

DRUG REGULATORY AFFAIRS IN CLINICAL RESEARCH AND IT'S SCOPE

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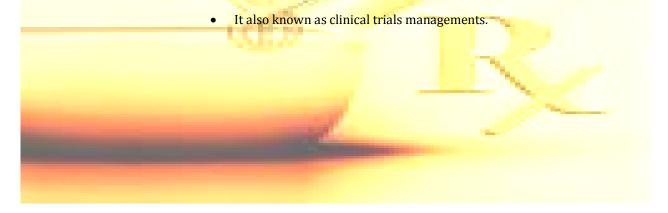
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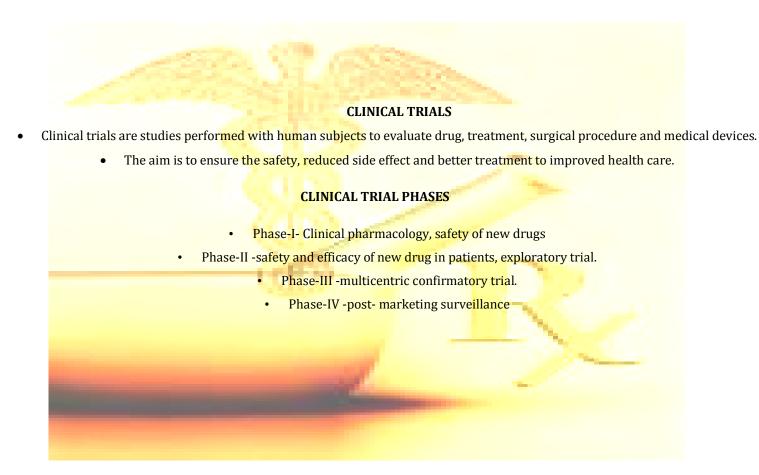
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- Clinical --- Treatment of patient
- Research --- Systematic treatment & study in order to reach a new conclusion
- Thus it is defined as organized research on human beings intended to provide adequate information to the drugs as a therapeutic agent for is safety & efficacy.







CLINICAL TRIALS										
	Preclinical Testing		Phase I	Phase II	Phase III	*	FDA		Phase IV	
Years	3.5	3	1	2	3	FDA process	2.5	12 Total	Additional Post marketing testing required by FDA	
Test Population	Laboratory and animal studies	File	20 to 80 healthy volunteers	100 to 300 patient volunteers	1000 to 3000 patient volunteers			,		
Purpose	Assess safety and biological activity	IND at FDA	Determine safety and dosage	Evaluate effectiveness, look for side effects	Verify effectiveness, monitor adverse reactions from long-term use		Review process / Approval			
Success Rate	5,000 compounds evaluated		5 enter trials				1 approved			





ROLES OF REGULATORY AFFAIRS

- Ensuring that a company's products comply with the regulations of the Global drug regulatory agencies
 - keeping up to date with a company's product range
 - Developing and writing clear arguments and explanations for new
 product licenses and license renewals
 - Preparing submissions of license variations and renewals
 - Monitoring license variations and renewal approvals

- Writing clear, accessible product labels and patient information leaflets
 - Planning and developing product trials and interpreting trial data
 - Undertaking and managing regulatory inspections
- Reviewing company practices and providing advice on changes to systems
 - Specifying storage, labeling and packaging requirements.

THE SCOPE OF CLINICAL RESEARCH

- The demand for clinical research professional is seems to be increasing in the recent past years in India.
- With a conspicuous figure of \$1 billion, this business field has touched the new height in 2010 in the global market.
- This indeed has raised the requirement of professionals in this field and has brought in a whole new positive change in the nation's economy and medical sector.
- As per a recent survey conducted there are more than 50,000 job openings available in India in this year and figures seem countless worldwide. All these facts

are making this field, one of the most promising careers for sure.

• Undoubtedly, clinical research in India promises to be a convincing career choice for many.



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CARRIER IN CLINICAL RESEARCH

Pharma company	Data managements	Site management	Clinical research training
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 Clinical trial assistant 	 Data entry operator 	 Clinical research co- 	 Trainer clinical trial
(CTA)	 Data manager 	ordinate	management
Clinical research	Data validation	 Principle investigator 	Trainer Data
associates (CRA)	executive	•Co-investigator	manager
• Senior CRA	•Q A manager	• Medical monitor	Trainer Project
Clinical team leader	•QA executive	Project manager	manager
Project manager	•Data reviewer	Senior manager	Trainer director
• Senior PM	•Data base designer	• Medical &	Trainer co-
Medical & regulatory	•Head data manager	• Metrical &	ordinate
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• Q A manager			• Trainer
Medical director			
 Associate director 			



SOME PHARMA COMPANIES IN CLINICAL RESEARCH





- Clinical research is an integral part of drug development.
- Unlike the past, today the process has gained a unique position due to the regulatory requirements and ethical guidelines available globally.
 - Designing, conducting, monitoring, appropriate quality assurance and data management determine the success of the clinical research.

