency

- Cooperative Arrangement signed
- Cooperative Arrangement on cooperation of pharmacopoeia signed
- △¹Cooperative Arrangement signed between
 the Interchange Association of Japan and East Asia Relations of Taiwan

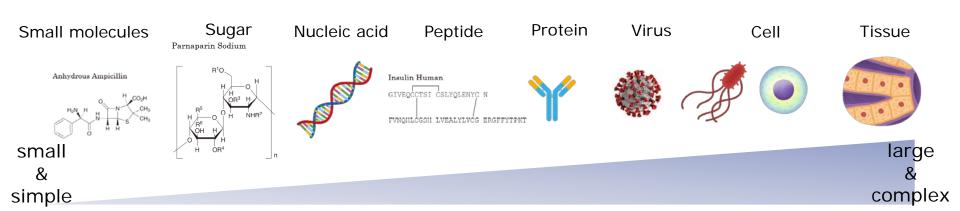
<u>Bilateral Cooperation | Pharmaceuticals and Medical Devices Agency (pmda.go.jp)</u>



Approach to Development of Follow-on products

depends on;

- Analytical techniques
- Understanding of quality attributes relevant to efficacy and safety
- Residual uncertainty
- Experience/Knowledge (Regulatory confidence/relief)





With Stakeholders



Y Aoki, et al, YAKUGAKU ZASSHI 142, 547-560 (2022) Questionnaire Survey on Adoption and Prescription of Biosimilars (Antibody and Its-related Products) by Medical Doctors in Japan

Q4-2. What information do you think is necessary when selecting and adopting biosimilars (mAbs and fusion proteins) in your department/hospital? (two most important answers)

- 1) Results of comparative studies b/w BS and RP in quality attributes
- Results of comparative studies b/w BS and RP in non-clinical studies
-) Results of comparative studies b/w BS and RP in clinical PK/PD studies
- 4) Results of comparative studies b/w BS and RP in PIII clinical trials
 -) Results of domestic post-marketing surveillance

11) No. of hospitals in Japan that have adopted BSs

- 6) Results of clinical trials on switching from RP to BS
- 7) Treatment guidelines from relevant academic societies
- 8) Information on the stable supply of BS
 - Information on national health insurance and delivery price, incl. a comparison of the estimated patient burden for the RP vs. BS, taking into consideration the high cost of medical care (under a high medical cost payment system)
- 10) Overseas data on BS utilization and studies on efficacy and safety
- 12) Others (please specify)
- 13) Not involvement in biosimilar adoption (or no particular information required)

 8

Thank you for your attention!

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