

Addendum: Singapore Law

Governing Research Involving Human Participants

General Comments

Standards and Elements listed below address areas where policies and procedures must address specific requirements in the following laws:

- Medicines Act (Cap. 176)
- Medicines (Clinical Trials) Regulations
- Research Involving Human Subjects: Guidelines for IRBs (2004)
- Singapore Guideline for Good Clinical Practice (1999)
- Ethical Guidelines on Research Involving Human Subjects (1997)
- Ministry of Health Operational Guidelines for Institutional Review Boards (2007)
- Ministry of Health Code of Ethical Practice in Human Biomedical Research (2009)

Domain I: Organization

U	Standard I-1: The Organization has a systematic and comprehensive Human Research		
	Protection Program with appropriate leadership.		
Element I.1.B. The Organization delegates responsibility for the Human Research Protection Program to an official with sufficient standing, authority, and independence to ensure implementation and maintenance of the program.	IRBs or ECs should be appointed by and report to at least an authority at the level of the Chief Executive Officer of an organization, or the Principal of a university. (Research Involving Human Subjects: Guidelines for IRBs ("Guidelines for IRBs") 5.30 and 5.31; Ethical Guidelines on Research Involving Human Subjects, 3.2.1.)		
Element I.1.C. The Organization has and follows written policies and procedures that allow the Institutional Review Board or Ethics Committee to function independently of other organizational entities in protecting research participants.	Policies and procedures indicate that the fundamental responsibility of an IRB or EC is to act as an ethics review gateway for all research. (Guidelines for IRBs, 5.20) Policies and procedures indicate the organization grants the IRB or EC the authority to audit research. (Guidelines for IRBs, 8.6)		
Element I.1.D. The Organization has and follows written policies and procedures setting forth the ethical standards and practices of the Human Research Protection Program. Relevant policies and procedures are made available to Sponsors, Researchers, Research Staff, research participants, and the Institutional Review Board or Ethics Committee, as appropriate.	 In addition to the ethical principles which have their origins in the Declaration of Helsinki, the ethical principles that govern the conduct of research involving human participants include (Guidelines for IRBs, 4.17): Respect for the human body, welfare and safety, and for religious and cultural perspectives and traditions of human subjects. Avoidance of conflicts of interests or appearance of interest. 		
Element I.1.F. The Organization has and follows written policies and procedures for reviewing the scientific or scholarly validity of a proposed research study. Such	Policies and procedures describe the process to have scientific review of research conducted prior to ethics review by the IRB or EC. (Guidelines for IRBs, 5.22).Policies and procedures should describe:Who conducts scientific review.		

procedures are coordinated with the ethics review process.	• The process for making the results available to the IRB or EC. (Guidelines for IRBs, 5.23)	
Standard I-4: The Organiz	zation responds to the concerns of research participants.	
Element I.4.A. The Organization has and follows written policies and procedures that establish a safe, confidential, and reliable channel for current, prospective, or past research participants or their designated representatives that permits them to discuss problems, concerns, and questions; obtain information; or offer input with an informed	Participants should be provided direct access to the full time secretariat of the IRB or EC to a senior officer of the institution charged with quality service standards and control to provide feedback or express concerns. (Guidelines for IRBs, 5.73). A registered medical practitioner or a senior member of the research team should be appointed to serve as a participant contact. (Guidelines for IRBs, 5.74).	
individual who is unaffiliated with the specific research		
protocol or plan.		
Element I.6.B. The Organization has and follows written policies and procedures to identify, manage, and minimize or eliminate individual financial conflicts of interest of researchers and research	The holder of a certificate or any person assisting him in a clinical trial or any subject in a clinical trial shall not, directly or indirectly, shall not have any financial interest in the trial. (Medicines (Clinical Trials) Regulations, item 20)	
staff that could influence the conduct of the research or the integrity of the Human Research Protection Program. The Organization works with the Institutional Review Board or Ethics Committee in ensuring that financial conflicts of interest		
are managed and minimized or eliminated, when		
appropriate.	ation has and follows written wellstep an lange t	
	zation has and follows written policies and procedures to	
ensure that the use of any investigational or unlicensed test article complies with all applicable legal and regulatory requirements.		
Element I.7.A. When research involves investigational or unlicensed test articles, the Organization confirms that the test articles have appropriate regulatory approval or meet	No clinical trial shall be conducted except in accordance with these Regulations. (Medicines (Clinical Trials) Regulations, item 3) No clinical trial shall be conducted except at such place as may be specified in the certificate. (Medicines (Clinical Trials) Regulations, item 8)	
exemptions for such approval.		
	al Review Board or Ethics Committee	
Standard II-1: The structure and composition of the IRB or EC are appropriate to the amount and nature of the research reviewed and in accordance with requirements of		
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applicable laws, regulations, codes, and guidance.

applicable laws, regulation	
Element II.1.A. The IRB or	The chair of each IRB or EC shall be a registered medical practitioner.
EC membership permits	(Ministry of Health Operational Guidelines for Institutional Review
appropriate representation	
at the meeting for the types	Boards 7.12(e))
of research under review,	The composition of the IRB or EC includes (Ministry of Health
and this is reflected on the	Operational Guidelines for Institutional Review Boards 7.12(e)):
IRB or EC roster. The IRB or	Operational Outdennes for institutional Review Boards 7.12(e)).
EC has one or more	• At least one unaffiliated member whose primary concerns are non-
unaffiliated members; one or	scientific.
more members who	
represent the general	• At least one unaffiliated medical practitioner.
perspective of participants;	
one or more members who	
do not have scientific	
expertise; one or more	
members who have	
scientific or scholarly	
expertise; and, when the IRB	
or EC regularly reviews	
research that involves	
vulnerable participants, one	
or more members who are	
knowledgeable about or	
experienced in working with	
such participants.	
Standard II-2: The IRB or	EC systematically evaluates each research protocol or plan to
ensure the protection of	participants.
Element II.2.C: The IRB or	Approval by a two third majority of the quantum is required before any
EC has and follows written	Approval by a two-third majority of the quorum is required before any
policies and procedures for	research may be approved. (Ministry of Health Operational Guidelines
conducting meetings by the	for Institutional Review Boards 7.12(g))
convened IRB or EC.	
Element II.2.F. The IRB or EC	
has and follows written	Researchers report unusual or unexpected events within 15 days of
policies and procedures for	occurrence. (Guidelines for IRBs, 5.26(b))
addressing unanticipated	Researchers report unexpected serious adverse events related to the
problems involving risks to	research immediately to the IRB or EC. (Ministry of Health Operational
participants or others, and	
for reporting these actions,	Guidelines for Institutional Review Boards 8.3)
when appropriate.	
Element II.2.H. The IRB or	
EC has and follows policies	A lead IRB or EC should be appointed for multi-site research which is
and procedures for	responsible for the primary ethics review of the research proposal and for
managing multisite research	keeping other participating IRBs or ECs informed of any decisions.
by defining the	(Guidelines for IRBs, 5.50)
responsibilities of	
participating sites that are	
relevant to the protection of	
research participants, such	
as reporting of unanticipated	
problems or interim results.	
	FO provides additional and taking for in this back with
	EC provides additional protections for individuals who are
	r undue influence and participate in research.
Element II.4.A. The IRB or	Children should not be enrolled in research except when the research
EC has and follows written	cannot be conducted on adults. (Ethical Guidelines on Research
policies and procedures for	cannot de conducted on adunts. (Edinear Ourdennies our Research

determining the risks to	Involving Human Subjects, 2.5.5.1.)		
prospective participants who are vulnerable to	Pregnant women should not be enrolled in research except where		
coercion or undue influence	pregnancy is an essential condition of the research (Ethical Guidelines on		
and ensuring that additional	Research Involving Human Subjects 2.5.6.1.)		
protections are provided as	Prisoners should not be enrolled in research except where being		
required by applicable laws,	incarcerated is an essential feature of the research. (Ethical Guidelines on		
regulations, codes, and	Research Involving Human Subjects 2.5.6.2.)		
guidance.			
Domain III: Researche			
	to following applicable laws and regulations, Researchers and		
Research Staff adhere to	ethical principles and standards appropriate for their		
discipline. In designing a	nd conducting research studies, Researchers and Research		
Staff have the protection	of the rights and welfare of research participants as a primary		
concern.			
Element III.1.G. Researchers	Researchers are responsible to inform participants of the opportunity to		
and Research Staff have a	turn to the IRB or EC for advice if they are in any way unhappy with the		
process to address participants' concerns,	research protocol. (Ethical Guidelines on Research Involving Human		
complaints, or requests for	Subjects 3.2.6.)		
information.	546 Jeeus 5.2.0.)		
Standard III-2: Researche	ers and Research Staff meet requirements for conducting		
research with participants and comply with all applicable laws, regulations, codes, and			
guidance; the organization's policies and procedures for protecting research			
	participants; and the IRB's or EC's determinations.		
Element III.2.D. Researchers and Research Staff follow	Researchers report to the IRB or EC:		
reporting requirements in	• Unusual or unexpected events within 15 days of occurrence.		
accordance with applicable	(Guidelines for IRBs, 5.26(b))		
laws, regulations, codes,	• Changes to the research to eliminate immediate hazards within seven		
and guidance; the	days. (Guidelines for IRBs, 5.26)		
organization's policies and	 Final reports within three months of completion of projects 		
procedures; and the IRB's or EC's requirements.	1 1 0		
EC 5 requirements.	(Guidelines for IRBs, 5.26)		