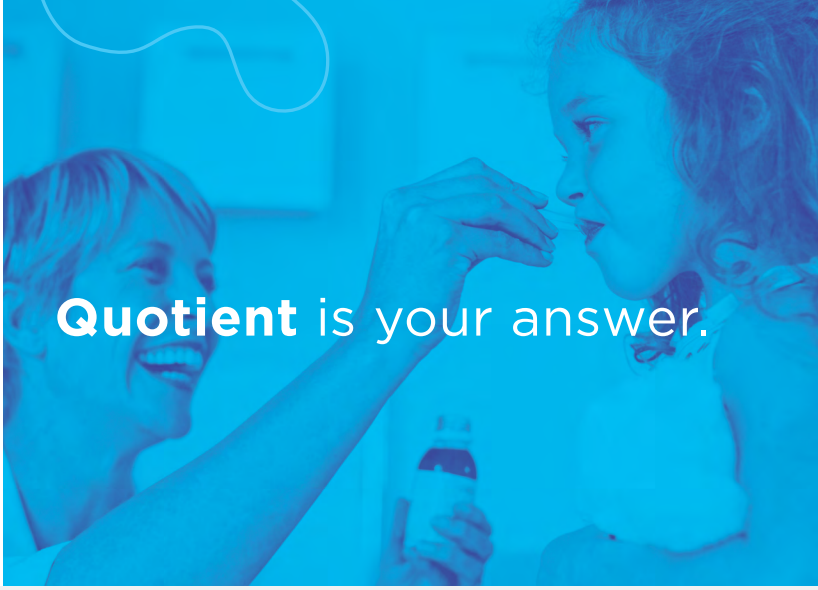
How do I access a customized solution for my pediatric program?



Pediatrics Services at Quotient Is Your Answer

With a comprehensive knowledge of patient needs as well as regulatory requirements, Quotient Sciences understands that acceptability and palatability are key to your successful pediatric formulation.

Our expertise and capabilities enable us to meet the complex technical challenges of pediatric products and provide you with a unique integrated development solution. Access a customized pharmaceutical development program for your preformulation, formulation, analytical characterization, product stability, process development, clinical trial supplies, regulatory needs and commercial production.

Formulation development

Our scientists have considerable experience developing palatable formulations in the OTC and consumer health care industry and have successfully developed pediatric pharmaceutical formulations that have received regulatory approval. We select from a full range of formulation approaches with a focus on excipient selection and acceptability for the target age range.

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

Taste masking

We have an extensive track record developing age-appropriate dosage forms of aversive, bitter drug substances using a range of taste-modifying and taste-masking techniques without compromising on product stability and pharmacokinetic (PK) performance.

Taste assessment and PK studies

Using our integrated GMP manufacturing and clinical testing platform, we perform rapid, adaptive trials in humans to optimize taste attributes and/or PK performance to ensure clinical validation prior to proceeding to pivotal pediatric trials. We modify formulation compositions in real time based on emerging clinical data.

What can Quotient's pediatrics services do for me?

- Design and develop age-appropriate formulations focused on patient and caregiver compliance
- Utilize taste-modifying and taste-masking techniques to ensure palatability
- Rapidly optimize and validate taste attributes and PK performance using adaptive clinical trials
- Apply modeling and simulation to understand drug dosage and performance
- Manufacture and supply products for dosing globally with only one to three weeks' notice
- Perform commercial manufacturing for global markets

Quotient Sciences
Assess. Adapt. Accelerate.

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Global patient clinical supplies

We manufacture, package, release and supply GMP drug products ready for dosing on a worldwide basis in line with your study and recruitment needs. Our flexible options range from a personalized, per-patient basis to more traditional batch manufacturing. These customizable batch sizes conserve your API and reduce waste in the manufacturing process.

Commercial manufacture

Our production facility in Philadelphia specializes in low-volume products and is fully inspected and approved by the MHRA and the FDA.

PIP/PSP regulatory support

We support regulatory processes for your Pediatric Investigation Plans and Pediatric Study Plans.

"Quotient Sciences has worked with us on several pediatric projects and been very effective in translating our product concepts into successful prototype formulations. We really appreciate the way they tune in to the broader, long-term objectives of our projects and are agile in delivering specific work packages that will contribute to the overall project's success. They are skilled in applying their extensive technical expertise and understanding of the full pediatric pharma development process. Importantly, they are great at adapting to change and tenacious when it comes to problem solving. They have proved to be an essential resource in developing our pediatric portfolio."

Clare Gleeson
Operations Manager, Proveca

Who is Quotient Sciences?

At Quotient, we work to accelerate the development of new drugs for patients around the world by providing formulation development, clinical pharmacology, and clinical and commercial manufacturing to the pharmaceutical and biotech industry. We have innovated a new approach to drug development called Translational Pharmaceutics® that reduces costs and shortens timelines by integrating formulation development, real-time adaptive GMP manufacturing and clinical research for the continuous improvement of development programs. We answer the industry's tough questions through our individual services and integrated solutions.

Learn how Quotient is your answer.

Translational Pharmaceutics®

Formulation Development

Clinical Trial Manufacturing

Clinical Pharmacology

Commercial Manufacturing

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