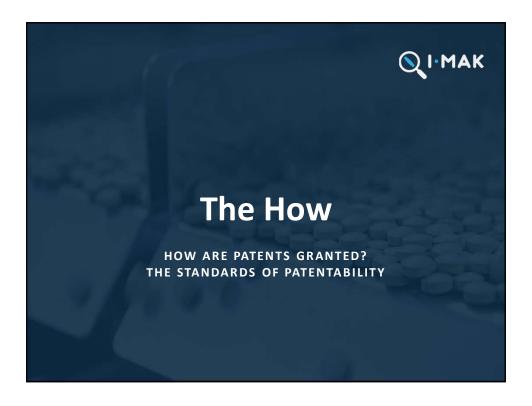


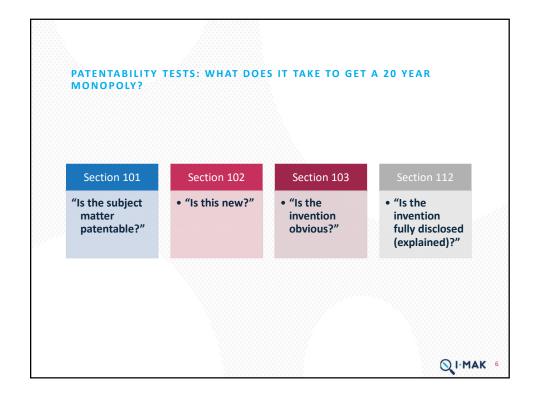
LEGISLATION + REGULATORY RULES

Congress and the Administration can effect change through:

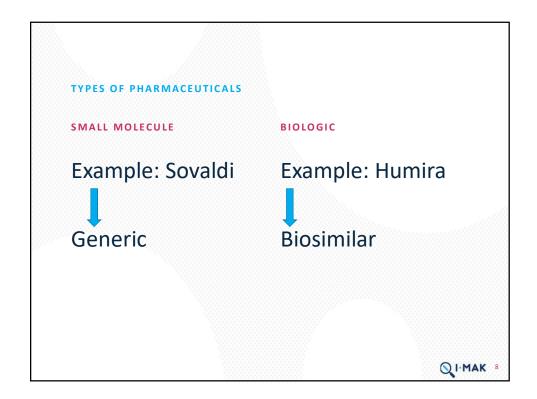
- Statutes Governing Patents
 - -The Patent Act (1952)
 - -Hatch-Waxman (1984)
 - -Biologics Price Competition and Innovation Act (2009)
 - -America Invents Act (2012)
- Regulatory Agencies Governing Patents
 - -U.S. Patent and Trademark Office (PTO)
 - -U.S. Food and Drug Administration (FDA)











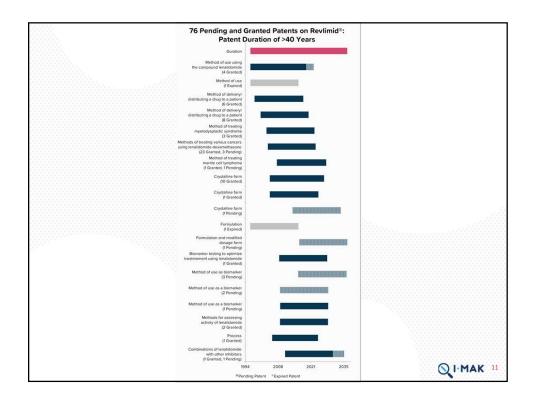
TYPES OF PHARMACEUTICAL PATENTS

Pharmaceutical manufacturers pursue patents in three areas:

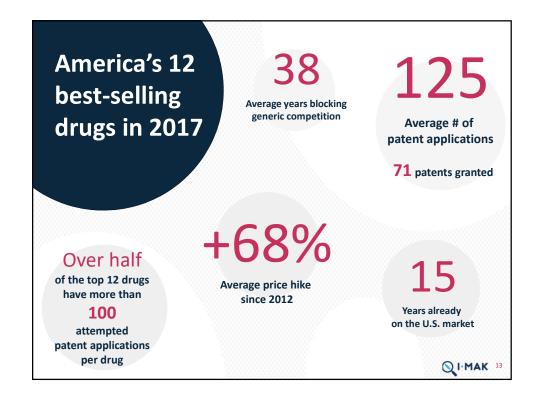
- Base patents: These patents cover the core active ingredient or protein sequence/DNA that make up a medicine and are the foundational patents for every pharmaceutical drug.
- Secondary patents: derivative compounds that are inherent within the base patent e.g. different crystalline and substantially pure forms, enantiomers, formulations, of the base compound, methods of use, new indications (new use), changes in strength or dosage; new dosing route; combinations with other drugs; segmented patient populations; different processes for manufacturing; packaging/patient instructions; pharmaco-kinetic/therapeutic parameters.
- Tertiary patents: Using medical devices paired with an active ingredient that may be off patent to prolong market exclusivity.

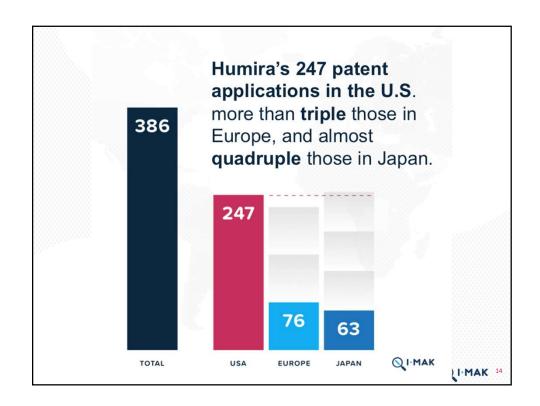


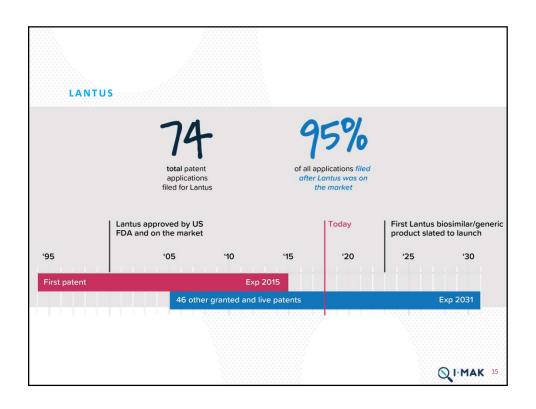




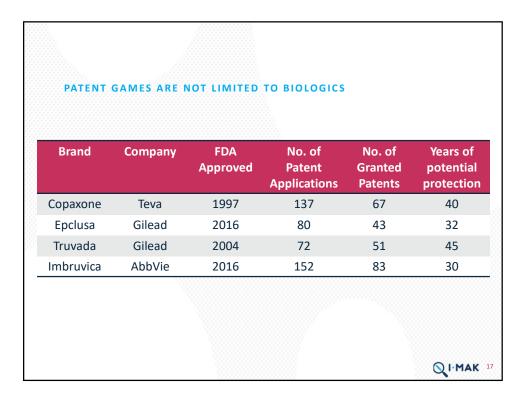








Branded Biologic Product	Total # patent applications filed	Potential years blocking biosimilar competition	% of patent applications filed after FDA approval
Humira	247	39	89%
Avastin	219	43	73%
Rituxan	204	47	90%
Herceptin	186	48	84%
Remicade	123	32	93%
Lantus	74	37	95%
Eylea*	67	31	37%
Enbrel	57	39	72%
average	151	40	80%









REAL REFORMS FOR REAL CHANGE

- Modify the "inventiveness" standard for patents
- Severely restrict continuation applications at the USPTO

QI-MAK 21



We can't solve the drug pricing crisis until we solve the drug patent problem

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