

# **Clinical Research Overview**

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## **Greetings from London!**







## The clinical trial pathway





- Blockbusters
- e.g. Cardiovascular market
- Traditional clinical trial design
- Paper versus technology

#### Where are we?

- Shift to personalized medicines
- Oncology key market
- Infectious diseases
- Orphan drugs
- Biosimilars

# Where to?

- Personalized medicine standard practice
- Cancer / Gene therapy / Immuno-therapy
- Intra patient clinical trials
- Pandemics / epidemics

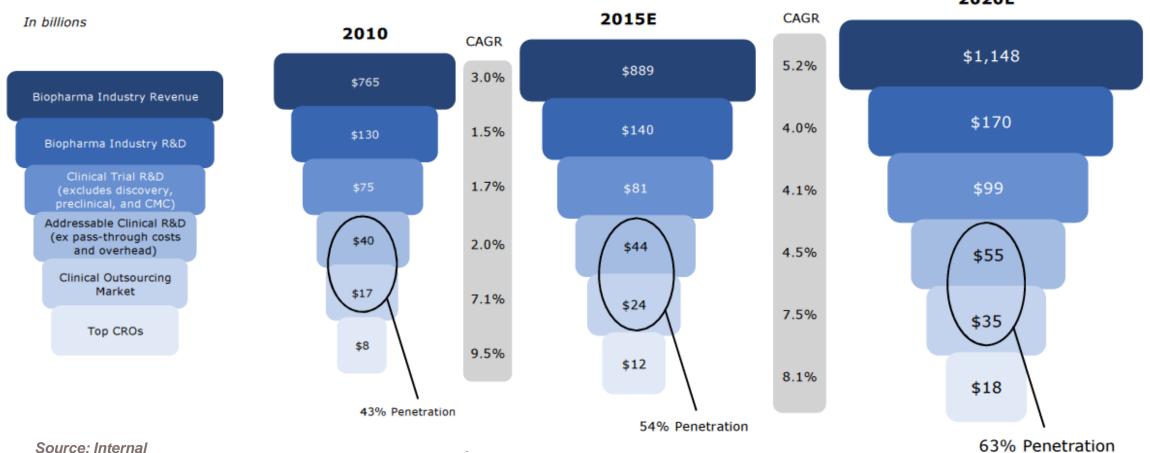
## Key drivers for clinical trials for now and the future

- Financial pressures on pharmaceutical companies and intense competition
- The so called "patent cliff" driven Pharma to re-think their strategies
- Current R&D spend
- Companies externalizing costs to CROs and other service providers
- Reliance on Biotech companies to push early development



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## **Summary of estimated Clinical Trials spending versus** industry revenues



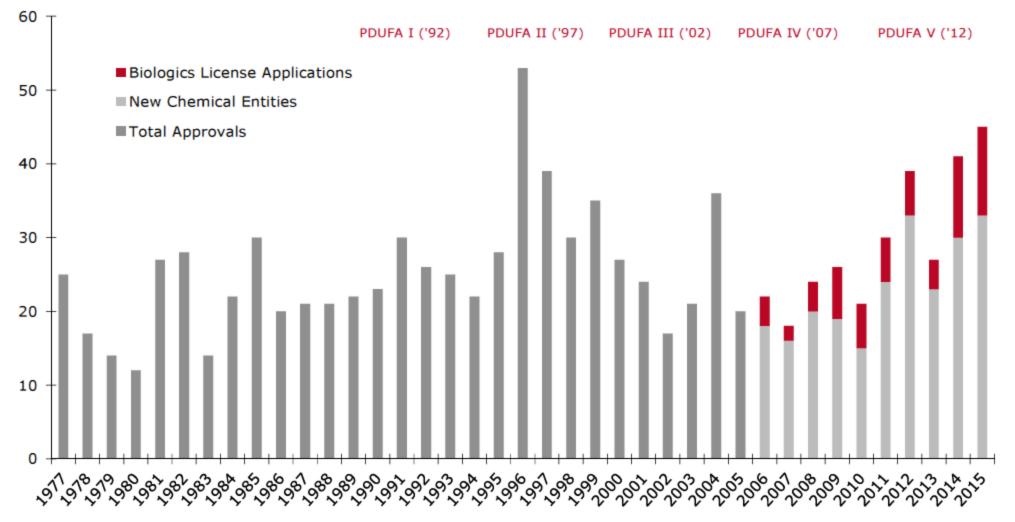
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# New drug approvals at the FDA have increased dramatically, especially Biologics





Source: FDA.gov,

## **Factors affecting drug development strategies**

- Ageing population
- The increase in certain diseases and targeted focus
  - CNS Alzheimer's / Parkinson's
  - Cancer shift from standard broad spectrum treatments to patient specific approaches
    - Biologics
    - Immuno therapies
  - Orphan Drug
  - Biosimilars
- Number of clinical trials not increasing remarkably but more complex studies

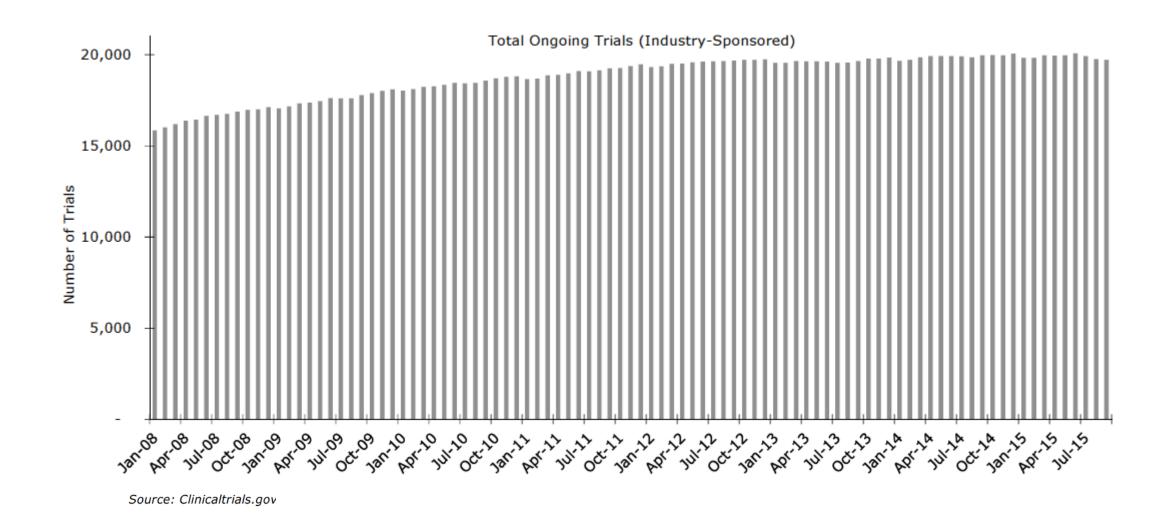






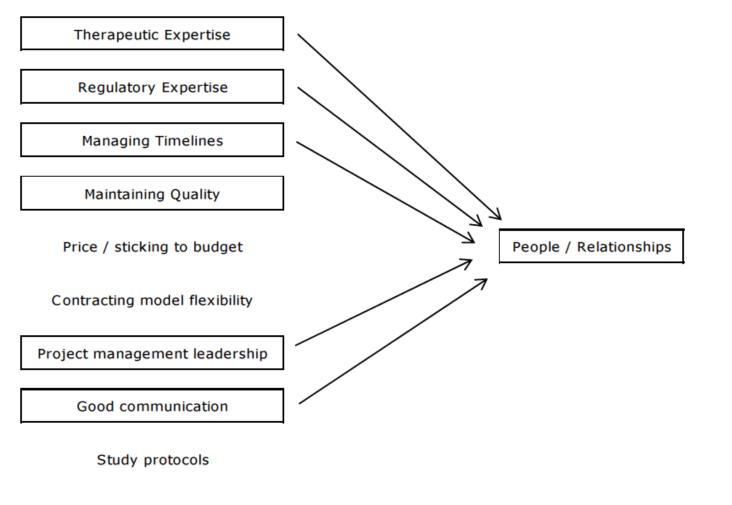
The number of trials has flattened – suggests higher complexity of studies





## What DO Sponsors Value?





Geographic reach

## Key drivers for clinical trials now and the future



Need for patients

- Complex studies with defined patient characteristics
- Broader reach for patients
- Competitive
  environment

#### Need for speed

- Start up
- Regulatory / Ethics
  Committees
- Site contracts
- Recruitment
- Data review

Need for expertise & technology

- Medical & scientific expertise
- Experienced clinical trial sites
- Technology advances
- Electronic Data Capture
- Risk Based Monitoring

## Where can Latin America help?



Need for patients

- Vast population 600M
- Large urban centres
- Specific disease populations

#### Need for speed

- Regulatory timelines
- Site contract negotiations
- Patient recruitment

Need for expertise & technology

- Highly trained medical personnel
- Experienced clinical trial sites and investigators
- Good infrastructure in urban centres

## **Registered Studies in Latin America**



**Registered studies (active industry)** Brazil Chile Colombia Argentina

Source: Clinicaltrials.gov

**Quality considerations - FDA Inspections 2005 – March 2014** 



#### Figure 7: FDA Inspections 2005-March 2014

Region	Countries Included (excluding countries with no inspections)	Inspections Since 2005	No Action Required	Voluntary Action Indicated	Official Action Indicated
CIS	Georgia, Russia, Ukraine	102	70.6%	28.4%	1.0%
Latin America	Argentina, Brazil, Chile, Colombia, Costa Rica, Ecuador, Guatemala, Mexico, Peru	100	61.0%	38.0%	1.0%
India	India	44	59.1%	40.9%	0.0%
CEE	Bulgaria, Croatia, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Poland, Romania, Serbia, Slovakia	166	54.2%	45.2%	0.6%
Western Europe	Austria, Belgium, Denmark, Finland, France, Germany, Italy, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom	242	50.8%	48.3%	0.8%
United States	United States	2099	49.5%	43.7%	6.7%
Asia Pacific	Hong Kong, Malaysia, Philippines, South Korea, Taiwan, Thailand	48	47.9%	52.1%	0.0%
China	China	19	42.1%	57.9%	0.0%

Source: http://www.fda.gov/downloads/Drugs/InformationOnDrugs/UCM111343.zip

## **Advantages and challenges in Latin America**

#### Pros

- Access to clinical trial patient population
- Large urban centres
- Highly qualified and trained personnel
- Recognition of industry standards ICH / GCP
- Only 2 languages Spanish & Portuguese

#### Cons

- Regulatory and EC timelines still a challenge for study start up
- Site contracts complex and not standard

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• Cultural misunderstandings

## **Key points for discussion**







# Thank You