

Ethics review committee function, with special reference to GCP and clinical trials

FERCSL workshop on GCP and clinical trials, October 2015

Panduka Karunanayake

What I hope to cover...

- What are the various 'GCP' guidelines?
 - A brief history of 'GCP'
- What do they **say** specifically about how research ethics committees should function?
- How should committees **approach** such guidelines?
 - What are the pitfalls?

The foundation

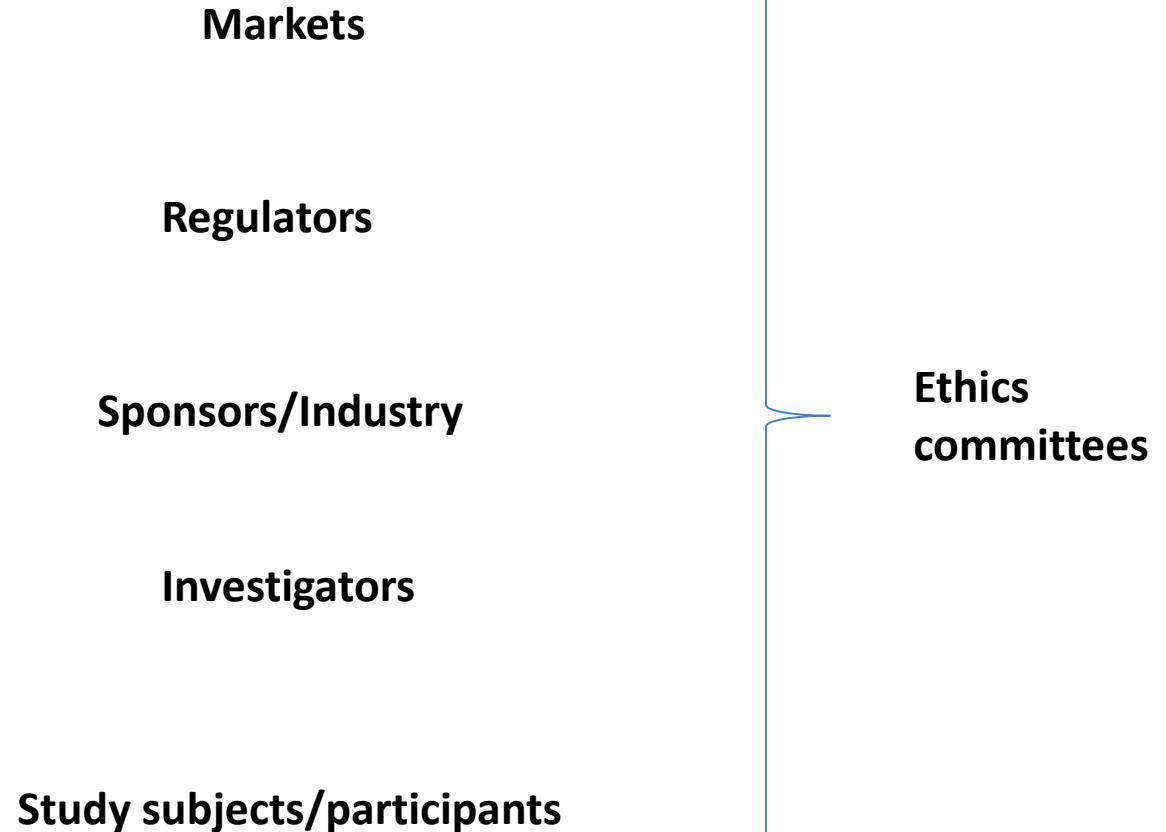
The bedrock of research ethics

- The World Medical Association Declaration of Helsinki
 - Latest edition: 2013
 - Published in *Journal of the American Medical Association (JAMA)*, November 27, 2013
 - 2013; 310(20): 2191

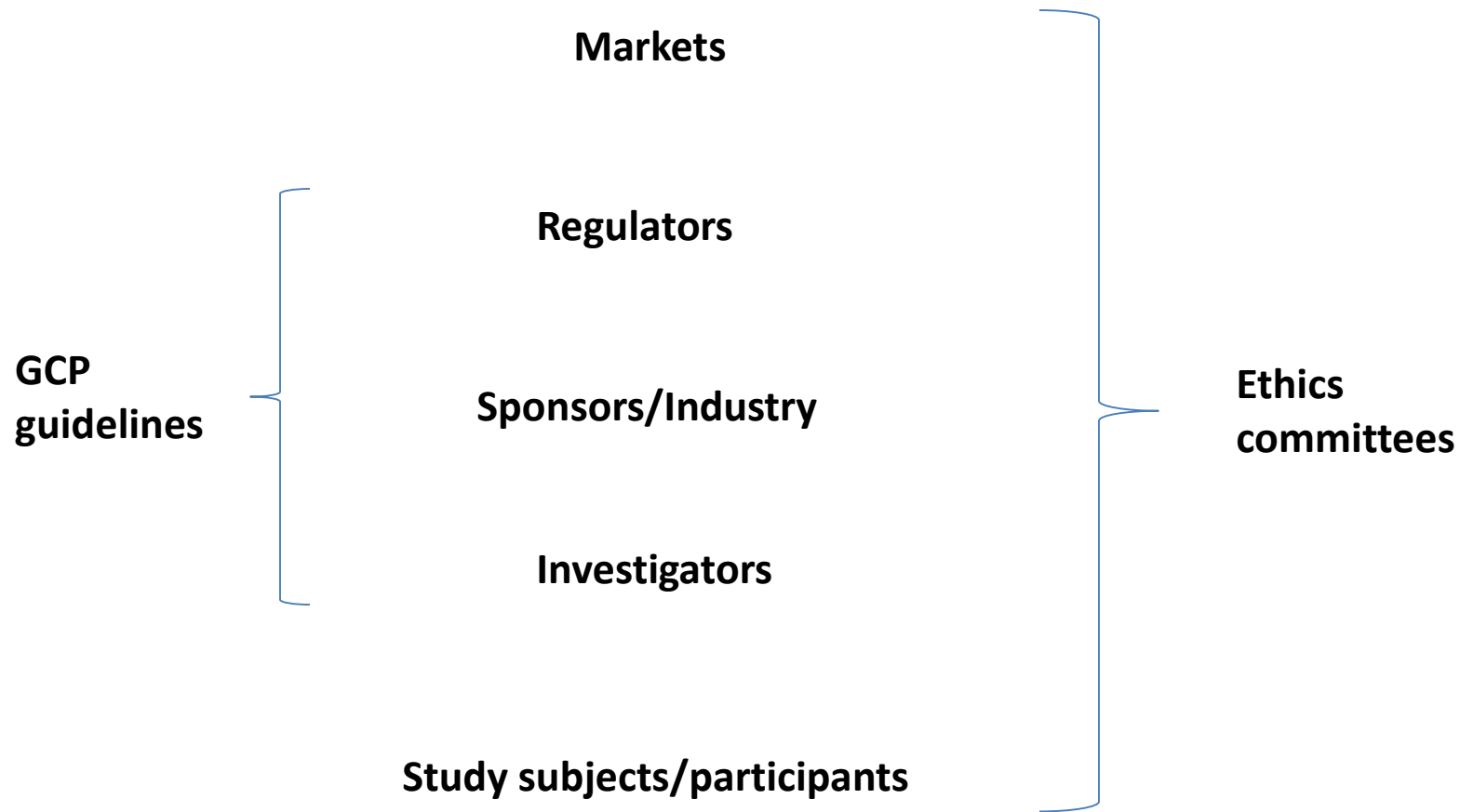
The 'work' of ethics: balancing benefits and risks

Benefits	Risks
The importance of scientific validity to ensure that the conclusions are generalizable	Study subjects
The need to ensure the reliability of data	Healthcare sector
The importance of wide dissemination of the findings and conclusions	Research and scientific community
	The wider community
	Environment

The world of clinical trials



The world of clinical trials



About 'GCP'

A brief history

Time	Event
1970s-1980s	Increasing cost of drug development and obtaining regulatory approval. Decreasing number of new chemical entities (NCEs). Increasing need to reach out to global markets: US, EU, Japan.

A brief history

Time	Event
1970s-1980s	Increasing cost of drug development and obtaining regulatory approval. Decreasing number of new chemical entities (NCEs). Increasing need to reach out to global markets: US, EU, Japan.
Late-1980s	US-Japan, EU-Japan and EU-US ('bipartite') trade negotiations: Can the different regulatory guidelines be combined? (Hence, 'tripartite.')

A brief history

Time	Event
1970s-1980s	<p>Increasing cost of drug development and obtaining regulatory approval.</p> <p>Decreasing number of new chemical entities (NCEs).</p> <p>Increasing need to reach out to global markets: US, EU, Japan.</p>
Late-1980s	<p>US-Japan, EU-Japan and EU-US ('bipartite') trade negotiations: Can the different regulatory guidelines be combined? (Hence, 'tripartite.')</p>
1996	<p>International Conference for the Harmonization of Technical Requirements for Registration of Pharmaceuticals for Human Use ('the ICH'). The Requirement E6(R1) refers to clinical trials, and was called 'Guidelines for Good Clinical Practice' ('GCP'). This is being currently revised.</p>

A brief history

Time	Event
1970s-1980s	Increasing cost of drug development and obtaining regulatory approval. Decreasing number of new chemical entities (NCEs). Increasing need to reach out to global markets: US, EU, Japan.
Late-1980s	US-Japan, EU-Japan and EU-US ('bipartite') trade negotiations: Can the different regulatory guidelines be combined? (Hence, 'tripartite.')
1996	International Conference for the Harmonization of Technical Requirements for Registration of Pharmaceuticals for Human Use ('the ICH') . The Requirement E6(R1) refers to clinical trials, and was called 'Guidelines for Good Clinical Practice' (' GCP '). This is being currently revised.
Late-1990s	These are later adopted by Canada, Australia, Switzerland, etc.

A brief *future*

Time	Event
1970s-1980s	Increasing cost of drug development and obtaining regulatory approval. Decreasing number of new chemical entities (NCEs). Increasing need to reach out to global markets: US, EU, Japan.
Late-1980s to early-1990s	US-Japan, EU-Japan and EU-US ('bipartite') trade negotiations: Can the different regulatory guidelines be combined? (Hence, 'tripartite.')
1996	International Conference for the Harmonization of Technical Requirements for Registration of Pharmaceuticals for Human Use ('the ICH'). The Requirement E6(R1) refers to clinical trials, and was called 'Guidelines for Good Clinical Practice' (' GCP '). This is being currently revised.
Late-1990s	These are later adopted by Canada, Australia, Switzerland, etc.
The future	The Industry's goal: "A ' single dossier ' for the whole world." The Industry's dream: "Registration in US/EU/Japan leads to automatic registration in the whole world."

Towards that future

Year	Organization	Document
2000	World Health Organization (WHO)	Operational Guidelines for Ethics Review Committees that Review Biomedical Research
2002	Council for International Organizations of Medical Sciences (CIOMS)	International Ethical Guidelines for Biomedical Research Involving Human Subjects
2002	WHO	Handbook for Good Clinical Research Practice (GCP)
2006	Indian Council of Medical Research (ICMR)	Ethical Guidelines for Biomedical Research on Human Participants
2016	The next edition of the ICH-GCP is expected...	

What they say about how committees
should function (and some points to
ponder)

The best guide...

- The WHO Handbook (2002)
 - Combines the contents of these different guidelines
 - Fragments the whole research ‘process’ into 15 ‘activities’
 - States research ethics into 14 ‘principles’
 - Re-arranges the contents of the other guidelines under these principles, and provides references to the relevant sections in them

The 14 'WHO Principles of GCP'

1. Ethical conduct
2. Protocol
3. Risk identification
4. Benefit-risk assessment
5. Review by Independent Ethics Committee/Independent Review Board
6. Protocol compliance
7. Informed consent
8. Continuing review/on-going benefit-risk assessment
9. Investigator qualifications
10. Staff qualifications
11. Records
12. Confidentiality/privacy
13. Good manufacturing practice
14. Quality systems

The 14 'WHO Principles of GCP'

1. Ethical conduct
2. Protocol
3. Risk identification
4. Benefit-risk assessment
- 5. *Review by Independent Ethics Committee/Independent Review Board***
6. Protocol compliance
7. Informed consent
8. Continuing review/on-going benefit-risk assessment
9. Investigator qualifications
10. Staff qualifications
11. Records
12. Confidentiality/privacy
13. Good manufacturing practice
14. Quality systems

Principle 5: Review by IEC/IRB

- Principle:
 - Research involving humans should receive IEC/IRB approval/favourable opinion prior to initiation.
- Application:
 - Composition of committee
 - Review of protocol
 - Necessity for prior approval
 - Types of decision
- Implementation
 - A to-do list
- References
 - ICH E6, sections 3.1, 3.2, 3.3, 3.4
 - WHO Op Guidelines for ERCs, sections 4, 6, 7, 8, 9, 10
 - CIOMS, guidelines 2, 3

Principle 5: Review by IEC/IRB

- Principle:
 - Research involving humans should receive IEC/IRB approval/favourable opinion prior to initiation.
- Application:
 - Composition of committee
 - Review of protocol
 - Necessity for prior approval
 - Types of decision
- Implementation
 - A to-do list
- **References**
 - ***ICH E6, sections 3.1, 3.2, 3.3, 3.4***
 - ***WHO Op Guidelines for ERCs, sections 4, 6, 7, 8, 9, 10***
 - ***CIOMS, guidelines 2, 3***

ICH E6 (3.1)

- Responsibilities:
 - Safeguarding the rights, safety and wellbeing of trial subjects
 - Documents that should be obtained, how to give its views
 - Qualifications of the investigator
 - Continuing review (at least once a year)
 - Requesting more information
 - Special situations
 - Non-therapeutic trial with guardian's consent, prior consent not possible
 - Payments

ICH E6, cont. (3.2)

- Composition, functions and operation
 - Number of members and their areas of expertise
 - Non-scientific, non-institutional
 - SOPs, minutes, compliance with guidelines and regulations
 - Quorum, which members can vote
 - Investigator can provide information, but cannot take part in deliberations or vote
 - Inviting non-members with expertise

ICH E6, cont. (3.3)

- Procedures

- Composition, authority
- Conduct of meetings
- Conducting initial/continuing review and determining frequency of review
- Expedited review and minor amendments
- Specify that only prior approval is given
- Specify that there should be no deviation, except when necessary to eliminate immediate hazards to subjects or when changes are only logistical/organizational
- Reporting of deviations, changing risk, serious and unexpected ADRs, new information on risk
- Notifying decisions

ICH E6, cont. (3.4)

- Records

- What records to keep and for how long (minimum 3 years)
- “The IRB/IEC may be asked by investigators, sponsors or regulatory authorities to provide its written procedures and membership lists.”

Points to ponder...

- Qualifications are only of the investigator, not other staff
 - Only qualification, not time commitment etc. considered
- Deviations without prior approval allowed in 2 situations
- Only *serious + unexpected ADRs* need to be reported to the committee
- Information that sponsor/investigator/etc. can ask do not include those that are specific to a project

ICH E6 and the future of clinical trials

- The duration of subject follow up for trials testing long-term, non-essential drugs in chronic illness
 - The risk of long-term side effects due to non-essential drugs
- Reporting adverse events
 - Only SUSARs need to be reported
 - The evidence base for adverse drug reactions is being shifted from regulators and the medical profession to the industry
- Animal carcinogenicity testing for long-term drugs
 - A case of de-harmonization!

Investigator has first knowledge of Adverse Event.

The investigator shall report all serious adverse events immediately [within 24 hours] to the Sponsor except for those that the protocol or investigator's brochure identifies as not requiring immediate reporting. (2001/20/EC article 16(1), GCP 4.11.1)

Adverse events and/or laboratory abnormalities identified in the protocol as critical to safety evaluations shall be reported to the sponsor according to the reporting requirements and within the time periods specified in the protocol. (2001/20/EC article 16(2), GCP 4.11.2)

Immediate reporting should allow the sponsor to take the appropriate measures to address potential new risks in a clinical trial. Therefore, the immediate report should be made by the investigator within a very short period of time and under no circumstances should this exceed 24 hours following knowledge of the serious adverse event. (Detailed guidance CT-3 section 4.3.1. (29))

The judgement as to whether the event is serious is usually made by the reporting investigator. (Detailed guidance CT-3 section 7.3.1. (57))

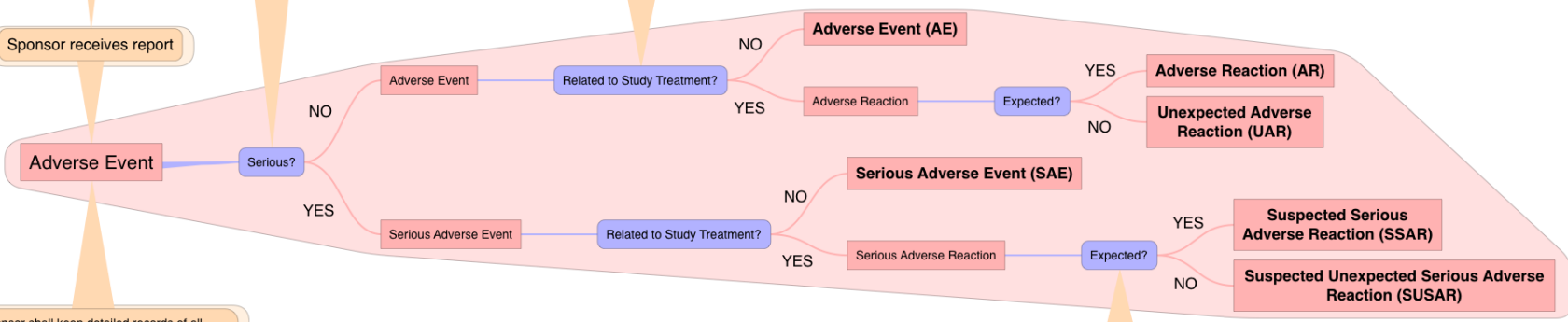
The assessment of whether there is a reasonable possibility of a causal relationship is usually made by the investigator.

In the absence of information on causality from the reporting investigator, the sponsor should consult the reporting investigator and encourage him to express an opinion on this aspect.

The causality assessment given by the investigator should not be downgraded by the sponsor. If the sponsor disagrees with the investigator's causality assessment, the opinion of both the investigator and the sponsor should be provided with the report. (Detailed guidance CT-3 section 7.3.2.)

Sponsor receives report

The sponsor shall keep detailed records of all adverse events which are reported to him by the investigator or investigators. These records shall be submitted to the Member States in whose territory the clinical trial is being conducted, if they so request. (2001/20/EC article 16(4))



Assessment of expectedness is usually done by the sponsor.

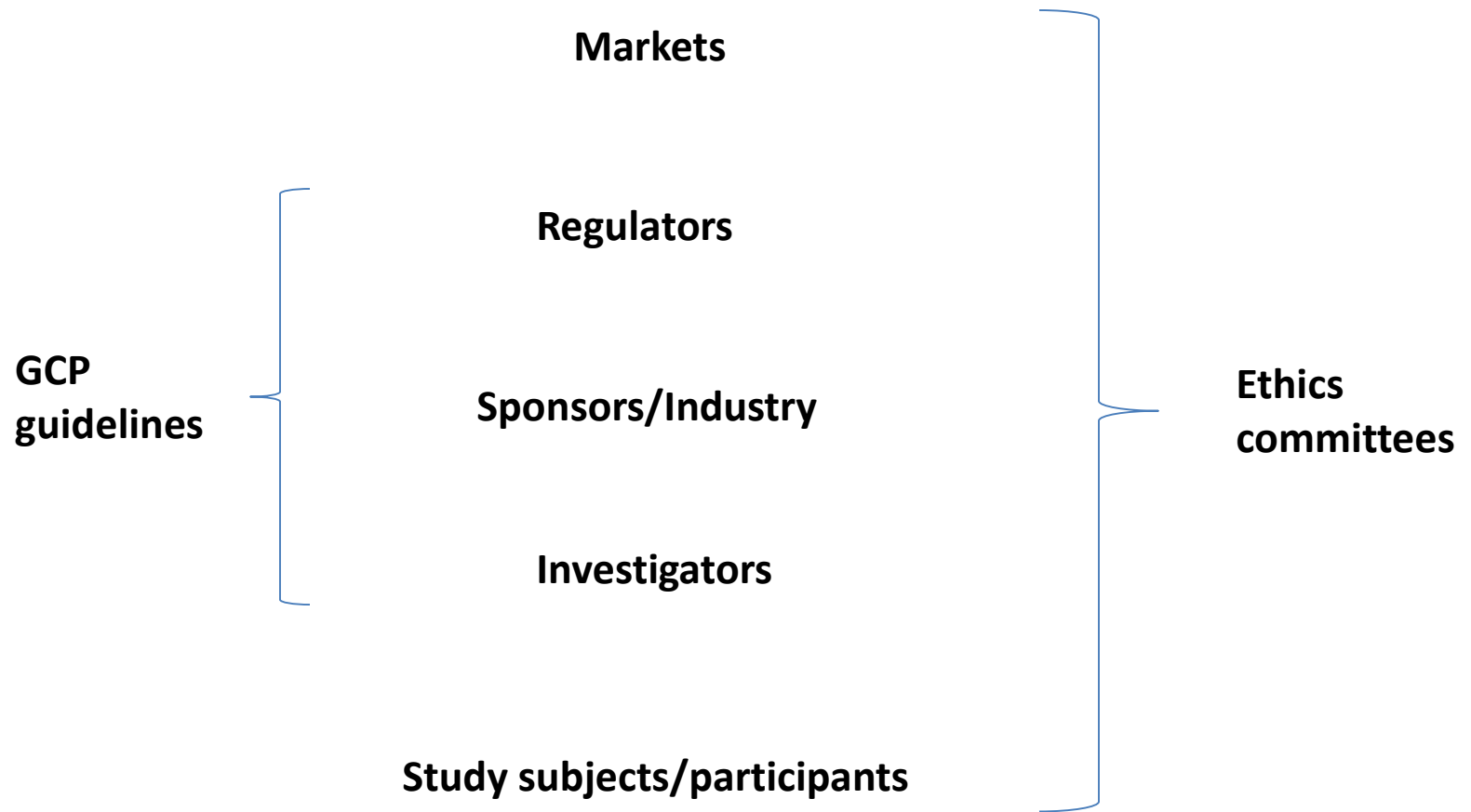
The 'expectedness' of a serious adverse reaction is assessed in the light of the Reference Safety Information.

If information on expectedness has been made available by the reporting investigator, this should be taken into consideration by the sponsor. (Detailed guidance CT-3 article 7.3.3.)

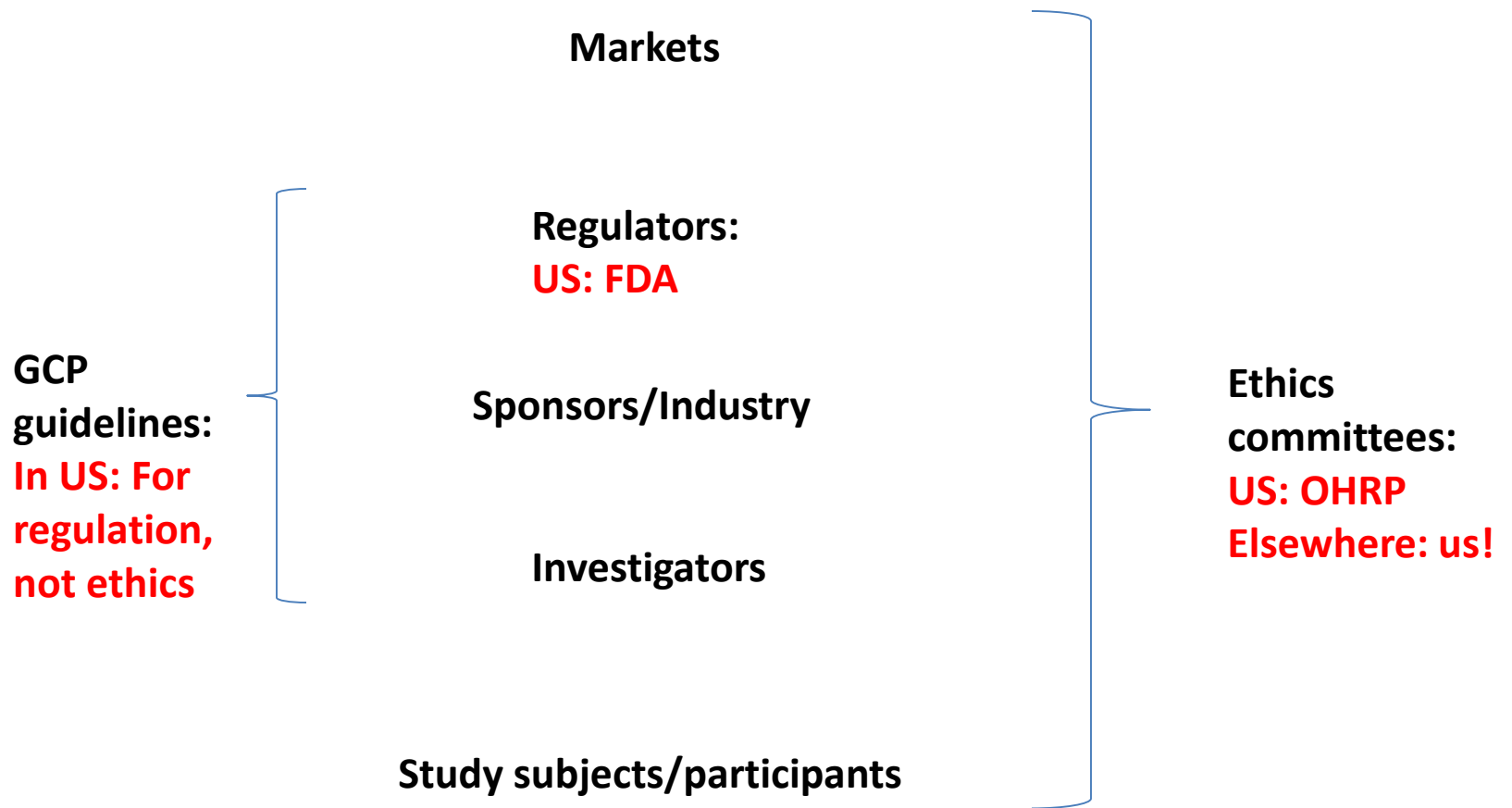
ICH E6 and the future of clinical trials

- The duration of subject follow up for trials testing long-term, non-essential drugs in chronic illness
 - The risk of long-term side effects due to non-essential drugs
- Reporting adverse events
 - Only SUSARs need to be reported
 - The evidence base for adverse drug reactions is being shifted from regulators and the medical profession to the industry
- Animal carcinogenicity testing for long-term drugs
 - A case of de-harmonization!

The world of clinical trials



The world of clinical trials



CIOMS (guideline 2)

- Ethical review committees
 - The need for scientific review
 - The nature and composition of committees
 - The need for prior approval
 - Further review, including, if necessary, monitoring

CIOMS (guideline 3)

- Ethical review of externally sponsored research
 - Ethical standards and double standards
 - The research must be “responsive” to national or local “health needs and priorities” in the host country

Points to ponder (1)

- Scientific review vis-à-vis ethical review
- Emergency compassionate use
- Special issues relating to multi-center research using one protocol
- Sanctions
- The roles of sponsors vis-à-vis investigators
- The allusion to double standards

Points to ponder, cont. (2)

- Externally sponsored research in low-resource settings
 - It must be “responsive”
 - “Any intervention or product developed, or knowledge generated, will be made reasonably available for the benefit of that population or community.”
 - Pre-trial discussions should consider the needed healthcare infrastructure, royalties, subsidies, IPR, drug distribution
 - If drug is found to be beneficial, it should be provided to subjects until it is registered in that country

Points to ponder, cont. (3)

- The use of placebo
- Equitable distribution of benefit and risk
- The non-use of special groups
 - Children, the elderly, the pregnant, vulnerable groups
- The over-use of some groups
 - Poor-resource settings, settings with little access to rights

Take home messages

- There are *several* 'GCP' guidelines, with subtle differences between them
- Investigators are required to *adhere* to these guidelines strictly – but ethics committees *can (and should)* think beyond them, if they are to maximize the benefit-risk balance
- The *WHO Handbook* is a good compendium to navigate this complex field
- The **CIOMS guidelines** probably provides the current best guide to ethics committees in underdeveloped countries

Thank you!