Assess. Adapt. Accelerate.

PPD | Quotient Sciences

PEDIATRICS

Partnering to accelerate pediatric drug development

Quotient Sciences and PPD provide an innovative solution to accelerate pediatric drug development by offering industry-leading, end-to-end support for all stages — from formulation development and clinical manufacturing, through conduct of all clinical trial phases, to commercial production.

End-to-end pediatric development solution

Through partnership we can provide one solution to execute an entire pediatric program with the potential for one contract and a single point of contact. This integrated offering accelerates cost-effective drug development by:

- Increasing program efficiency — manufacturing and supply can be tailored for patient recruitment
- Reducing Active Pharmaceutical Ingredient (API) use — Quotient can develop and manufacture medicines in small, flexible and custom batches resulting in reduced overall API amounts and associated cost
- Shortening the timeline between manufacture and dosing — decreasing the need for long stability studies
- Offering access to a global team of pediatric development experts
- Providing regulatory consulting through every step of the process

Our integrated offering accelerates drug development

Partnering to accelerate pediatric drug development

Our unique pediatric offering

Quotient works to accelerate the development of new drugs for patients around the world by providing formulation development, clinical pharmacology, and clinical and commercial manufacturing services. We deliver an innovative portfolio of services and solutions that shortens development timelines, reduces costs and accelerates the delivery of new medicines.

We provide specific expertise to meet the challenges of developing medicines for children.

Our unique pediatric offering includes:

- Designing and developing age-appropriate formulations focused on patient and caregiver compliance
- Utilizing taste-modifying and taste-masking techniques to ensure palatability
- Rapidly optimizing and validating taste attributes and pharmacokinetic performance
- Applying modeling and simulation to understand drug dosage and performance
- Manufacturing and supplying products for dosing globally with only one to three weeks' notice
- Commercial manufacturing for international markets

Our formulation capabilities

We select from a full range of formulation technologies and taste-masking strategies, with a focus on excipient selection and acceptability for the target age range. Available formulation and taste-masking strategies include:

Formulation options	Taste-masking strategies
Solutions	Sweeteners Flavorings Taste modifiers Complexation
Powders and granules for reconstitution	
Orodispersible/chewable preparations	
Multiparticulates	Coatings Complexation
Complexation Minitablets	
Minitablets	
Sprinkles	Food

Benefit from PPD's extensive pediatric trial experience

PPD have a deep understanding of the challenges associated with developing new medicines for children and they leverage their cross-therapeutic experience and expert pediatric team to successfully execute trials across all phases.

Expertise and offerings include:

- An experienced and dedicated cross-functional leadership team, oversees all pediatric-related drug development activities
- Pediatric Investigator Network, a network of 14 global pediatric centers of excellence established to accelerate and optimize the development of therapies specifically for pediatric populations
- A community-based network in the United States comprised of over 60 clinics and hospitals that focus on a variety of common pediatric indications, allowing them to deliver comprehensive pediatric site strategies across multiple therapeutic areas

PPD's experience

- 350+ pediatric studies
- Experience in over 95 countries
- >100,000 patients
- >9,800 sites

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Quotient Sciences