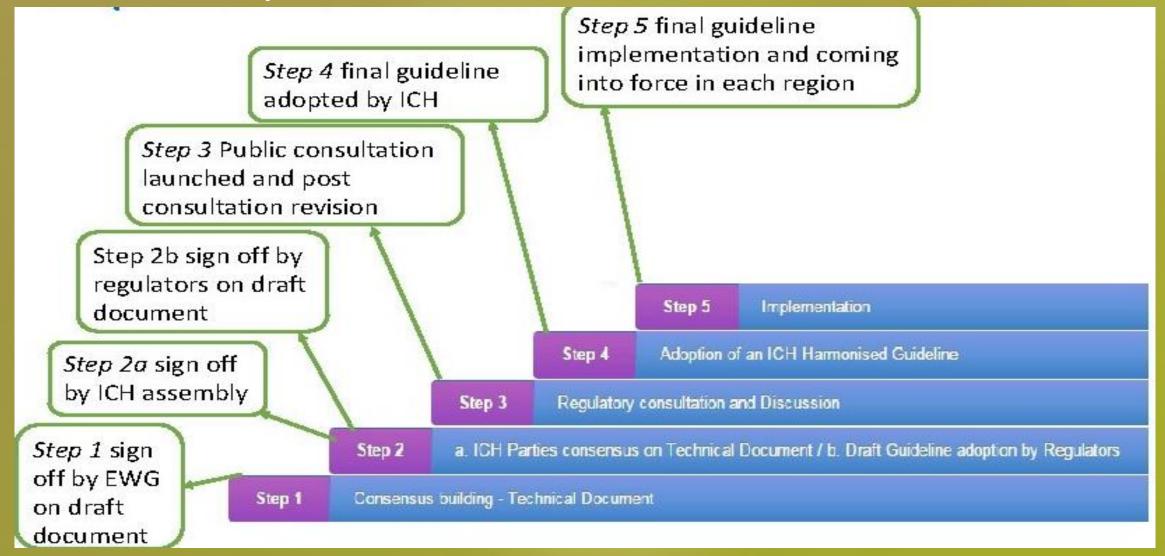
ICH Guidelines: PROCESS

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Steps involved in ICH Procedures



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Step 1:- Drafts are prepared and circulated through many revisions until a "final harmonized draft" is completed under the leadership of the Rapporteur.

Step 2:-This draft is signed by the expert working group (EWG) as the agreed-upon draft and forwarded to the Steering Committee for signing, which signifies acceptance for consultation by each of the six co-sponsors.

Step 3:-This comment period normally takes six months. If both regulatory and industry parties of the EWG are satisfied that the consensus achieved at Step 2, the document with regulatory EWG signatures is submitted to the Steering Committee to request adoption as Step 4 of the ICH process.

Step 4: It is reached when the Steering Committee agrees that there is sufficient scientific consensus on the technical issues.

Step 5: The process is complete when the guidelines are incorporated into national or regional internal procedures

ICH Guidelines(Q.S.E.M

ICH Guidelines have been adopted as law in several countries, but are only used as guidance for the US Food and Drug Administration.

The guidelines of ICH may be broadly categorized into four types:-



Quality Guidelines

Harmonisation achievements in the Quality area include pivotal milestones such as the conduct of stability studies, defining relevant thresholds for impurities testing and a more flexible approach to pharmaceutical quality based on Good Manufacturing Practice (GMP) risk management.



Safety Guidelines

ICH has produced a comprehensive set of safety Guidelines to uncover potential risks like carcinogenicity, genotoxicity and reprotoxicity. A recent breakthrough has been a non-clinical testing strategy for assessing the QT interval prolongation liability: the single most important cause of drug withdrawals in recent years.



Efficacy Guidelines

The work carried out by ICH under the Efficacy heading is concerned with the design, conduct, safety and reporting of clinical trials. It also covers novel types of medicines derived from biotechnological processes and the use of pharmacogenetics/genomics techniques to produce better targeted medicines.



Multidisciplinary Guidelines

Those are the cross-cutting topics which do not fit uniquely into one of the Quality, Safety and Efficacy categories. It includes the ICH medical terminology (MedDRA), the Common Technical Document (CTD) and the development of Electronic Standards for the Transfer of Regulatory Information (ESTRI).

Quality Guidelines

- Q1A Q1F Stability
- Q2 Analytical Validation
- Q3A Q3E Impurities
- Q4A Q4B Pharmacopoeias
- Q5A Q5E Quality of Biotechnological Products
- Q6A- Q6B Specifications
- Q7 Good Manufacturing Practice
- **Q8 Pharmaceutical Development**
- Q9 Quality Risk Management
- Q10 Pharmaceutical Quality System
- Q11 Development and Manufacture of Drug Substances
- Q12 Lifecycle Management
- Q13 Continuous Manufacturing of Drug Substances and Drug Products
- Q14 Analytical Procedure Development

Safety Guidelines

S1A - S1C Carcinogenicity Studies

S2 Genotoxicity Studies

S3A - S3B Toxicokinetics and Pharmacokinetics

S4 Toxicity Testing

S5 Reproductive Toxicology

S6 Biotechnological Products

S7A - S7B Pharmacology Studies

S8 Immunotoxicology Studies

S9 Nonclinical Evaluation for Anticancer Pharmaceuticals

S10 Photosafety Evaluation

S11 Nonclinical Paediatric Safety

S12 Non-clinical Biodistribution Considerations for Gene Therapy Products

Efficacy Guidelines

E1 Clinical Safety for Drugs used in Long-Term Treatment

E2A - E2F Pharmacovigilance

E3 Clinical Study Reports

E4 Dose-Response Studies

E5 Ethnic Factors

E6 Good Clinical Practice

E7 Clinical Trials in Geriatric Population

E8 General Considerations for Clinical Trials

E9 Statistical Principles for Clinical Trials

E10 Choice of Control Group in Clinical Trials

E11 - E11A Clinical Trials in Pediatric Population

E12 Clinical Evaluation by Therapeutic Category

E14 Clinical Evaluation of QT

E15 Definitions in Pharmacogenetics / Pharmacogenomics

E16 Qualification of Genomic Biomarkers

E17 Multi-Regional Clinical Trials

E18 Genomic Sampling

E19 Safety Data Collection

E20 Adaptive Clinical Trials

Multidisciplinary Guidelines

M1 MedDRA Terminology

M2 Electronic Standards

M3 Nonclinical Safety Studies

M4 Common Technical Document

M5 Data Elements and Standards for Drug Dictionaries

M6 Gene Therapy

M7 Mutagenic impurities

M8 Electronic Common Technical Document (eCTD)

M9 Biopharmaceutics Classification System-based Biowaivers

M10 Bioanalytical Method Validation

M11 Clinical electronic Structured Harmonised Protocol (CeSHarP)

M12 Drug Interaction Studies

M13 Bioequivalence for Immediate-Release Solid Oral Dosage Forms

References

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