

Competencies of the Joint Task Force for Harmonized Core Competencies

JTF Competencies							
I. Scientific Concepts and Research Design							
1. Demonstrate knowledge of pathophysiology, pharmacology and toxicology as they relate to medicines discovery and development							
2. Identify clinically important questions that are potential testable clinical research hypothesis, through review of the professional literature							
3. Explain the elements (statistical, epidemiological and operational) of clinical and translational study design							
4. Design a clinical trial							
5. Critically analyze study results with an understanding of therapeutic and clinical effectiveness							
II. Ethical and Participant Safety Considerations							
1. Compare and contrast clinical care and management of research participants							
2. Define the concepts of “clinical equipoise” and “therapeutic misconception” as they relate to the conduct of a clinical trial							
3. Compare the requirements for human subject protection and privacy under different national and international regulations and ensures their implementation throughout the phases of a clinical study							
4. Explain the evolution of informed consent from research participants and principles and content of key documents which ensure the protection of human participants in clinical research							
5. Describe the ethical issues involved when dealing with vulnerable populations and the need for additional safeguards							
6. Evaluate and apply and understanding of the past and current ethical issues, cultural variations and commercial aspects on the medicines development process							
7. Explain how inclusion and exclusion criteria are included in a clinical protocol to assure human subject protection							
8. Summarize the principles and methods of distributing and balancing risk and benefit through selection and management of clinical trial subjects							

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III. Medicines Development and Regulation							
1. Discuss the historical events which precipitated the development of governmental regulatory processes for drugs, devices and biologics							
2. Describe the roles and responsibilities of the various institutions participating in the medicines development process							
3. Explain the medicines development process and the activities which integrate commercial realities into the life-cycle management of medical products							
4. Summarize the legislative and regulatory framework which supports the development and registration of medicines, devices and biological and ensures their safety, efficacy and quality							
5. Describe the specific processes and phases which must be followed in order for the regulatory authority to approve the marketing authorization for a medical product							
6. Describe the safety reporting requirements of regulatory agencies both pre- and post- approval							
7. Appraise the issues generated and the effects of global expansion on the approval and regulation of medicinal products							
IV. Clinical Study Operations (GCPs)							
1. Evaluate the conduct and management of clinical trials within the context of a clinical development plan							
2. Describe the roles and responsibilities of the clinical investigative team as defined by GCP guidelines							
3. Evaluate the design, conduct and documentation of clinical trials as required for compliance with GCPs							
4. Compare and contrast the regulations and guidelines of regulatory bodies related to the conduct of clinical trials							
5. Describe appropriate control, storage and dispensing of investigational product							
6. Differentiate the types of adverse events which occur during clinical trials, understanding the identification process for AEs and describe the reporting requirements to IRBs/IECs, sponsors and regulatory authorities							
7. Describe how global regulations and guidelines assure human subject protection and subject protection and privacy during the conduct of clinical trials							

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8. Describe the reporting requirements of global regulatory bodies relating to clinical trial conduct							
9. Describe the role and process for monitoring of the study							
10. Describe the roles and purpose of clinical trial audits							
11. Describe the safety reporting requirements of regulatory agencies both pre-and post-approval							
12. Describe the various methods by which safety issues are identified and managed during the development and post-marketing phases of clinical research							
V. Study and Site Management							
1. Describe the methods utilized to determine whether or not to sponsor, supervise or participate in a clinical trial							
2. Develop and manage the financial, timeline, and cross-disciplinary personnel resources necessary to conduct a clinical or translational research study							
3. Apply management concepts and effective training methods to manage risk and improve quality in the conduct of a clinical research study							
4. Utilize elements of project management related to organization of the study site to manage patient recruitment, complete procedures and track progress							
5. Identify the legal responsibilities, issues, liabilities and accountability that is involved in the conduct of a clinical trial							
6. Identify and explain the specific procedural, documentation and oversight requirements of principal investigators, sponsors, CROs and regulatory authorities which relate to the conduct of a clinical trial							
VI. Data Management and Informatics							
1. Describe the role that biostatistics and informatics serve in biomedical and public health research							
2. Describe the typical flow of data throughout a clinical trial							
3. Summarize the process of electronic data capture (EDC) and the importance of information technology in data collection, capture and management.							

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4. Describe the ICH GCP requirements for data correction and queries							
5. Describe the significance of data quality assurance systems and how SOPs are used to guide these processes							
VII. Leadership and Professionalism							
1. Describe the principles and practices of leadership, management and mentorship and apply them within the working environment							
2. Identify and implement procedures for the prevention or management of the ethical and professional conflicts that are associated with the conduct of clinical research							
3. Identify and apply the professional guidelines and codes of ethics which apply to the conduct of clinical research							
4. Describe the impact of cultural diversity and the need for cultural competency in the design and conduct of clinical research							
VIII. Communication and Teamwork							
1. Discuss the relationship and appropriate communication between Sponsor, CRO and clinical research site							
2. Describe the component parts of a traditional scientific publication							
3. Effectively communicate the content and relevance of clinical research findings to colleague, advocacy groups and the non-scientist community							
4. Describe methods necessary to work effectively with multidisciplinary and interprofessional research teams							