

OPINION

INTERNATIONAL ETHICAL GUIDELINES FOR BIOMEDICAL RESEARCH INVOLVING HUMAN SUBJECTS

Medical scientific writing is most often the logical sequence of Biomedical research involving human subjects. Biomedical research should be conducted in an ethical way. The term "research" refers to a class of activity designed to develop or contribute to generalized knowledge. Ethical principles about biomedical sciences was first introduced by the World Medical Association and was set forth in the *Declaration of Helsinki in 1964*.

The *Declaration of Helsinki* is the *fundamental document* in the field of ethics in biomedical research. Revisions and updating gradually were necessary, related to human rights as research subjects, as well as of health professionals as researchers. Adopted in 1964 in Helsinki Finland, it was first amended in 1975 in Tokyo, later revisions were made in Italy 1983 and in Hongkong 1989. The Declaration of Helsinki has influenced the formulation of many international codes of conduct.

CIOMS (Council for International Organizations of Medical Sciences) in 1993 published *CIOMS - Guidelines*. The WHO in 1995 made *Guidelines for Good Clinical Practice*. In 2002 in Geneva the CIOMS in collaboration with the WHO prepared the "*International Ethical Guidelines for Biomedical Research involving Human Subjects*." The latter has far-reaching consequences as the guidelines should be adopted by all countries, as the name already said International Ethical Guidelines. Hence, Biomedical Research involving human subjects when performed **not** in accord with these guidelines is considered not ethical, resulting in an unethical medical scientific report and writing. Ethical justifications and scientific validity goes hand-in-hand.

Cases of Biomedical Research involving human subjects should follow the International ethical guidelines. There are 21 guidelines to follow:

The Guidelines

- | | | | |
|-----------|----|---|--|
| Guideline | 1 | : | Ethical justification and scientific validity of biomedical research involving human beings |
| Guideline | 2 | : | Ethical review committees |
| Guideline | 3 | : | Ethical review of externally sponsored research |
| Guideline | 4 | : | Individual informed consent |
| Guideline | 5 | : | Obtaining informed consent : Essential information for Prospective research subjects |
| Guideline | 6 | : | Obtaining informed consent : Obligation of sponsors and Investigators |
| Guideline | 7 | : | Inducement to participate |
| Guideline | 8 | : | Benefits and risks of study participation |
| Guideline | 9 | : | Special limitations on risk when research involves individuals who are not capable of giving informed consent |
| Guideline | 10 | : | Research in populations and communities with limited resources |
| Guideline | 11 | : | Choice of control in clinical trials |
| Guideline | 12 | : | Equitable distribution of burdens and benefits in the selection of groups of subjects in research |
| Guideline | 13 | : | Research involving vulnerable persons |
| Guideline | 14 | : | Research involving children |
| Guideline | 15 | : | Research involving individuals who by reason of mental or behavioral disorders are not capable of giving adequately informed consent |
| Guideline | 16 | : | Woman as research subjects |
| Guideline | 17 | : | Pregnant women as research participants |
| Guideline | 18 | : | Safeguarding confidentiality |
| Guideline | 19 | : | Right of injured subjects to treatment and compensation |
| Guideline | 20 | : | Strengthening capacity for ethical and scientific review and biomedical research |
| Guideline | 21 | : | Ethical obligation of external sponsors to provide healthcare services |

Nanizar Zaman-Joenoes
Department of Medical Pharmacy
Airlangga University School of Medicine