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Drug Regulatory Process – Latin America Indian Perspective

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Regulation

Product regulation requires, a balance between protecting public health through an extensive evaluation of a particular product and promoting public health by making needed products available without undue delay.



Latin America – Drug Exports

- Under-served patient population of more than 500 million
- Market worth about USD 41 billion
- Growth rate 8.5% every year
- Growth in Prescription Drugs sales 12.7% to USD 33.6 bn
- Expected to grow to USD 63 billion by 2012
 - Mexico - USD 14.1 bn
 - Brazil - USD 13.6 bn
 - Argentina - USD 4.7 bn
 - Venezuela - USD 4.0 bn
 - Colombia - USD 1.8 bn
 - Chile - USD 1.5 bn
 - Peru - USD 1.0 bn



Latin American Markets

- Brazil, Mexico, Venezuela , Ecuador and Colombia are some of the major pharmaceutical markets
- Brazil and Mexico considered Regulated Markets
- ANVISA : Stringent norms comparable to USFDA
- Brazil : As per ANVISA's norms ,CROs used for BE studies have to be approved and certified by the Brazilian authority. For BE studies, innovator product manufactured in Brazil has to be used for comparison



Latin American Markets

- Mexico : Largest LA Market. Brazil : Total market value of US \$5.2 billion. Generic market of approx. US \$1 billion. ANVISA has implemented generic law to facilitate generic market entry into the country
- Mexico: Extensive analytical raw data of 3 stability batches.
- Venezuela : Copies of source data



Latin America

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- 1 Brazil
 - 2 Mexico
 - 3 Argentina
 - 4 Venezuela
 - 5 Chile
 - 6 Colombia
 - 7 Peru
 - 8 Ecuador
 - 9 Cuba
 - 10 Guatemala
 - 11 Dominican Republic
 - 12 Costa Rica
 - 13 Trinidad and Tobago
 - 14 Uruguay
 - 15 El Salvador
 - 16 Panama
 - 17 Jamaica
 - 18 Bolivia
 - 19 Honduras
 - 20 Paraguay
 - 21 Bahamas
 - 22 Nicaragua
 - 23 Haiti
 - 24 Barbados
 - 25 Netherlands Antilles
 - 26 Suriname
 - 27 Belize
 - 28 Antigua and Barbuda
 - 29 Saint Lucia
 - 30 Guyana
 - 31 Grenada
 - 32 Saint Kitts and Nevis
 - 33 Saint Vincent and the Grenadines
 - 34 Dominica



Drug Regulation

- Product registration
- Marketing authorization
- Monitoring safety and efficacy post-marketing
- Regulation of drug production, import and distribution
- Drug marketing
- Drug information



Drug Regulatory Requirements - Technical

- Manufacturing Facility Inspections
- Analytical data – API, Finished Product
 - Specifications, MoA, References
- Samples and CoAs
- Analytical Method Validation (API, FP)
- Packaging Material Specifications
- Medical Data
- Product Information
- Dissolution Data
- Bio-equivalence Studies (Study site approval)



Drug Regulatory Requirements - Technical

- Manufacturing Formula and Justification
- Manufacturing Process
- Process Validation
- Batch Numbering
- Batch Records
- Stability Studies (Source Data)
 - Accelerated
 - Long Term



Drug Regulatory Requirements - Legal

- Free Sale Certificate / Product Permission
- GMP Certificate
- Manufacturing License
- Power of Attorney / Contract
- Trademark Registration
- Contract with local quality control facility



Critical Success Factors

- US FDA / UK MCA / TGA approved facilities
- Strong Regulatory Support
- Good Distribution Set up
- Price Competitiveness
- Good Marketing Support
- Strong group for registering products in place
- Expansion in new markets and new products under feasibility studies



Stability Issues

- CTD norms are taken as guidance for regulatory aspects during drug development
- Major discrepancies in requirements of storage conditions for various countries
- Stability studies on three batches - as per ICH guidelines / individual country norms ?
- ICH – Zone IV – 30°C / 70% RH
- Mexico, Costa Rica, Chile, Dominican Republic, Colombia – 30°C / 65% RH
- Venezuela, El Salvador – as ICH



Thank you !!!
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