



## Innovac® Quick-Draw® Capillary Collection System

INNOVAC QUICK-DRAW® makes your current collection system better. Vacuum collection and automatic sample mixing provides a sample with the potential for less clotting and hemolysis. INNOVAC QUICK-DRAW® can improve your current sampling process with improved samples and better patient experience.

### **What is it?:**

**Innovac®:** A handheld vacuum powered by a 9v alkaline battery.

### **QUICK-DRAW®**

The QUICK-DRAW® adapter fits onto the BD Microtainer® with Microgard® capillary collection vial. This assembly is attached to the INNOVAC® vacuum handle. After lancing the puncture site with your lancet of choice, the specimen is aspirated directly from the puncture site into the collection vial. The Q-D adapter contains a capillary that is internally coated with anticoagulant (EDTA in the purple adapter, heparin in the green). Blood comes into immediate contact with the anticoagulant as it is collected. As the vacuum aspirates more sample air being pulled through the vial “bubbles” the blood in the vial causing it to mix with the anticoagulant coating the vial. This eliminates the need for you to stop to tap and rock the Microtainer like you do now to mix the sample during collection. **Because the sample is immediately and continually mixed with the anticoagulant during collection, the sample has much less chance of clotting**, therefore yielding a better sample for the laboratory to analyze.

INNOVAC QUICK-DRAW® is especially beneficial for “slow bleeders” because any sample that is presented -- no matter how small the drop -- can be easily and completely collected. **This reduces the need to squeeze and milk the heel/finger and eliminating the need to “scoop” the sample, resulting in less hemolysis and pain/bruising for the patient.**

### **The benefits to using the INNOVAC QUICK-DRAW® system are:**

- High quality samples from capillary sampling – automatic sample mixing.
- Reduced hemolysis by eliminating scooping and less need for patient “milking”.
- Reduced bruising from heel “milking”
- Improved pain management in NICU
- Cost savings from reduced need to re-sample patients due to clotted or hemolyzed samples (time, supplies, analyzer reagents, patient satisfaction, etc.).
- Less chance for infection at additional puncture sites.
- Quicker and easier than venipuncture on hard-to-stick patients.
- Better patient experience for hard-to-stick patients.

**Who will use Innovac Quick-Draw?** Facilities currently collecting fingerstick and heelstick samples and anyone who draws blood. You don’t have to be currently collecting capillary samples. There are many patient types that are hard to venipuncture and Quick-Draw gives you a better option than before.

**Why use Innovac Quick-Draw?** Quicker, Cleaner, and higher quality samples. At least 9 out of 10 are looking for **a better way to collect capillary samples**. The current products on the market (Microtainer, Ram Scientific, Sarstedt, Safe Draw, Capi-Ject) can be difficult to use. They are messy (blood runs down the patient’s hand/foot or gets on the phlebotomist), and many times the sample is clotted or hemolyzed and is unusable by the lab – the patient has to be stuck again.

**If you don’t do fingersticks now, why would you want this?** This includes sites that don’t do lab work in-house. Most of them still draw their own specimens and send them to the reference lab. The reference lab provides the draw supplies and most likely will supply a BD Microtainer when requested. This gives you an opportunity to sell the draw site the Quick-Draw system to make the Microtainer easier to use. Almost everyone has difficult-to-stick patients -- children,

cancer patients, diabetics, geriatrics, obese patients, patients with fragile veins, etc. They will struggle with doing a venipuncture because, until now, capillary collectors were difficult to use and many times the samples were unusable. With Innovac Quick-Draw, capillary collections are quick and easy and yield a quality sample. The patient would much rather have their finger stuck once rather than their arm(s) stuck several times while they try to find a vein -- this is an unpleasant experience for the phlebotomist also.

#### **How is Innovac Quick-Draw different?**

The two most common causes for unusable and rejected samples are from samples that don't get mixed quickly or thoroughly enough with anticoagulants in the collection vial and from hemolyzed samples. For CBC specimens the blood is mixed immediately with EDTA anti-coagulant. In addition to the EDTA in the collection vial, EDTA coats the inside of the "straw" that is attached to the adapter cap. This means sample comes into contact immediately with anti-coagulant. Also, while the vacuum runs during sample collection, air pulled through the vial mixes the sample inside the vial (no more tapping and mixing the vial while collecting). **This means a thoroughly mixed sample.**

**What about hemolyzed samples?** The FDA asked us to address this in our 510(k) submission. In our clinical trial, there was no increase in hemolyzed samples compared with other collection methods. There is no scooping that damages cells and because there is less "milking" of the heel/finger, tissue fluid is also reduced. Unlike the other collection methods, a large "hanging drop" is not needed. For patients that are "slow bleeders" any size drop can be collected -- **no sample is wasted**. The vacuum pressure exerted on the sample is less than that inside a vacuum venous blood collection tube ("vacutainer").

**Using Innovac Quick-Draw for newborn and pediatric screening ("PKU", lead, etc):** After collection, the Quick-Draw / Microtainer unit is removed from the Innovac handle then attached to the Quick-Spot Specimen Dispenser. The Quick-Spot is used to push air slowly into the collector, thereby reversing the flow of blood out the tip of the collector. The Quick-Spot dispenses the precise amount of blood to fill the circle (75ul). This allows you to easily and accurately dispense drops onto the test circles producing perfectly filled circles on the card.

**How do you justify the added expense?** You will find that the savings in time, patient satisfaction, and lab reagents (you usually don't know the sample is unusable until you have run it on your analyzer) will outweigh the added expense.

**What does it run on?** Standard 9V alkaline battery. 500+ collections are expected between battery changes.

**How long does the motor last?** The motor is rated for 500 hrs of continuous use. Motor life is not an issue due the short and intermittent operation during collection. It is covered by a 12-month warranty.

**What keeps blood from going into the pump?** On the underside of the Quick-Draw adapter there is a micro-filter that keeps blood and any air-borne particles from leaving the vial. Inside the Innovac vacuum handle there is a replaceable disc filter that is in place just in case the first filter should ever fail. One of these is provided with every bag of 50 adapters to be changed at that time or to have on hand in case one is needed.