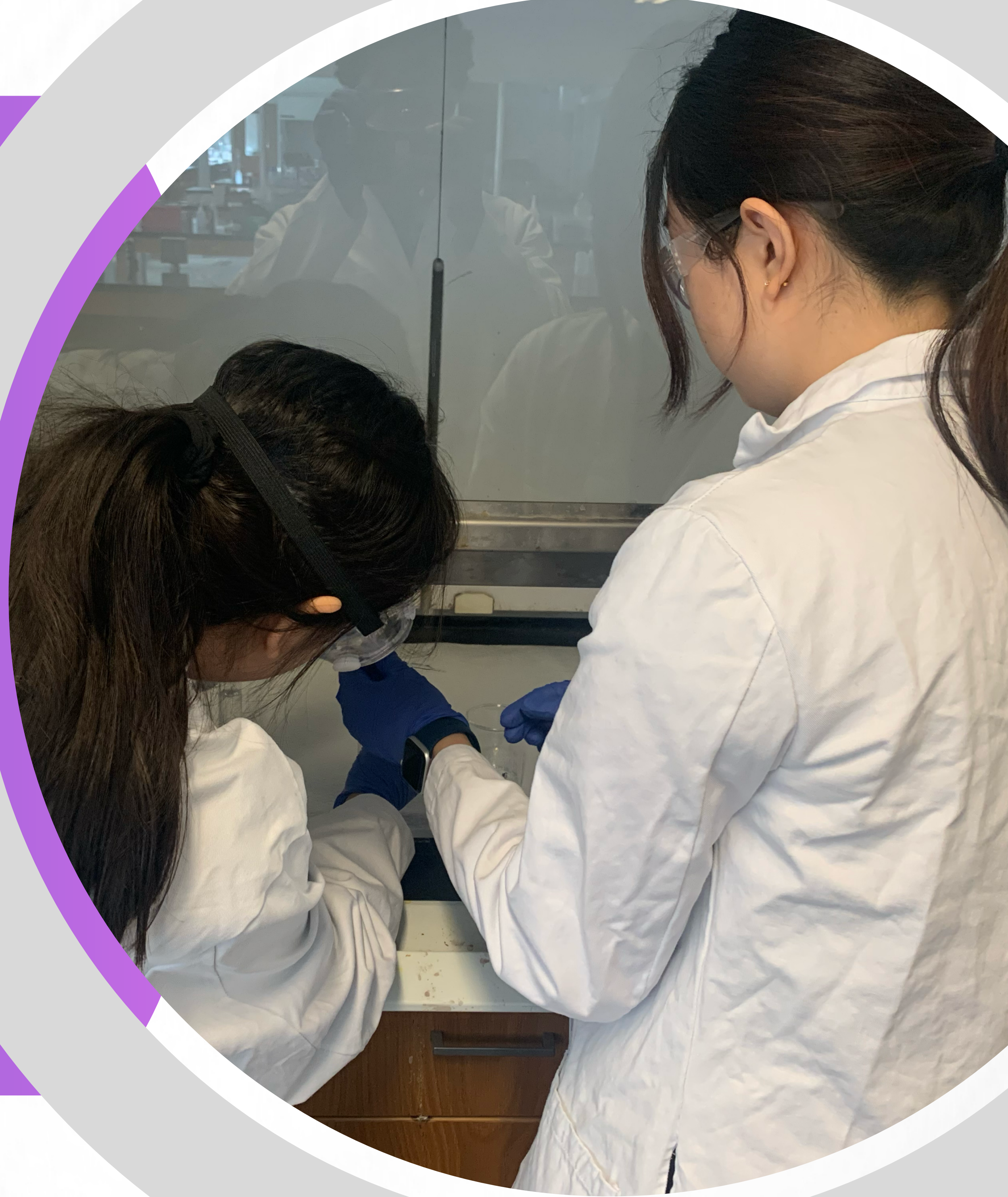


# DIALYSAVERS

**A01:** Brian Bowser, Xavier Manigault, Natalie Que, Serena Sang, Gonzalo Sapriza

## THE PROBLEM

- Over **2 million people** currently receive dialysis to stay alive
- Infections are the **2nd leading cause** of death for dialysis patients
- Peritoneal (at-home) dialysis is associated with an **increased risk** of infection-related hospitalization
- **~20-30%** of dialysis patients develop an infection, and **20-30%** of those infected die from their infection
- Common source of infections: **insertion of catheters**



How might we reduce the **risk of infections** in catheters to **improve the quality of life** for dialysis patients?

## OUR SOLUTION: THE COPPER COATED CATHETER

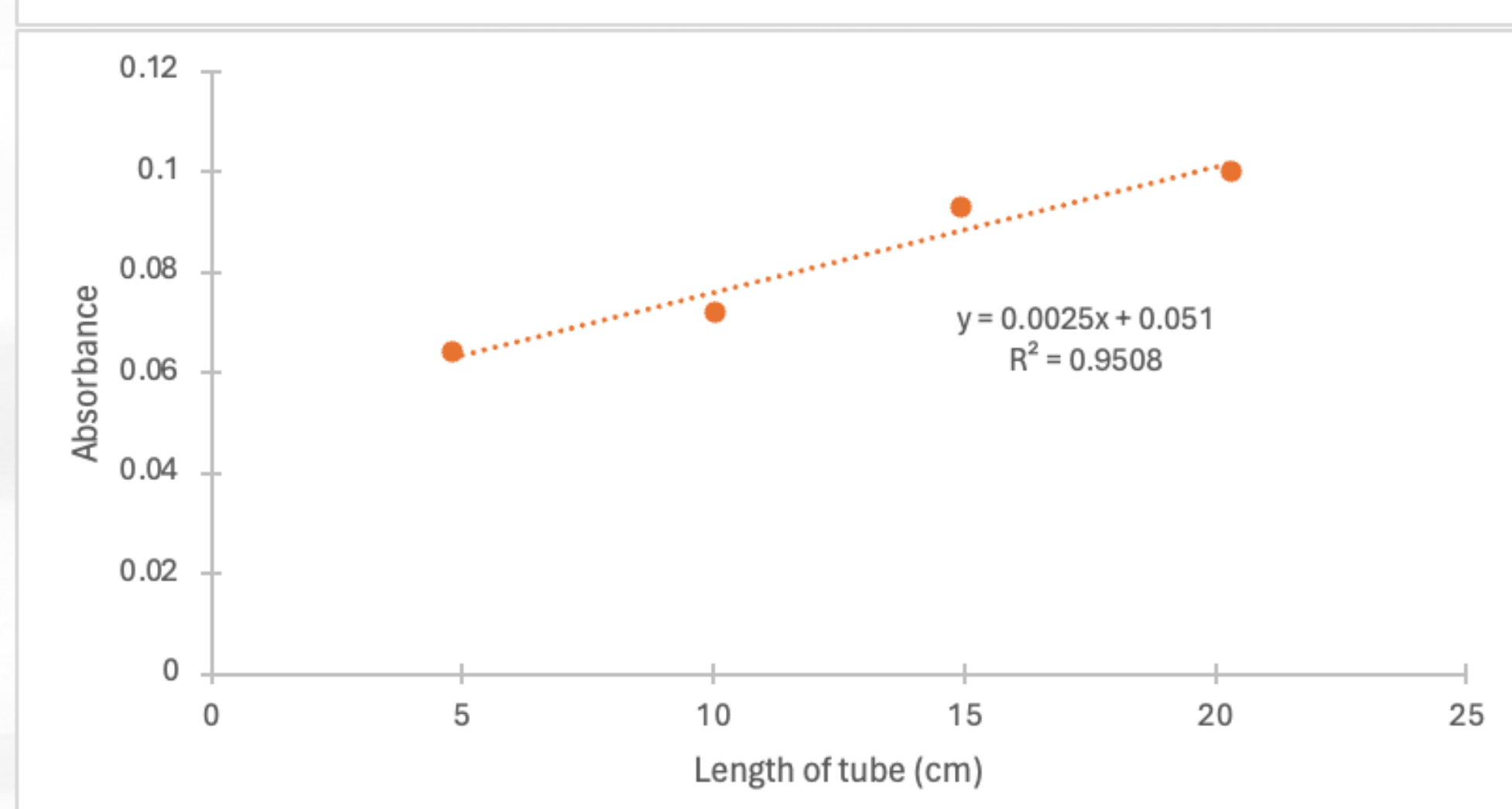
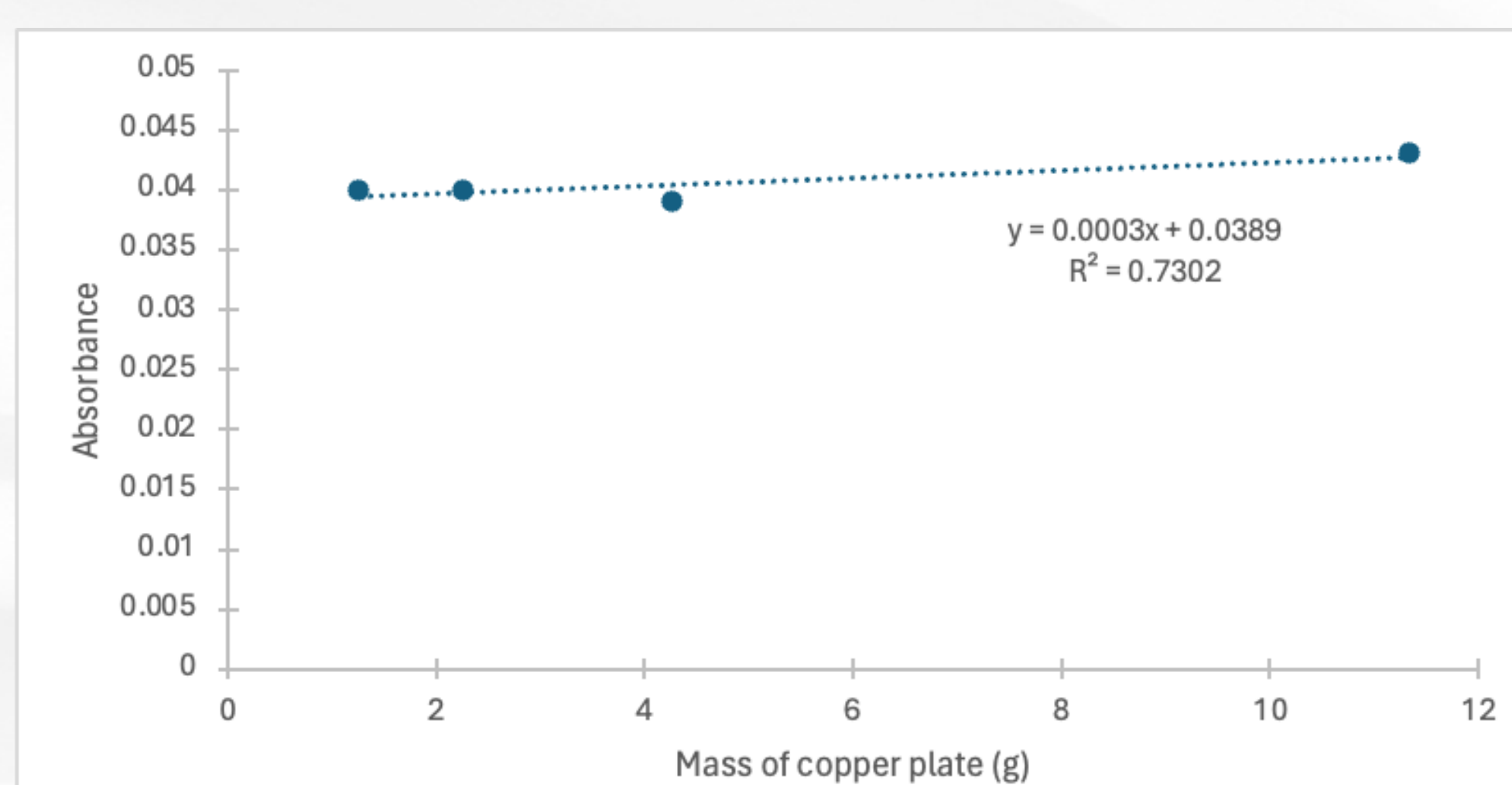
**UVP:** Copper has antimicrobial properties that kill bacteria and viruses upon contact

- Prevents problem from occurring in the 1st place

**Current Competitors:**

- Antimicrobial ointment
- Chlorhexidine-coated catheter caps
- Taurolidine-heparin catheter lock

## OUR EXPERIMENT



### EARLY ADOPTERS

**Emory Northside Dialysis Center:** Connections to doctors through our stakeholder interviews: Dr. John Doran.



### SELF-SUSTAINING

**Saves** \$1000s by preventing infections and 100s of hours by preventing excess surgeries (average: \$25,000) and hemodialysis procedures. **Cost-efficient** as copper plates costs <\$7.



### 2 YEAR PLAN

Determine **effectiveness** of copper. **Prototype** copper catheters. Receive **feedback**. Obtain more **adopters**.