

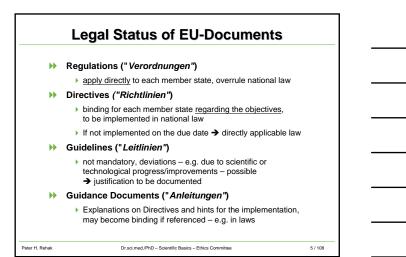


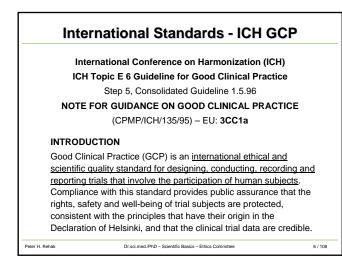
	Medical Research – Subjects	
	➤ Medicinal products (drugs) Drug Law ("Arzneimittelgesetz", AMG), ICH-GCP-Guideline → comprehensive regulations	
	Medical devices	
	Law on Medical Devices ("Medizinproduktegesetz," MPG), EN-ISO-Norm 14155 \rightarrow comprehensive regulations	
	New medical methods	
	Federal Hospital Act ("Kranken- und Kuranstaltengesetz", KAKuG) – not directly applicable \rightarrow laws of the Federal States \rightarrow Requirement to seek the opinion of an Ethics Committee	
	Ethical Standards	
	► Applied medical research in human subjects University Act ("Universitätsgesetz", UG 2002) → Requirement to seek the opinion of an Ethics Committee	
	Ethical Standards	
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Relevant EU-Directives

- Directive 2001/20/EC "Clinical Trials Directive"
 Harmonisation: Clinical trials on medicinal products
 <u>One</u> Ethics Committee opinion <u>per member state</u> for multicentre trials
 → implemented in the Drug Law (AMG)
 Directive 2005/20/FC "Cond Clinical Provision Princetive
- Directive 2005/28/EC "Good Clinical Practice Directive" Complement to the 2001/20/EC: "Good Clinical Practice"-Guidelines, manufacturing, importing, inspections, etc. → implemented in the Drug Law (AMG), decrees in preparation
- Directive 90/385/EEC "Active Implantable Devices"*
 Directive 93/42/EEC "Medical Devices"*
 Directive 98/79/EC "In-Vitro Diagnostics"
 * Amended by the Directive 2007/47/EC
 Comprehensive regulations for medical devices, CE-marking, free
 movement of goods, clinical evaluation / clinical investigation, vigilance
 system, etc. → implemented in the Law on Medical Devices (MPG)
 (revision overdue but still pending)

Peter H. Rehak





P.H.Rehak

ICH GCP

INTRODUCTION (continued)

The objective of this ICH GCP Guideline is to provide a <u>unified</u> <u>standard</u> for the <u>European Union</u> (EU), <u>Japan</u> and the <u>United States</u> to facilitate the <u>mutual acceptance of clinical data</u> by the <u>regulatory</u> <u>authorities</u> in these jurisdictions.

The guideline was developed with consideration of the current good clinical practices of the <u>European Union</u>, <u>Japan</u>, and the <u>United</u> <u>States</u>, as well as those of <u>Australia</u>, <u>Canada</u>, the <u>Nordic countries</u> and the World Health Organization (WHO).

This guideline should be followed when generating clinical trial data that are intended to be submitted to regulatory authorities.

The principles established in this guideline <u>may also be applied to</u> <u>other clinical investigations</u> that may have an impact on the safety and well-being of human subjects.

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Peter H. Rehak

Peter H. Reha

ICH GCP – Chapters

1. GLOSSARY

2. THE PRINCIPLES OF ICH GCP

3. INSTITUTIONAL REVIEW BOARD / INDEPENDENT ETHICS COMMITTEE (IRB/IEC)

4. INVESTIGATOR

5. SPONSOR

6. CLINICAL TRIAL PROTOCOL AND PROTOCOL AMENDMENT(S)

7. INVESTIGATOR'S BROCHURE

8. ESSENTIAL DOCUMENTS FOR THE CONDUCT OF A CLINICAL TRIAL

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ICH GCP – Principles THE PRINCIPLES OF ICH GCP 2. Clinical trials should be conducted in accordance with the 2.1 ethical principles that have their origin in the Declaration of Helsinki, and that are consistent with GCP and the applicable regulatory requirement(s). Clinical trials should be scientifically sound, and described in 2.5 a clear, detailed protocol. 2.6 A trial should be conducted in compliance with the protocol that has received prior institutional review board (IRB)/ independent ethics committee (EC) approval/favourable opinion.

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ICH-GCP – Structure of a trial protocol		
1.	General Information	
2.	Background Information	
3.	Trial Objectives and Purpose	
4.	Trial Design	
5.	Selection and Withdrawal of Subjects	

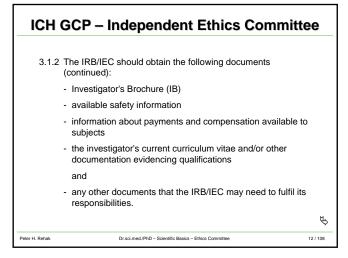
- 6. Treatment of Subjects
- 7. Assessment of Efficacy
- 8. Assessment of Safety 9.
- Statistics
- 10. Direct Access to Source Data/Documents 11. Quality Control and Quality Assurance
- 12. Ethics
- 13. Data Handling and Record Keeping
- 14. Financing and Insurance
- 15. Publication Policy
- 16. Supplements

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ICH GCP – Independent Ethics Committee

3.1.2 (continued):

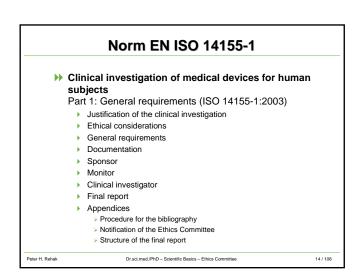
The IRB/IEC should review a proposed clinical trial within a reasonable time and document its views in writing, clearly identifying the trial, the documents reviewed and the dates for the following:

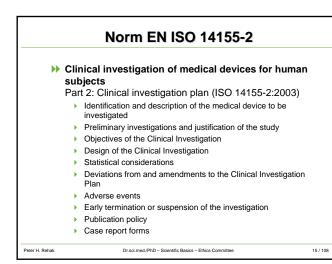
- approval/favourable opinion;
- modifications required prior to its approval/favourable opinion;
- disapproval/negative opinion;
- and

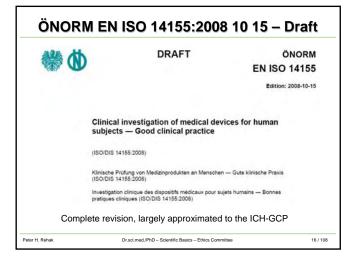
Peter H. Rehak

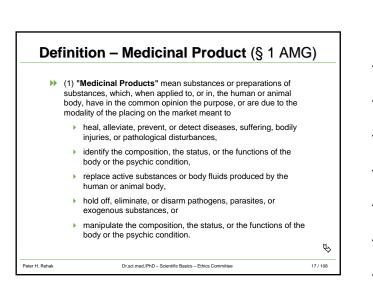
- termination/suspension of any prior approval/favourable opinion.

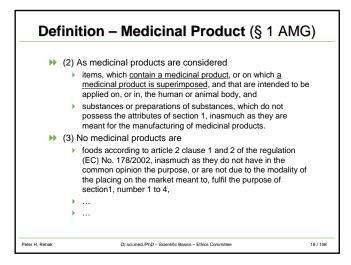
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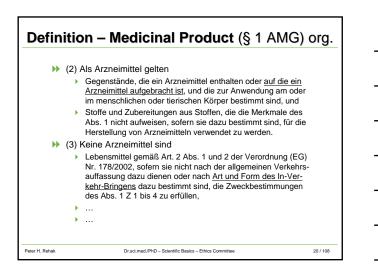
Definition – Medicinal Product (§ 1 AMG) org.

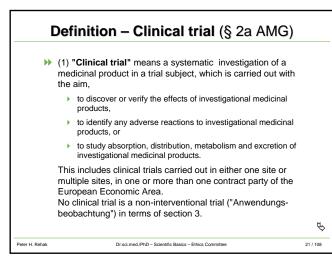
- (1) "Arzneimittel" sind Stoffe oder Zubereitungen aus Stoffen, die nach der allgemeinen Verkehrsauffassung dazu dienen oder nach Art und Form des Inverkehrbringens dazu bestimmt sind, bei Anwendung am oder im menschlichen oder tierischen Körper
 - Krankheiten, Leiden, Körperschäden oder krankhafte Beschwerden zu heilen, zu lindern, zu verhüten oder zu erkennen,
 - die Beschaffenheit, den Zustand oder die Funktionen des Körpers oder seelische Zustände erkennen zu lassen,
 - vom menschlichen oder tierischen K
 örper erzeugte Wirkstoffe oder K
 örperfl
 üssigkeiten zu ersetzen,
 - Krankheitserreger, Parasiten oder körperfremde Stoffe abzuwehren, zu beseitigen oder unschädlich zu machen oder

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 die Beschaffenheit, den Zustand oder die Funktionen des Körpers oder seelische Zustände zu beeinflussen.





Definition – Clinical trial (§ 2a AMG)

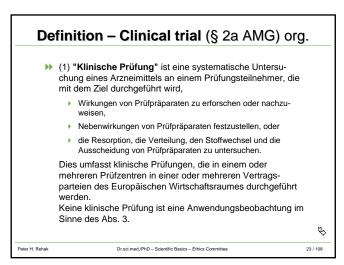
- (2) "Multi-centre clinical trial" is a clinical trial conducted according to a single protocol
 - > at more than one site, and therefore
 - by more than one investigator,
 - whereas the centres may be located in one or more than
 - one contract party of the European Economic Area, or
 - in contract parties and third countries.

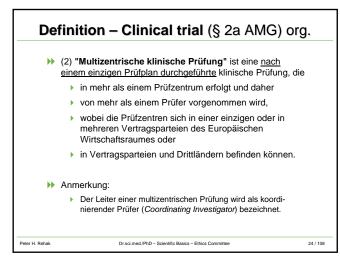
Comment:

The leader of a multi-centre clinical trial is designated as "Coordinating Investigator".

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Research on medicinal products - Phases

Phase I

First application in man (mostly in healthy volunteers), pharmakokinetics und –dynamics, safety

Phase II

therapeutic pilot studies in small numbers of patients, dose finding, dose-response-relation $% \label{eq:constraint}$

Phase III

larger collectives, broad application, benefit/risk assessment, adverse effects, therapeutic effects (comparative), Aim: marketing authorisation

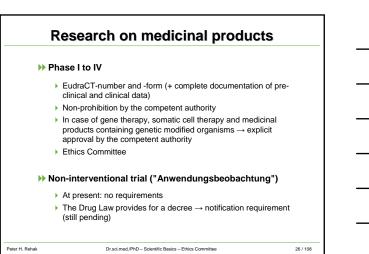
Phase IV

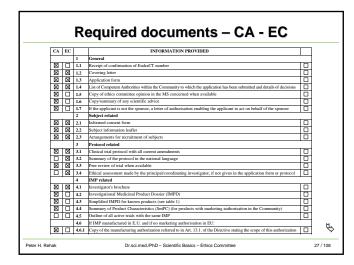
after placing on the market, surveillance, assessment of the therapeutic benefit (effectiveness) and safety

Non-interventional trial ("Anwendungsbeobachtung") observations and record keeping, no intervention, no change of the routine patient care

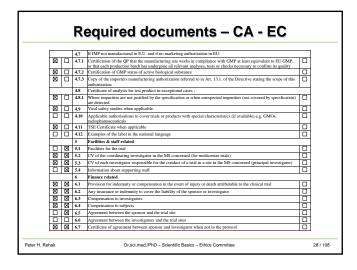
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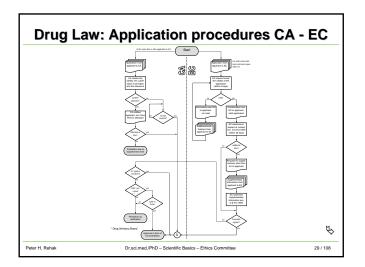


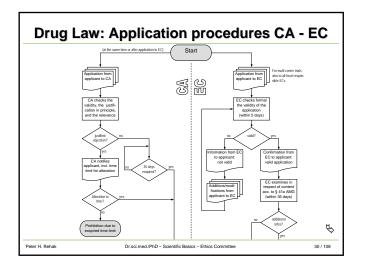




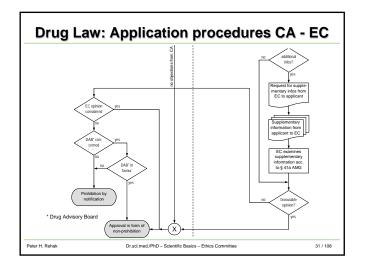




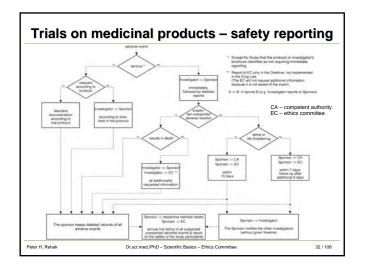




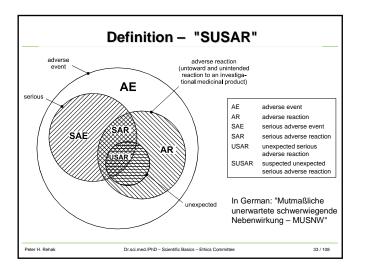














Definition – Medical device (§ 2 MPG)

(1) "Medical device" means any

- instrument, apparatus, appliance,
- software, material or other article,

whether used alone or in combination, including the software necessary for its proper application, intended by the manufacturer to be used for human beings for the purpose of:

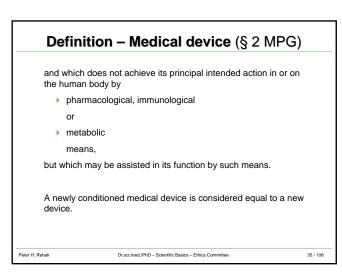
- diagnosis, prevention, monitoring, treatment or alleviation of disease,
- diagnosis, monitoring, treatment, alleviation of or compensation for an injury or handicap,
- investigation, replacement or modification of the anatomy or of a physiological process, or

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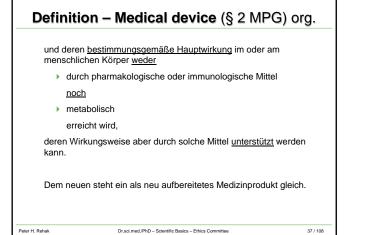
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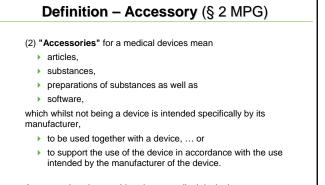
control of conception

Peter H. Rehak









Accessory is to be considered as a medical device!

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Definition - Accessory (§ 2 MPG) org. (2) "Zubehör" für ein Medizinprodukt sind Gegenstände, Stoffe, Zubereitungen aus Stoffen sowie Software die selbst keine Medizinprodukte sind, nach ihrer vom Hersteller ausdrücklich festgelegten Zweckbestimmung aber dazu bestimmt sind, zusammen mit einem Medizinprodukt verwendet zu werden, ... oder die f
ür das Medizinprodukt festgelegte Zweckbestimmung zu unterstützen. Zubehör gilt selbst als Medizinprodukt! Peter H. Rehak Dr.sci.med./PhD - Scientific Basics - Ethics Committee 39 / 108

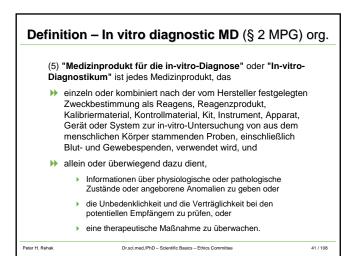
Definition – In vitro diagnostic MD (§ 2 MPG)

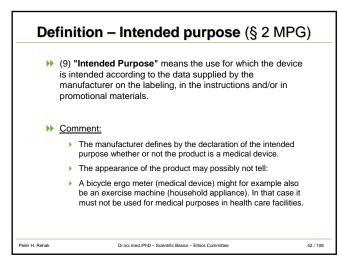
- (5) "In vitro diagnostic medical device" means any medical device which
- is a reagent, reagent product, calibrator, control material, kit, instrument, apparatus, equipment or system, whether used alone or in combination, intended by the manufacturer to be used in vitro for the examination of specimens, including blood and tissue donations, derived from the human body, solely or principally for the purpose of
 - providing information concerning a physiological or pathological state, or concerning a congenital abnormality, or
 - to determine the safety and compatibility with potential recipients, or

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to monitor therapeutic measures.





P.H.Rehak

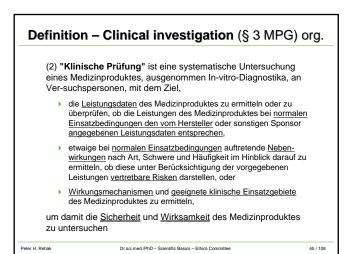
Definition – Intended purpose (§ 2 MPG) org. (9) "Zweckbestimmung" ist jene Verwendung, für die das Medizinprodukt nach den <u>Angaben des Herstellers</u> in der <u>Kennzeichnung</u>, der <u>Gebrauchsanweisung</u> oder dem <u>Werbematerial</u> bestimmt ist. <u>Anmerkungen:</u>

- Der Hersteller legt mit der Angabe der Zweckbestimmung fest, ob es sich um ein Medizinprodukt handelt.
- > Dem Produkt selbst sieht man das unter Umständen nicht an:
- Ein Fahrrad-Ergometer (Medizinprodukt) könnte z.B. auch ein Heimtrainer (Haushaltsgerät) sein. In diesem Fall dürfte es nicht in Einrichtungen des Gesundheitswesens für medizinische Zwecke verwendet werden.

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Definition - Clinical investigation (§ 3 MPG) (2) "Clinical investigation" means a systematic investigation of a medical device - with the exception of in vitro diagnostic devices - in a trial subject, which is carried out with the aim to evaluate the performance of the medical device, or to verify that, under normal conditions of use, the performance of the device conform to those given by the manufacturer or any other sponsor, > to determine any undesirable side-effects, under normal conditions of use, and assess whether they constitute risks when weighed against the intended performance of the device, or to determine mechanisms of action and adequate clinical fields of application of the medical device, in order to investigate the safety and efficacy of the medical device Peter H. Rehal Dr.sci.med./PhD - Scientific Basics - Ethics Committee 44 / 108



Definition – Performance evaluation (§ 3 MPG)

(2a) "Performance evaluation" means a systematic investigation of an in vitro diagnostic medical device in laboratories for medical analyses or in other appropriate environments on samples of trial subjects, including blood and tissue donations, with the aim

- to evaluate the performance of the in vitro diagnostic medical device, or to verify that, under normal conditions of use, the performance of the device conform to those given by the manufacturer or any other sponsor,
- to determine any undesirable side-effects, under normal conditions of use, and assess whether they constitute risks when weighed against the intended performance of the device, or
- to determine detection possibilities and adequate clinical fields of application of the in vitro diagnostic medical device.

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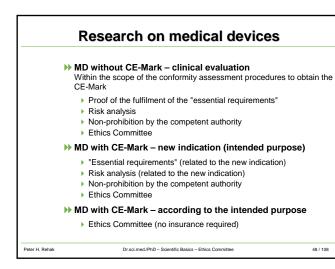
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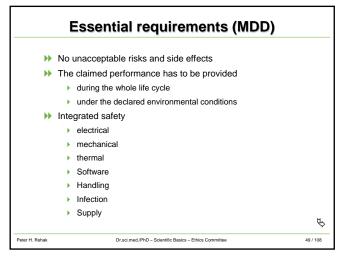
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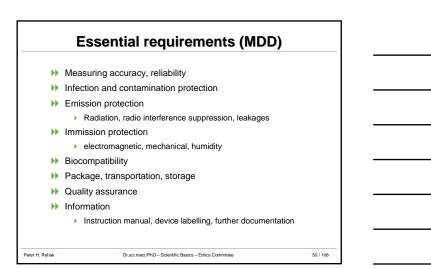
 Definition – Performance evaluation (§ 3 MPG) org.
 (2a) "Leistungsbewertungsprüfung" ist eine systematische Untersuchung eines In-vitro-Diagnostikums in medizinischen Laboratorien oder sonstigen geeigneten Einrichtungen an Proben von Versuchspersonen, einschließlich Blut- und Gewebespenden, mit dem Ziel,
 die Leistungsdaten des In-vitro-Diagnostikums zu ermitteln oder zu überprüfen, ob die Leistungen des In-vitro-Diagnostikums bei normalen Einsatzbedingungen den vom Hersteller oder sonstigen Sponsor angegebenen Leistungsdaten entsprechen,
 etwaige bei normalen Einsatzbedingungen auftretende Risken nach Art, Schwere und Häufigkeit im Hinblick darauf zu ermitteln, ob diese unter Berücksichtigung der vorgegebenen Leistungen vertretbare Risken darstellen, oder

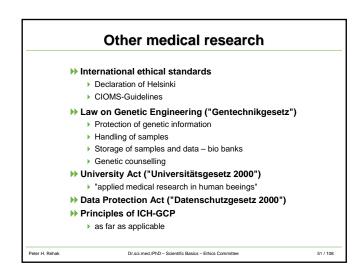
 Nachweismöglichkeiten und geeignete medizinische Einsatzgebiete des In-vitro-Diagnostikums zu ermitteln.

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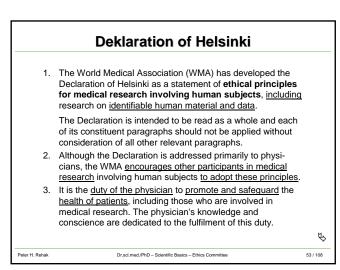


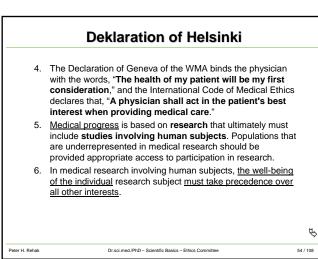


Ethical standards – Deklaration of Helsinki

WORLD MEDICAL ASSOCIATION DECLARATION OF HELSINKI Ethical Principles for Medical Research Involving Human Subjects

Adopted by the 18th WMA General Assembly, Helsinki, Finland, June 1964, and amended by the: 29th WMA General Assembly, Tokyo, Japan, October 1975 35th WMA General Assembly, Venice, Italy, October 1983 41st WMA General Assembly, Hong Kong, September 1989 48th WMA General Assembly, Somerset West, Republic of South Africa, October 1996 52nd WMA General Assembly, Edinburgh, Scotland, October 2000 53th WMA General Assembly, Washington 2002 (Note of Clarification on paragraph 29 added) 55th WMA General Assembly, Tokyo 2004 (Note of Clarification on Paragraph 30 added) 59th WMA General Assembly, Socul, October 2008





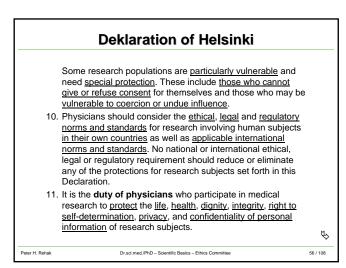
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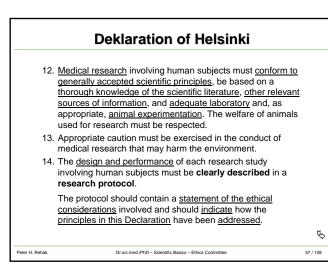
The <u>primary purpose</u> of medical research involving human subjects is to <u>understand the causes</u>, <u>development</u> and <u>effects of diseases and improve preventive, diagnostic and therapeutic interventions</u> (methods, procedures and treatments).
 Even the best current interventions must be <u>evaluated</u> <u>continually through research</u> for their <u>safety</u>, <u>effectiveness</u>, <u>efficiency</u>, <u>accessibility</u> and <u>guality</u>.
 In medical <u>practice</u> and in medical <u>research</u>, <u>most</u> <u>interventions</u> involve risks and burdens.
 Medical research is subject to <u>ethical standards</u> that promote <u>respect for all human subjects</u> and <u>protect their health and rights</u>.

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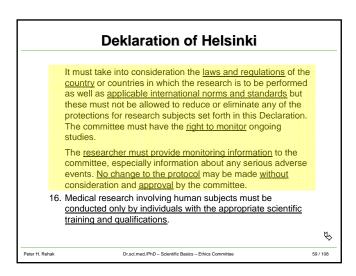
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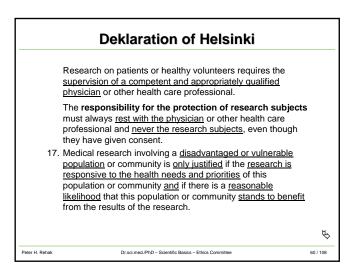
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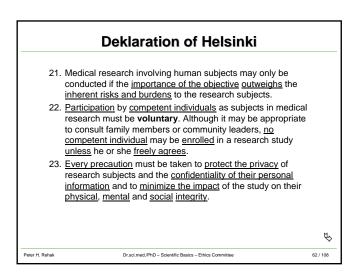
	Deklaration of Helsinki	
	The protocol should include <u>information</u> regarding <u>funding</u> , <u>sponsors</u> , <u>institutional affiliations</u> , other <u>potential conflicts of</u> <u>interest</u> , <u>incentives for subjects</u> and <u>provisions for treating</u> <u>and/or compensating subjects</u> who are <u>harmed</u> as a consequence of participation in the research study. The protocol should describe arrangements for <u>post-study</u> <u>access</u> by study subjects to interventions identified as beneficial in the study <u>or access to other appropriate care</u> or benefits	
15.	The research <u>protocol</u> must be submitted for <u>consideration</u> , <u>comment</u> , <u>guidance</u> and <u>approval</u> to a <u>research ethics</u> <u>committee</u> <u>before the study begins</u> . This <u>committee</u> must be <u>independent of the researcher</u> , <u>the</u> <u>sponsor</u> and <u>any other undue influence</u> .	Ŕ
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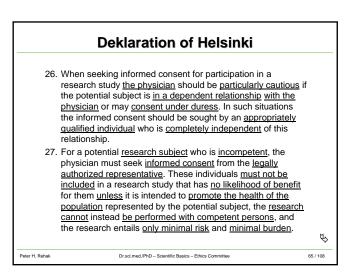
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t r a 0 19. E	Every medical research study involving human subjects must be preceded by careful assessment of predictable risks and <u>ourdens</u> to the individuals and communities involved in the research in comparison with foreseeable benefits to them and to other individuals or communities affected by the condition under investigation. Every clinical trial must be registered in a publicly accessible	
20. <u>F</u> i <u>i</u> F f	<u>Jatabase before recruitment</u> of the first subject. Physicians may not participate in a research study involving numan subjects <u>unless they are confident</u> that the <u>risks</u> nvolved have been adequately assessed and <u>can be</u> satisfactorily managed. Physicians must <u>immediately stop</u> a study when <u>the risks are</u> ound to outweigh the potential benefits or when there is conclusive proof of positive and beneficial results.	Б.
eter H. Rehak	Dr.sci.med/PhD – Scientific Basics – Ethics Committee	61 / 108

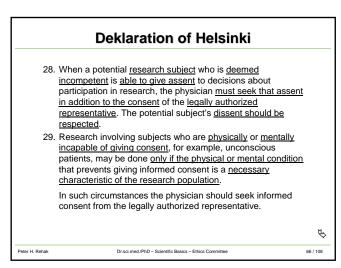


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24	In medical research involving <u>competent human subjects</u> , each potential subject must be <u>adequately informed</u> of the <u>aims</u> , <u>methods</u> , <u>sources of funding</u> , any <u>possible conflicts of</u> <u>interest</u> , <u>institutional affiliations</u> of the researcher, the <u>anticipated benefits</u> and <u>potential risks</u> of the study and the <u>discomfort</u> it may entail, and any <u>other relevant aspects</u> of the study.	9
	The potential subject must be informed of the <u>right to refuse</u> to participate in the study or to <u>withdraw consent</u> to participate <u>at any time without reprisal</u> .	
	Special attention should be given to the <u>specific information</u> <u>needs of individual potential subjects</u> as well as to the methods used to deliver the information.	
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	After ensuring that the potential subject has understood the information, the <u>physician</u> or <u>another appropriately qualified</u> <u>individual</u> must then <u>seek</u> the potential subject's <u>freely-given</u> <u>informed consent</u> , <u>preferably in writing</u> .	
25	If the consent cannot be expressed in writing, the <u>non-written</u> <u>consent</u> must be <u>formally documented and witnessed</u> . For medical research using <u>identifiable human material or</u> <u>data</u> , physicians must <u>normally seek consent</u> for the <u>collection</u> , <u>analysis</u> , <u>storage</u> and/or <u>reuse</u> .	<u>l</u>
	There may be situations where <u>consent</u> would be <u>impossible</u> or <u>impractical</u> to obtain for such research or would <u>pose a</u> <u>threat to the validity</u> of the research. In such situations the research may be done only after <u>consideration</u> and <u>approval</u> of a <u>research ethics committee</u> .	
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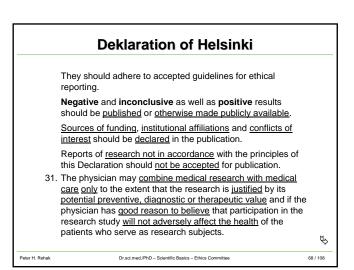
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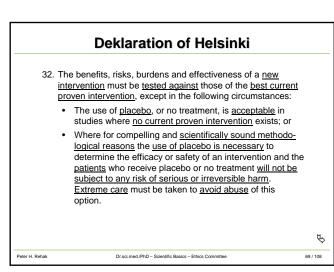
If <u>no</u> such <u>representative is available</u> and if the research cannot be delayed, the <u>study may proceed without informed</u> <u>consent</u> provided that the <u>specific reasons</u> for involving subjects with a condition that renders them unable to give informed consent have been <u>stated in the research protocol</u> and the study has been approved by a research ethics committee. <u>Consent to remain</u> in the research should be <u>obtained as soon as possible</u> from the <u>subject</u> or a <u>legally</u> <u>authorized representative</u>.

30. <u>Authors, editors</u> and <u>publishers</u> all have **ethical obligations** with regard to the publication of the results of research. Authors have a <u>duty to make publicly</u> available the <u>results of</u> <u>their research on human subjects</u> and are <u>accountable</u> for the <u>completeness</u> and <u>accuracy</u> of their reports.

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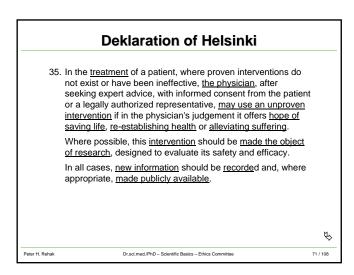
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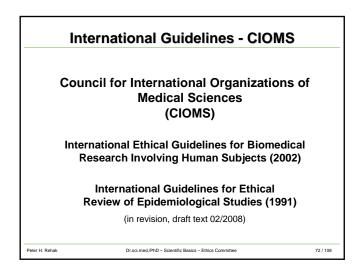






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33. <u>At the conclusion</u> of the study, <u>patients</u> entered into the study are entitled to be informed about the outcome of the study and <u>to share any benefits</u> that result from it, for example, <u>access to interventions identified as beneficial</u> in the study <u>to other appropriate care</u> or benefits.	
 The physician must <u>fully inform</u> the patient <u>which aspects</u> of the care <u>are related to the research</u>. 	
The <u>refusal</u> of a patient to participate in a study or the patient's <u>decision to withdraw</u> from the study <u>must never</u> <u>interfere</u> with the <u>patient-physician relationship</u> .	
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CIOMS – Ethical Guidelines

Research involving human subjects includes:

- studies of a physiological, biochemical or pathological process, or of the response to a specific intervention – whether physical, chemical or psychological – in healthy subjects or patients;
- controlled trials of diagnostic, preventive or therapeutic measures in larger groups of persons, designed to demonstrate a specific generalizable response to these measures against a background of individual biological variation;
 studies designed to determine the consequences for individuals
- and communities of specific preventive or therapeutic measures; and
- studies concerning human health-related behaviour in a variety of circumstances and environments.

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CIOMS – Ethical Guidelines

Guideline 2: Ethical review committees

All proposals to conduct research involving human subjects <u>must</u> be submitted for review of their <u>scientific merit</u> and <u>ethical</u> acceptability to one or more <u>scientific review</u> and <u>ethical review</u> committees.

The review committees must be independent of the research team, and any direct financial or other material benefit they may derive from the research should not be contingent on the outcome of their review.

The investigator must obtain their approval or clearance before undertaking the research.

The ethical review committee should conduct further reviews as necessary in the course of the research, including monitoring of the progress of the study.

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WHO – Guidelines for Ethics Committees

Operational Guidelines for Ethics Committees that Review Biomedical Research, WHO, Geneva, 2000

Recommendation of the World Health Organisation (WHO), comprehensive regulations for the composition and the modes of operation of Ethics Committees

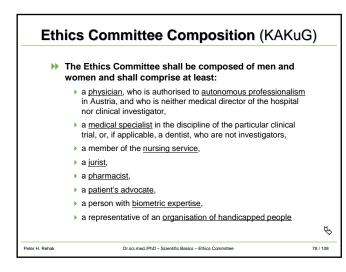
Surveying and Evaluating Ethical Review Practices, WHO, Geneva, 2002

Recommendation of the WHO on Inspections of Ethics Committees

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Biomedicine Convention – Council of Europe >> Convention for the protection of human rights and dignity of the human being with regard to the application of biology and medicine: convention on human rights and biomedicine -"Biomedicine Convention" SEV-No.: 164 Oviedo, April 4, 1997 In force since December 1, 1999 Not signed yet by Austria and Germany >> Additional protocol to the convention on human rights and biomedicine, concerning biomedical research SEV-No.: 195 Strasbourg, January 25, 2005 In force since September 1, 2007 Not signed yet by Austria and Germany Peter H. Rehak Dr.sci.med./PhD - Scientific Basics - Ethics Committee 77 / 108



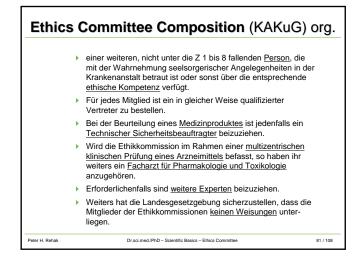
Ethics Committee Composition (KAKuG)

- another <u>person</u>, who deals with <u>pastoral affairs</u> in the hospital, or who otherwise holds equivalent <u>ethical competence</u>.
- Deputies with equal qualifications shall be appointed for each member.
- In case of the evaluation of a <u>medical device</u> a <u>technical</u> <u>security officer</u> has to be consulted at all means.
- If the Ethics Committee is concerned with a <u>multi centre trial</u> on a <u>medicinal product</u>, a medical specialist in <u>pharmacology and</u> <u>toxicology</u> shall be a member of the committee.
- If necessary, <u>additional experts</u> shall be consulted.
- Moreover, the legislation of the Federal States shall assure that the members of the Ethics Committee are not subject to any orders.

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Duties of Ethics Committees (§ 41a AMG)

The Ethics Committees which are established in execution of § 8c of the Federal Law on Hospitals according to the regulations of the law of the Federal States, according to the regulations of the University Act, and according to § 41 shall observe the rules on the procedures laid down in section 2 to 7, and in preparing its opinion, the Ethics Committee shall consider, in particular:

- 1. the relevance of the clinical trial and the trial design,
- the appropriateness of the in § 29 stipulated evaluation of the anticipated benefit and the anticipated risks,

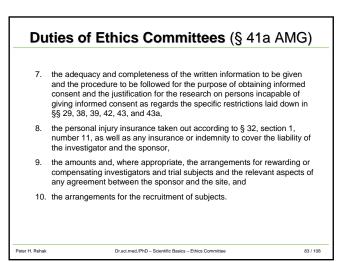
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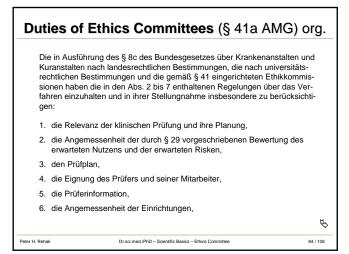
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3. the study protocol,

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- 4. the suitability of the investigator and supporting staff,
- 5. the investigator's brochure,
- 6. the appropriateness of the facilities,





Duties of Ethics Committees (§ 41a AMG) org.

- 7. die Angemessenheit und Vollständigkeit der zu erteilenden schriftlichen Auskünfte sowie das Verfahren im Hinblick auf die Einwilligung nach Aufklärung und die Rechtfertigung für die Forschung an Personen, die zur Einwilligung nach Aufklärung nicht in der Lage sind, was die spezifischen Einschränkungen gemäß den §§ 29, 38, 39, 42, 43 und 43a anbelangt,
- die gemäß § 32 Abs. 1 Z 11 abgeschlossene Personenschadenversicherung, sowie jede Art von Versicherung oder Schadenersatz zur Deckung der Haftung des Prüfers und des Sponsors,
- die Beträge und die Modalitäten f
 ür die etwaige Verg
 ütung oder Entsch
 ädigung f
 ür Pr
 üfer und Pr
 üfungsteilnehmer und die einschl
 ägigen Elemente jedes zwischen dem Sponsor und dem Pr
 üfzentrum vorgesehenen Vertrages, und

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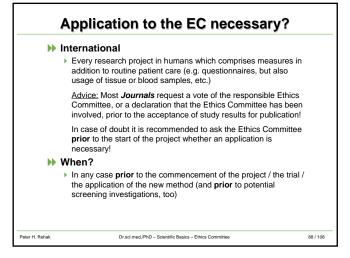
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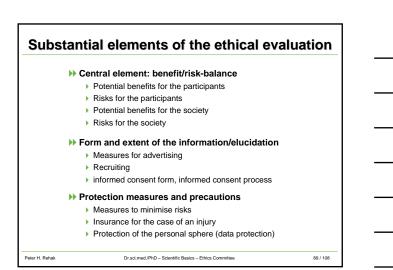
10. die Modalitäten für die Auswahl der Prüfungsteilnehmer.

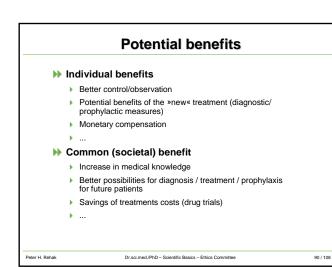
Tasks of the Ethics Committee The main business is the evaluation of clinical research projects (clinical trials, clinical investigations) in patients or in healthy volunteers. Such projects may concern: >> Medicinal products Medical devices >> New medical methods (e.g. surgical techniques) >> Applied medical research in human beings The evaluation is done considering ▶ ethical, >> legal, and >> methodical-scientific aspects. Peter H. Rehal Dr.sci.med./PhD - Scientific Basics - Ethics Committee 86 / 108

	Application to the EC necessary?	
••	In Austria legally binding	
	 All clinical trials on medicinal products (AMG) except non- interventional trials* and <u>all investigations on medical devices</u> (MPG). Applicant: the investigator (leader of the trial), or the sponsor, or an authorised representative of the sponsor. 	
	* " <u>Anwendungsbeobachtung":</u> only routine medical care, no comparisons, no measures beyond the routine treatment	
	The application of a <u>new medical method</u> (= a method which is not applied in Austria yet (KAKuG). Applicant: the head of the respective organisation unit	
	 In the university setting, and in Vorarlberg additional (§ 30 UG 2002, Hospital Act Vorarlberg): Applied clinical research in human beings. 	Ŕ
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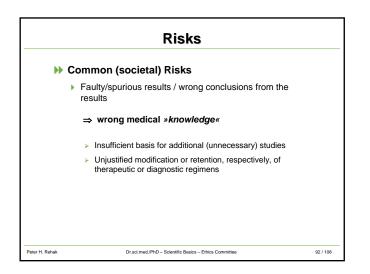


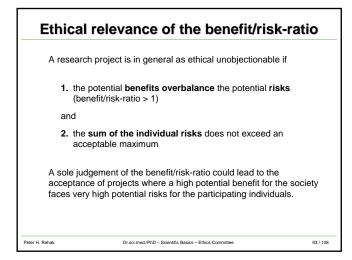






Risks	
Individual risks	
Undesired / unexpected effects	
 Inferiority of the »new« treatment (diagnostic/ prophylactic measures) 	
 Withholding of effective therapies 	
 Additional burdens 	
Blood drawing	
Radiation	
 Other study specific measures 	
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Scientific quality The scientific quality is addressed in the ICH-GCP-Guideline under »Principles of ICH GCP«: Clinical trials have to be »scientifically sound«! • Inadequate planning, insufficient realisation, improper analysis, and/or poor presentation of the results derogate or even nullify the potential benefit of the study. Under such circumstances even a small risk or a small burden for the participants, respectively appear to be unacceptable Studies of poor scientific quality are ipso facto unethical!

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ICH-GCP – Informed Consent (1)

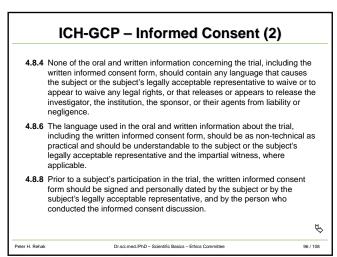
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- 4.8.1 In obtaining and documenting informed consent, the investigator should comply with the applicable regulatory requirement(s), and should adhere to GCP and to the ethical principles that have their origin in the Declaration of Helsinki. Prior to the beginning of the trial, the investigator should have the IRB/IEC's written approval/favourable opinion of the written informed consent form and any other written information to be provided to subjects.
- 4.8.2 The written informed consent form and any other written information to be provided to subjects should be revised whenever important new information becomes available that may be relevant to the subject's consent. Any revised written informed consent form, and written information should receive the IRB/IEC's approval/favourable opinion in advance of use. The subject or the subject's legally acceptable representative should be informed in a timely manner if new information becomes available that may be relevant to the subject's willingness to continue participation in the trial. The communication of this information should be documented.

4.8.3 Neither the investigator, nor the trial staff, should coerce or unduly influence a subject to participate or to continue to participate in a trial. Peter H. Reha 95 / 108



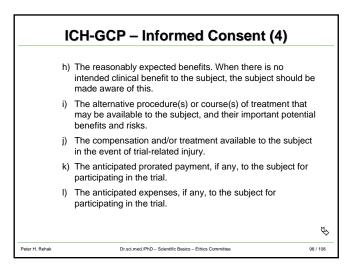


ICH-GCP – Informed Consent (3)

4.8.10 Both the informed consent discussion and the written informed consent form and any other written information to be provided to subjects should include explanations of the following:

- a) That the trial involves research.
- b) The purpose of the trial.
- c) The trial treatment(s) and the probability for random assignment to each treatment.
- d) The trial procedures to be followed, including all invasive procedures.
- e) The subject's responsibilities.
- f) Those aspects of the trial that are experimental.
- g) The reasonably foreseeable risks or inconveniences to the subject and, when applicable, to an embryo, foetus, or nursing infant. 97 / 108

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I	CH-GCP – Informed Consent (5)	
m)) That the subject's participation in the trial is voluntary and that the subject may refuse to participate or withdraw from the trial, at any time, without penalty or loss of benefits to which the subject is otherwise entitled.	
n)	That the monitor(s), the auditor(s), the IRB/IEC, and the regulatory authority(ies) will be granted direct access to the subject's original medical records for verification of clinical trial procedures and/or data, without violating the confidentiality of the subject, to the extent permitted by the applicable laws and regulations and that, by signing a writt informed consent form, the subject or the subject's legally acceptable representative is authorising such access.	
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ICH-GCP – Informed Consent (6)

- o) That records identifying the subject will be kept confidential and, to the extent permitted by the applicable laws and/or regulations, will not be made publicly available. If the results of the trial are published, the subject's identity will remain confidential.
- p) That the subject or the subject's legally acceptable representative will be informed in a timely manner if information becomes available that may be relevant to the subject's willingness to continue participation in the trial.
- q) The person(s) to contact for further information regarding the trial and the rights of trial subjects, and whom to contact in the event of trial-related injury.
- r) The foreseeable circumstances and/or reasons under which the subject's participation in the trial may be terminated.

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ICH-GCP – Informed Consent (7) s) The expected duration of the subject's participation in the trial t) The approximate number of subjects involved in the trial. 4.8.11 Prior to participation in the trial, the subject or the subject's legally acceptable representative should receive a copy of the signed and dated written informed consent form and any other written information provided to the subjects. During a subject's participation in the trial, the subject or the subject's legally acceptable representative should receive a copy of the signed and dated consent form updates and a copy of any amendments to the written information provided to subjects.. B Peter H. Rehal Dr.sci.med./PhD - Scientific Basics - Ethics Committee 101 / 108

	Ade	ditional requirements (1)	
>> A	- Forma	ı	
		cientific terms – if unavoidable, e.g. if they are part of - shall be explained.	
E	xamples:		
ra	ndomised	" which of these therapies you will receive will be decided by chance"	
da	ouble-blind	" neither you nor your doctors know, which of the medication you will receive"	
PI	lacebo	"dummy drug without any active component"	
m	ulti centre	" carried out in more than one hospital"	
		the informed consent form shell be clearly indicated by sion number in the head or foot line of the document.	а
	urthermore, a .g. "page 2 c	a paging including the total number of pages is required of 5").	
			\clubsuit
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Additional requirements (2)

- B Content
 1. Title of the study according to the protocol, translated into German if applicable
 - Salutary address and explanation about the disease
 - "Dear patient, you suffer from ... / we diagnosed you with ... " / etc. 3. Ask for participation in the study

4. Information about the study subject

- Statement whether and where the subject has a marketing authorisation (in Austria, in the EC, in other countries)
- Information about the number of patients, in which previous experience with the study subject exist
- Total number of planned participants, number of centres, total duration of the study

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Additional requirements (3)

5. Risks and burdens

- Information about potentially occurring non-foreseeable undesired effects/risks
- Information about the necessary pregnancy test (in drug trials)
- 6. Insurance
 - Notice of the insurance institution and police number
 - Warranty of the liability regardless of negligence or fault
 - Information that the patient may enforce her/his claims directly to the insurance institution
 - Information about obligations, if any, which if violated may compromise the insurance coverage (e.g. other medical treatments, intake of medications, etc.)

7. Withdrawal of the consent

- Information about the potential risks which might be associated with
- a premature termination of the study participation

8. Integrated declaration of consent with paging throughout



Links – EC					
••	General: Document search (Official Journal, Directives, etc.) http://europa.eu.int/eur-lex/de/search/index.html				
**	Everything about medicinal products http://ec.europa.eu/enterprise/pharmaceuticals/index_en.htm				
**	EMEA: Guidelines – Medicinal products http://www.emea.europa.eu/htms/human/humanguidelines/backgrou	ind.htm			
**	EudraCT Database http://eudract.emea.europa.eu				
**	Everything about medical devices http://ec.europa.eu/enterprise/medical_devices/index_en.htm				
**	Guidelines – Medical devices http://ec.europa.eu/enterprise/medical_devices/meddev/index.htm				
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