

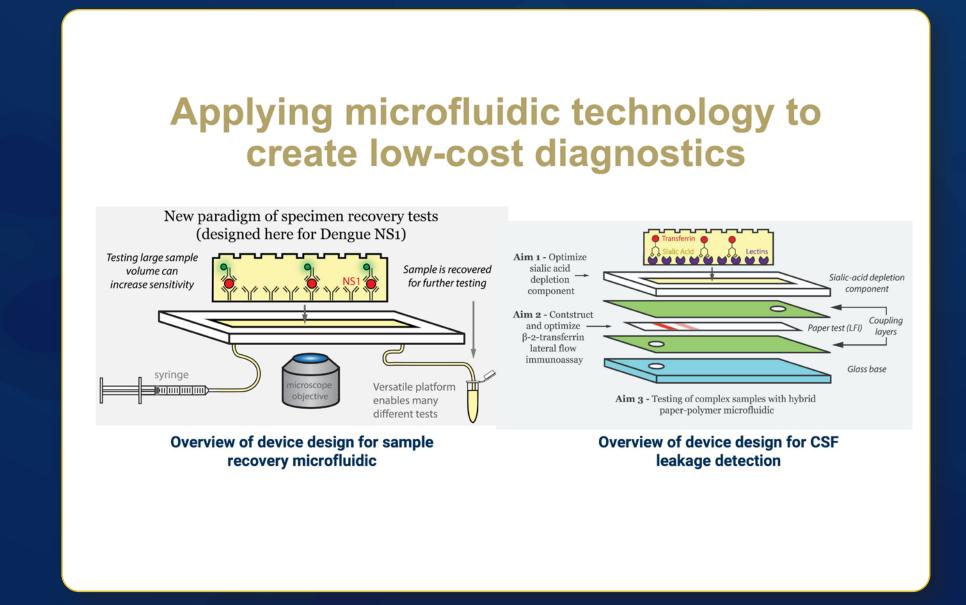
Anjana Dissanayaka

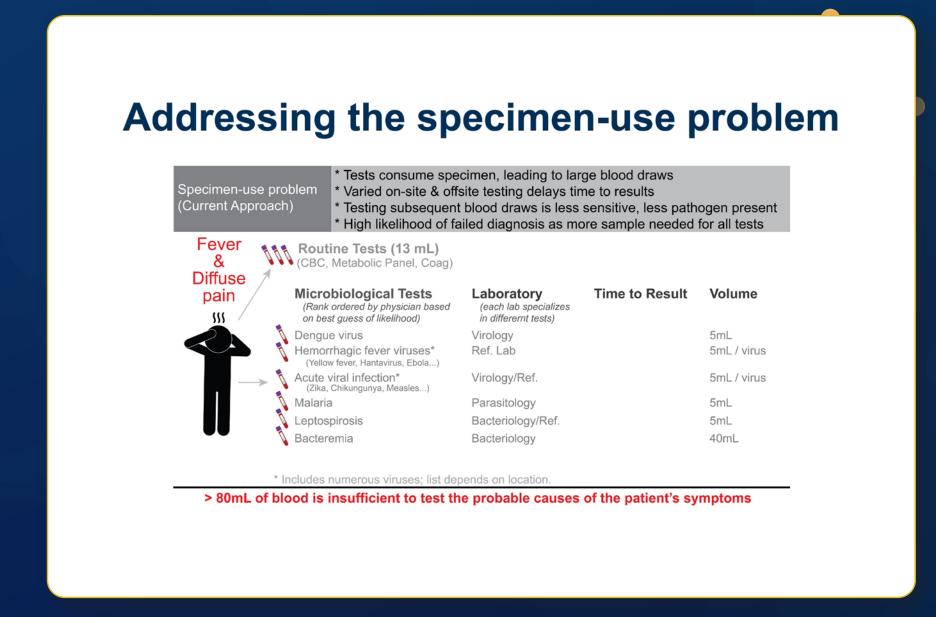
Northside Hospital Award
Ph.D. Student, Biomedical Engineering
Third Year ARCS Scholar



Low-cost diagnostics leveraging microfluidics

Recognizing the clinical need for rapid, low-cost diagnostics for infectious diseases, we leverage microfluidics to develop novel point-of-care tests for diseases such as Dengue Virus.





Sample Recovery Solution Non-destructive testing, reduces samp vol Testing is local with a single instrument Testing is rapid with first blood draw High likelihood of successful diagnosis Routine Tests (13 mL) (CBC, Metabolic Panel, Coag) & Diffuse pain **TUNeS-SR Testing** Re-use unaltered specimen to test for other pathogens Y Positive: Dengue is an ideal first target for specimen for our (further characterization) new paradigm of tests. Serotype / Quantitation / Sequ comprehensive panels Specimen recovery enables fast, comprehensive diagnostics

