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Disorders Research Center TEHRAN-FDO CTC MEETING-1394

History and origin of current guidelines for clinical trials

• (USA)FOOD&DRUG COSMETIC ACT: SAFETY 1938 • Nuremberg Code: emphasized on the voluntary consent 1947 (USA)FOOD&DRUG COSMETIC ACT: EFFICACY 1962 1950/609 Declaration of Helsinki(18th World Medical Assembly): ethical principles of medical reseach (6 revisions to 2008) 1964 Not legally binding ongenital International Conference on Harmonisation on Good Clinical Practice (ICH GCP): to develop

standards to facilitate the mutual acceptance of clinical data by regulatory authorities in

Gold standard of clinical research for safety of subjects and credibility of data

USA, EU, Japan

Roles and responsibilities of involved parties in Clinical Trials

• ETHICs:

Independent Ethics Committee (IEC) or Institutional Review Board(IRB): to ensure an independent, objective review of a CT on protection of the right, health and safety of participants

INVESTIGATOR:

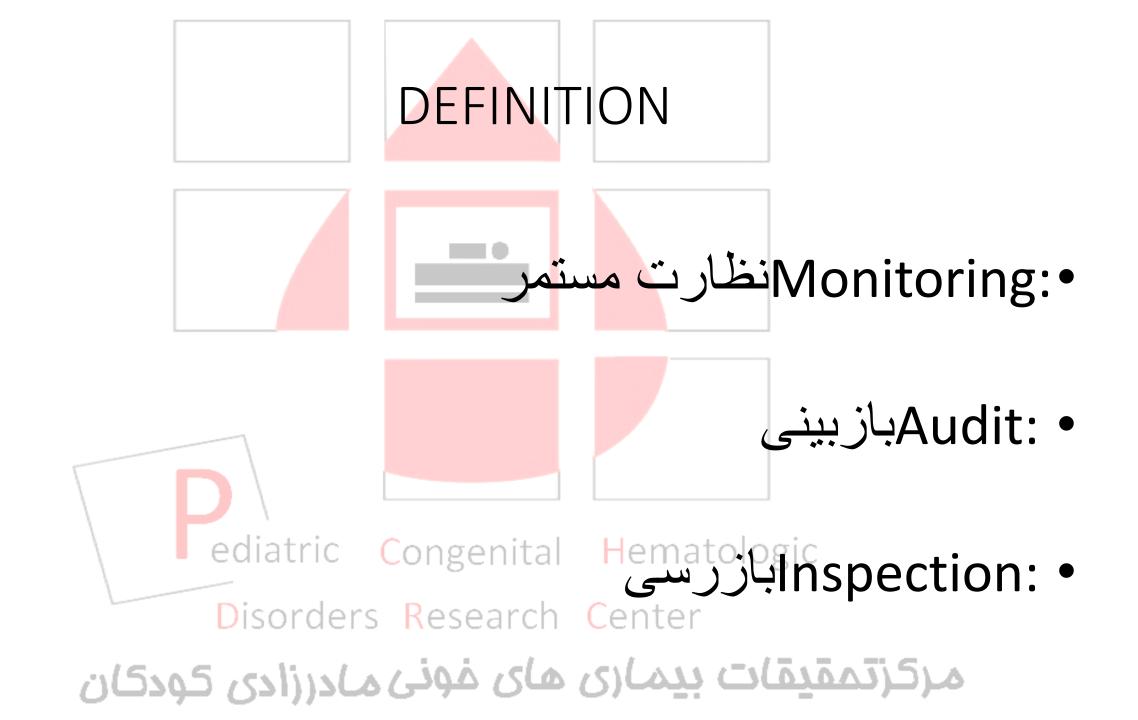
- Qualified and well trained and educated team
- With Ethical, Scientific and Administrative responsibility
- Should be aware and comply with GCP

• SPONSOR:

- An individual, company, institution, or organization which takes responsibility for initiation investigator selection, study design, submission of protocols and Documents to EC, management, compensations, and /or financing of CT (ICH-GCP 1.53)
- Sponsor can transfer some or all of responsibilities to a Contract Research Organization(CRO)
- Quality always remains the ultimate responsibility of sponsor

 Regulatory Authority: Research Center
 CT should be submitted to RA prior to start for review, acceptance and/or permission which is dated with clear protocol identification

TDIAL	SDONSOR	CRO	IEC/IRB	National
TRIAL	SPONSOR	CRO	IEC/IRD	National Regulatory Authority (NRA)
SIPPET	<u>Fondazione Angelo Bianchi</u> <u>Bonomi</u> , Milan - Italy	SINTESI RESEARCH	SBMUNational EC	Clinical Trial Committee (CTC) of FDO
3WINTER-IPS	<u>Fondazione Angelo Bianchi</u> <u>Bonomi</u> , Milan - Italy	SINTESI RESEARCH	PCHD-RCSBMUNational EC	Clinical Trial Committee (CTC) of FDO
SMART-7	NOVO NORDISK A/S DENMARK	-	PCHD-RCSBMUNational EC	Clinical Trial Committee (CTC) of FDO
كار ازمايي باليني اسورال	<u>IPHOS</u> / OSVEH ph.company	-	SBMUNational EC	Clinical Trial Committee (CTC) of FDO
کار از مایی بالینی سه سویه کور مقایسه ای دسفوناک و دسفرال	MCTSD / RONAK ph. company	-	PCHD-RCSBMUNational EC	Clinical Trial Committee (CTC) of FDO
کار آزمایی بالینی نوترکیب هفت فعال	<u>IPHOS</u> / ARYOGEN ph. company	-	PCHD-RCSBMUNational EC	Clinical Trial Committee (CTC) of FDO
کار ازمایی بالینی نوترکیب هشت	SAMEN DAROU ph.company	-	PCHD-RCSBMU	Clinical Trial Committee (CTC) of FDO



Benfits and outcome:

- Safety of trial subjects
- Credibility of data
- Assess resourcing(manpower,equipment,time,etc)
- Improve systems: study procedures/records design/methodology
- Notification of serious and persistent Non-compliance to terminate the investigator's participation and notification of regulatory authorities

Audit vs. Monitoring: (ICH-GCP 5.18;5.19)

AUDIT

- Retrospective(like a photograph) during or after the trial
- Expert and qualified individuals, who are independent of the clinical trials/systems
- Quality Assurance (QA): To be performed and data generated and reported according to GCP
- Written procedure should define what to ,how to, and when to audit
- Site visits may be just one BIG visit
- Appointment is rule (it is not unexpected visit!)
- To be provided when required by local law

MONITORING

- Prospective controls of trial by representative of sponsor during trial (like a camera recording)
- Not independent procedure
- Multiple visit
- Quality Control(QC): techniques to verify that the requirements for quality have been performed or not

Audit: common areas of audit findings

- Protocol adherence:
 - Enrolment : inclusion/exclusion criteria
 - Deviation of trial procedures and methods: dosage; visit times, etc.
 - Delegation of tasks
 - Dates: approval-ICF-blood sampling-treatment with trial productdata collections
 - Amendments vs administrative changes
 - Monitoring frequency

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Audit: common areas of audit findings

- Informed consent forms:
 - The most important Doc. Of trial!!
 - Cultural respect; illiterate subjects; site personel on behalf of subject
 - Corrections, whiteouts; date overwritten; different pen by one person; etc...
 - Investigator`s unfamiliarity of the concept of signed ICF prior to participation in trial: Date of signature must be before any trial activity
- Ethic committee constitution & approval:
 - Validity of membership : investigator should not be /sign as an EC member/chairman
 - Clear instructions on submission requirement: version of protocol, brochures,
 CRFs and reporting AEs
 - Contract, financial and payment agreements before trial initiation



Audit: common areas of audit findings

- Laboratory /equipment/trial supplies &DOC. :
 - Accreditation of lab
 - Normal ranges for lab values
 - Your equipment should:
 - Be certificated
 - Have SOP documents
 - Freezer for samples(-40), refrigerators for drugs (+4), etc.: thermometer alarm certificate
 - Temperature log
 - Drug accountability and Security of storage area: used/unused drugs; locked rooms; Separation of trial drugs; Appropriate destruction of returned stock;Stock sheet مرکزتمقیقات بیماری های غونی مادرزادی کودکان

Audit: common areas of audit findings

- Quality of source documents:
 - Trial Doc.(CRFs) and patient files and original patients` Doc. (CBC,biochemistry,CT,etc.) should be adjusted
 - Inadequate documentation: reason for screen failure and withdrawals; dates of activities; AEs; concomitant illnesses and medications
 - Corrections should be explained , signed and dated by investigator accordingly: NO White-outs; NO non-signed raw data in DOCs

Audit: common areas of audit findings

- SAE reporting: unclear about
 - definition of AE and SAE vs ADR
 - Forms to be completed
 - Timelines for reporting: delay should result a warning letter to sponsor /company by FDO
 - Local regulations and laws
- Monitoring files
- Indemnity and payment issues: Congenital Hematologic
 - Investigator fee
 - Patient fee: Only for travel costs(home to hospital), Meals(long visits, etc.)

مرگزتمقیقات بیماری های غونی مادرزادی کودکان

ANY PAYMENT FOR ENTERING STUDY IS PROHIBITED



- By regulatory Health Authority (FDO in Iran)
- In Iran it is defined as FDO audit
- The act of official review of documents, facilities, records, and any other resources related to CT that may be located:
 - At the investigator site
 - Sponsor`s and/or CRO`s facilities
 - Any other establishments deemed by FDO
- Can be routine OR for cause genital Hematologic

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Inspection (ICH GCP1.29)

- Inspection type:
 - Surveillance /routine: periodically; usually due to pending application for market approval
 - FOR-CAUSE: any suspicion on
 - High volume of bioresearch at site
 - Research out of field of site
 - Toxicity results abnormally low
 - Efficacy results too good
 - Very rapid enrollment
 - Too similar results to other sites enital Hematologic
 - Sponsor complaint
 - Public importanceders Research Center

Inspection (ICH GCP1.29)

- Inspection by international regular authorities (FDA/EMA/etc) on multicentric and international studies:
 - Protocol adherence :
 - inclusion /exclusion criteria; randomization; efficacy tests; unauthorized changes by sponsor; deviation
 - Maintain adequate records:
 - Destroyed or missing; non-signed or dated; on behalf signed without explanation; etc.
 - AE /SAE and key data reporting failure
 - Obtain proper ICF: verbal; short; after admission
 - Drug accountability/concomitant medication
 - Fraud (fabrication/alteration and omission of data)OR
 Carelessness(wrong observation, assumption or analysis)

Challenges in implementing GCP in IRAN

- 1. Non-familiarity of investigators with GCP:
 - Conduct of CT
 - Inadequate or inaccurate records
 - Failure to adhere to protocol
 - Drug accountability
 - ICF
 - Reporting AEs
- 2. Resistance to regulations by companies/ sponsors and investigators
- 3. No OR ineffective and formal Audits and Inspections

و بیماری های غونی مادرزادی کودکان

- No active, expert and credited CRO (GCP trained) in IRAN
- Non-adherence to regulations by government:
 - Shortages of medicines; sanctions; socioeconomic and political issues
 - Cultural and issues (TEB-E-SONNATI)

