











4 P's of Medical Device Product Development

- Patients
- Physicians
- Payers
- Providers
- ▶ Approval by Government Agency

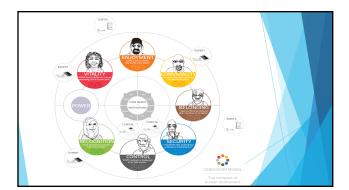
Medical Device Industry The Use Case of the Device by Patients and other key stakeholders is critical They are end consumer of the product



Concept Exploration for Patients

- Explore to understand current state
 - Person vs. Patient
- ▶ What are current challenges
 - observed
 - ▶ stated
- ▶ What are current methods they use to remove the challenges/barriers
 - ▶ how satisfied are they
- ▶ What are other methods/ideas could be used to remove these barriers

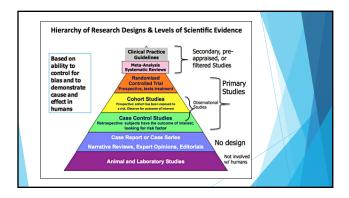




Physician Roles in Product Development

- Ethnography or In Depth Interviews about current practice
- ➤ GAP or Needs analysis
 ➤ Subject Matter Expert
- ► Scientific Advisory Board
 - Design of clinical trials and expected outcomes
 Review of evidence
 Publication or Evidence Creation
- ▶ Idea owner/Patient Owner/Major Stakeholder
 - ▶ Key in product development

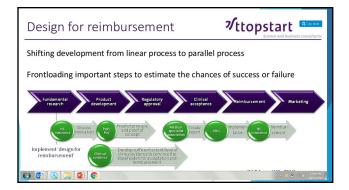




Clinician Role vs. Patient Role Patient Target customer for use of product Remove identified "Pains" from previous or current product Target population and use case Intended vs. unintended use Description of who can use and who cannot use FDA approval pathway

Provider or Distributor of Medical Product Intermediary or distributor to end consumer Pharmacy, durable medical provider, Retailer or Big Box store, On-line Improvements in product development maybe to aid distributor Cost effective or time savings One Box Bundled set up One touch delivery Improving Distribution methods

Payer for the Product ▶ Reimbursed vs. Over the Counter (OTC) ▶ Every country has different ways to reimburse ▶ Payer Coding scheme's ▶ HCPCs ▶ CPT ▶ ICD 10 ► Coverage ▶ Medicare ▶ Medicare ▶ Medicard ▶ Local and National Coverage: LCD ▶ Reimbursement/Payment ▶ Payment



Summary Medical Device companies need to take into account a variety of stakeholders when developing a product Innovation can be for any of the key stakeholders A variety of testing and validation methods can and should be used when developing new solutions for medical conditions







