

7 STRATEGIES TO AVOID COMMON PITFALLS IN VACCINE DEVELOPMENT

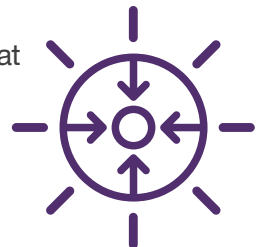
2000-2019 An estimated **52 million** deaths were averted due to vaccines. The success of COVID-19 vaccines has launched many new vaccines into development. As competition increases, **these seven strategies can make a huge difference in your development plan.**

1 End-To-End Clinical Consulting Services

Focus on solutions

Develop a plan that spans your vaccine's entire life cycle **Partner with an expert team** that leverages technology and therapeutic expertise across the entire clinical trial landscape

- Physicians
- Biostatisticians and clinical scientists
- Study operations and optimization experts
- Product development experts



2 Deep Insights on Criteria for Regulatory Success

Save time

Choose a collaborative team of experienced regulatory experts with access to contract resources that deepen your team's understanding of the development process

Experienced regulatory strategists

- Understand and infuse expertise into the regulatory process
- Streamline approval by anticipating questions and concerns in the initial stages
- Provides integrates scientific best practices throughout the vaccination journey



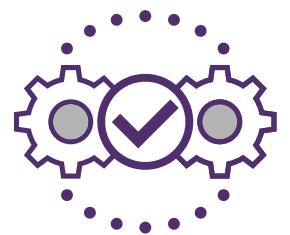
3 Clinical Trial Execution Expertise

Execute effectively

Trials demand agility to adapt to changing study environments

Keep your study agile through:

- Planning that takes your project from start to finish
- Flexible patient care options
- Remote monitoring and integration



4 Complexities of Market Access and How to Maximize Value

Navigate wisely

Market access is complex and can take years to achieve post-approval Pressure testing your evidence strategy early can accelerate this process

A skilled partner can navigate the complexities and nuances of your country's National Immunization Technical Advisory Group



5 Real-World Evidence and Ongoing Data Collection

Gather good data

Partnering with a CRO (Contract Research Organization) enables you to:

- Identify the right evidence for the right audiences
- Collect and analyze robust data from diverse sources
- Quantify a variety of outcomes
- Monitor long-term safety and effectiveness in the real world
- Measure your vaccine's key performance indicators



6 Production and Supply Chain Management

Deliver efficiently

In 2020, manufacturers encountered many obstacles getting the COVID-19 vaccine to market Supply chain and production must stay smooth to not disrupt or stall development

Work with a partner that:

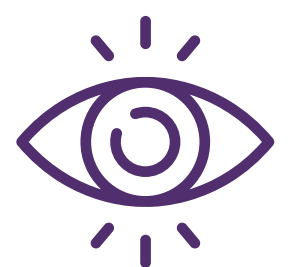
- Invests in local suppliers
- Has established relationships with robust supply networks
- Has a designated manufacturing facility to mitigate supply and compliance issues



7 Future-Focused Outlook

Look to the Future

- COVID-19 spurred a renewed interest in vaccine development
- The vaccine space is becoming fiercely competitive
- Companies will require a partner with an eye for innovation
- The right vaccine development partner will make all the difference



Learn more at ppd.com/vaccines