



Laboratory Solutions for Decentralized Clinical Trials

Prioritizing patient care through hybrid and fully remote laboratory solutions that enhance patient-centered clinical trials

In the complex and rapidly evolving clinical research landscape, patient-centricity has emerged as a guiding principle, and it's at the heart of our Decentralized Trial Clinical Laboratory Services.

To improve the patient experience, hybrid and decentralized clinical trial models have become increasingly prevalent. Patients are interested in getting involved in critical research but also want flexible options to make participation easier. Integrating digitized laboratory solutions, such as online ordering and direct-to-patient shipping of specimen collection kits and supplies, use of point-of-care testing and connected devices, as well as at-home or off-site sample collection into clinical trials, can help reduce burdens placed on patients, caregivers, and site staff.

Global reach with patient empathy in mind

Our transformative patient-centric laboratory solutions are delivered with the same high quality and consistency that sponsors expect. Through hybrid and fully remote laboratory solutions, we can offer sponsors our global footprint of expertise and solutions to conduct trials with efficiency and safety in mind while ensuring patients have the necessary logistical and operational support to participate in trials from wherever they may be.



Imagine a world where patients can participate in critical clinical trials from their community, reducing time and travel burdens.

94%

of investigators would be interested in a study using a **hybrid decentralized** approach

+71%

of investigators agree that decentralized trials **reduce the burden on participants**

+68%

of patients expect **flexibility and remote options**, like telehealth and in-home care, when participating in trials

Data collected from IQVIA's global patient surveys conducted in 2020 and 2021 including viewpoints from approx. 7,500 members of IQVIA's patient and site communities.

Advanced DCT laboratory solutions

In taking time to understand what patients need to participate in trials and stay engaged, Q² Solutions has developed and implemented several key DCT solutions, keeping much-needed research on track while providing sponsors with an opportunity to secure richer insights from increasing data collection.

Self-collection of specimens

In sending specimen collection devices directly to patients, individuals can collect their own samples and send them to one of our global laboratory sites for testing. At Q² Solutions, we partner with several qualified and experienced self-collection device manufacturers in building a validated menu to support these collection modalities.

Point-of-care testing at home

Laboratory-grade point-of-care testing (POCT) devices are increasingly being deployed at investigator sites to screen and enroll patients in a single visit, help reduce screen failure rates via a pre-screening step, and provide rapid results to the investigator. Until now, POCT devices were not integrated with the central laboratory, and the data was not used for regulatory submissions. With the use of connective technology, we can connect POCT devices to our central laboratory system, allowing medical monitors to view laboratory reports and study teams to receive data transfers.

Just as POCT at sites has evolved, the same is true for POCT at home. While the number of tests is limited today, POCT at home is beginning to emerge as a DCT approach, and we are pleased to partner with manufacturers of tests and our biopharmaceutical clients to help unlock the potential. This opportunity not only benefits the individual's health but also contributes significantly to the progress of medical science, paving the way for more effective and targeted treatments in the future.

Remote specimen collection

To offer patients convenience in participation, we work with IQVIA's global Research Nurses and Phlebotomists Solutions (RNPS) network and partner with other mobile nurse and phlebotomy companies to support in-home specimen collection as well as specimen collection at Quest Diagnostics patient service centers (PSCs) across the United States. To date, our team has managed laboratory testing for more than one hundred studies using remote/near patient collection services across many therapeutic areas such as oncology, cardiovascular, neurosciences, respiratory, and others.

Direct-to-patient (DTP) kit shipments

As self-collection and home healthcare become more prevalent in clinical trials, so does interest in shipping specimen collection kits directly to patients' homes. The Q² Solutions DTP Kit Distribution service enables specimen collection kits to be shipped directly to patients on behalf of trial investigators while maintaining heightened oversight of sensitive patient protected health information, keeping patient data secure.

Direct-from-patient (DFP) sample shipments

To support studies with remote collections, Q² Solutions partners with global courier companies to enable samples to be picked up from patients' homes and taken to either the trial site or testing laboratory. These experienced companies also support a hybrid laboratory solutions approach, which involves the patient or nurse taking their samples to a local courier office for sample drop-off at their convenience.

As we aim to meet patients where they are in their journey, we will continue to drive advanced DCT laboratory solutions forward, bringing hope and help closer to home.

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