

Your world leading CDMO.

## Packaging Engineering Services

As a world class CDMO, we relentlessly strive to deliver better health outcomes for the patients we serve by combining our experience and expertise in science, manufacturing, and technology with our pristine customer service.

Following the prototyping phase of the package design and development process, PCI's packaging engineers provide extensive proof of concept testing capabilities, manage safety requirements, assist with material selection, and work with cross-functional operational groups to ensure your package will run efficiently on the packaging equipment.

Data from the testing process is then used to support regulatory compliance, our rapid sample production of commercial grade prototypes can accelerate this evaluation phase and ultimately aid speed-to-market.

### Capabilities Include:

#### Child-Resistant (CR)/Senior-Friendly (SR) Testing

- Evaluation of effectiveness with respect to ease of use or end user experience for seniors
- Ability to protect the product from unwanted access by children

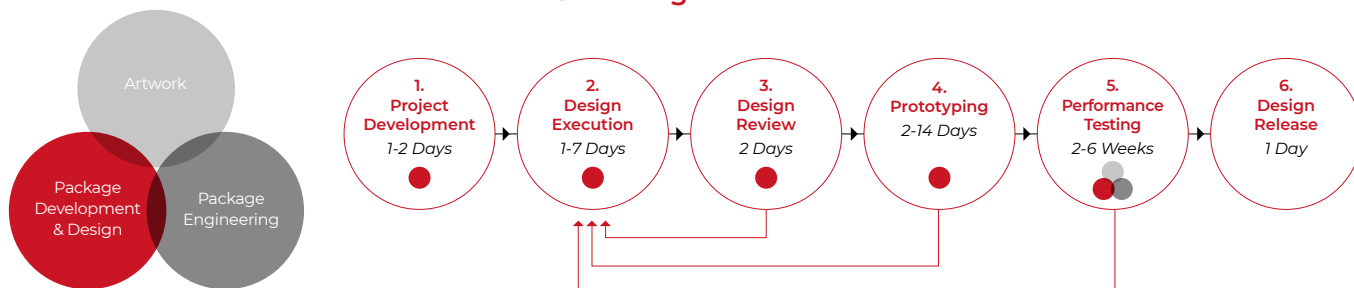
#### Market Research

- Comparison of new products entering the market
- Ensure proposed design is compatible with your product and brand
- Shelf appeal evaluation and differentiation

#### Human Factor Studies

- Develop testing protocol to meet your unique product needs
- Identify potential patient user errors through interaction with the packaging
- Root cause analysis of potential human errors which can be corrected by the packaging design team efficiently and effectively

### Our Design Process



# Packaging Engineering Services *(cont)*

## Distribution Simulation Tests

- Simulates drops and vibrations generally experienced by packages during transit which can be adjusted and customized based on known and unknown shipping hazards
- Ensures high confidence in product safety, integrity and identification post transportation
- Helps reduce risk of faulty and damaged goods, recalls, or negative impact on client and regulatory body relationships
- Data from these studies is then used for regulatory compliance

## Packaging Line Trials

- PCI has insight into the manufacturability of our design concepts, taking the commercial ability into consideration from the very beginning of the design process
- To mitigate risk, commercial grade prototypes are used for line validation and verification to ensure your product runs at the highest efficiency

