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Clinical Trials Overview: An Introduction to Clinical Research

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Clinical trials are a cornerstone of evidence-based medicine, providing the scientific foundation for the development, evaluation, and approval of new medical interventions. This presentation offers a comprehensive overview of clinical trials, serving as an introduction to the fundamental principles of clinical research. It outlines the key phases of clinical trials, from early-phase safety assessments to large-scale efficacy studies and highlights their distinct objectives and methodological characteristics.

The presentation also addresses essential aspects of clinical trial design, including randomization, control groups, blinding, and outcome measures, emphasizing their role in ensuring scientific validity and reliability. Ethical and regulatory considerations, such as informed consent, patient safety, and compliance with international guidelines, are discussed to underscore the responsibilities of researchers in protecting study participants.

Additionally, the talk provides insight into the roles of various stakeholders involved in clinical research, including investigators, sponsors, regulatory authorities, and patients. By offering a structured and accessible overview, this presentation aims to enhance understanding of how clinical trials contribute to medical innovation and improved patient care.