



# Prototype Testing

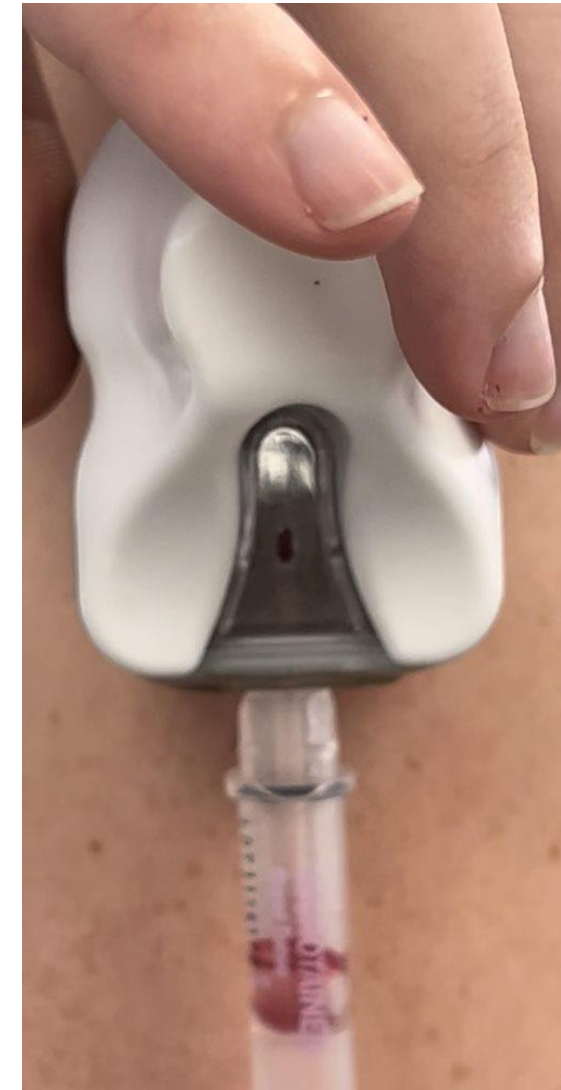


# Capillary Tube v2

- ◆ Blood volume collected: 82  $\mu$ L
- ◆ Ran test for 11 min, Subject: A.P.
- ◆ Took ~3 min for blood to flow
- ◆ Blood flow was very slow
- ◆ Formed a solid blood column that never reached the end of the capillary tube
- ◆ Vacuum held for duration of test, then sprayed blood into vial when removed



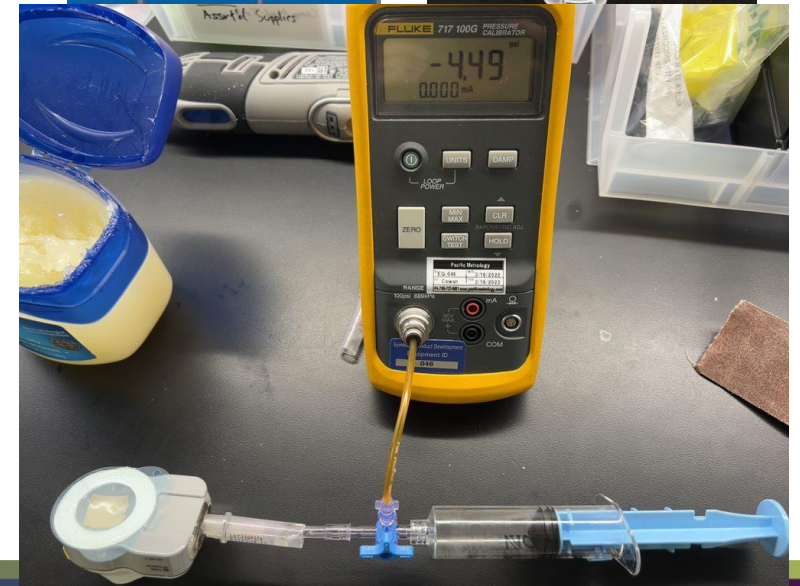
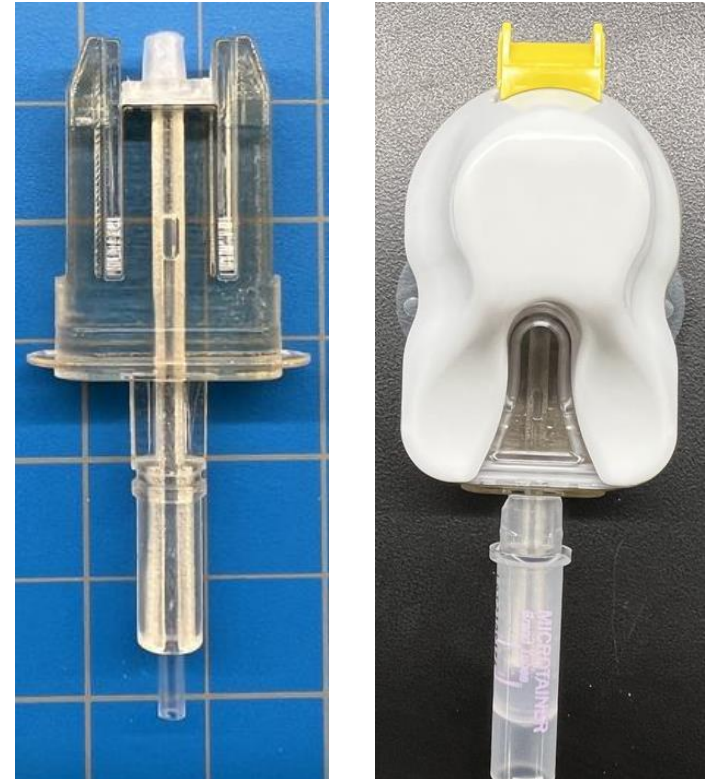
6m



11m (post removal)

# Capillary Tube v3

- ◆ ~.07" ID plastic capillary tube, 100 uL
- ◆ Empties into 500 uL vial, capillary nearly reaches the bottom to promote filling
- ◆ Started screening for non-hermetic seals using syringe and pressure gauge (hold at ~-4psi)

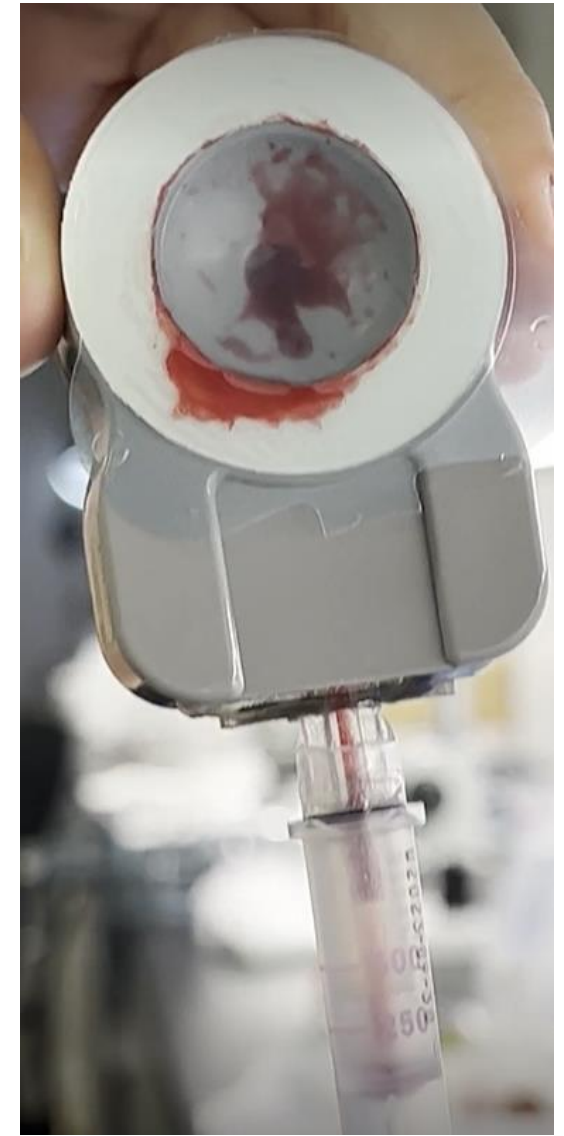


# Capillary Tube v3

- ◆ Blood volume collected: 348 uL
- ◆ Ran test for 10 min, Subject: A.J.
- ◆ Took ~1 min for blood to flow
- ◆ Blood flow was quick and formed a solid column, slowed after ~5 min
- ◆ Flexing arm pulled blood back up into capillary tube/cup (diaphragm)
- ◆ Vacuum held



5m



10m (post removal)

# Capillary Tube v3

- ◆ Blood volume collected: 386  $\mu\text{L}$
- ◆ Ran test for 7 min, Subject: A.P.
- ◆ Took  $\sim 1$  min for blood to flow
- ◆ Blood flow was quick, pockets of air formed within column
- ◆ Blood started to wick back up once vial was full
- ◆ Vacuum held, very little blood in cup (no arm flexing)



5m



7m (post removal)

# Capillary Tube v3

- ◆ Blood volume collected: 410  $\mu$ L
- ◆ Ran test for 11 min, Subject: S.P.
- ◆ Took ~1 min for blood to flow
- ◆ Pockets of air formed within column
- ◆ Blood started to wick back up once vial was full
- ◆ Clot formed at incision, some blood pooled in cup
- ◆ Vacuum held



5m



11m (post removal)