SPHERE

THE OHIO STATE UNIVERSITY
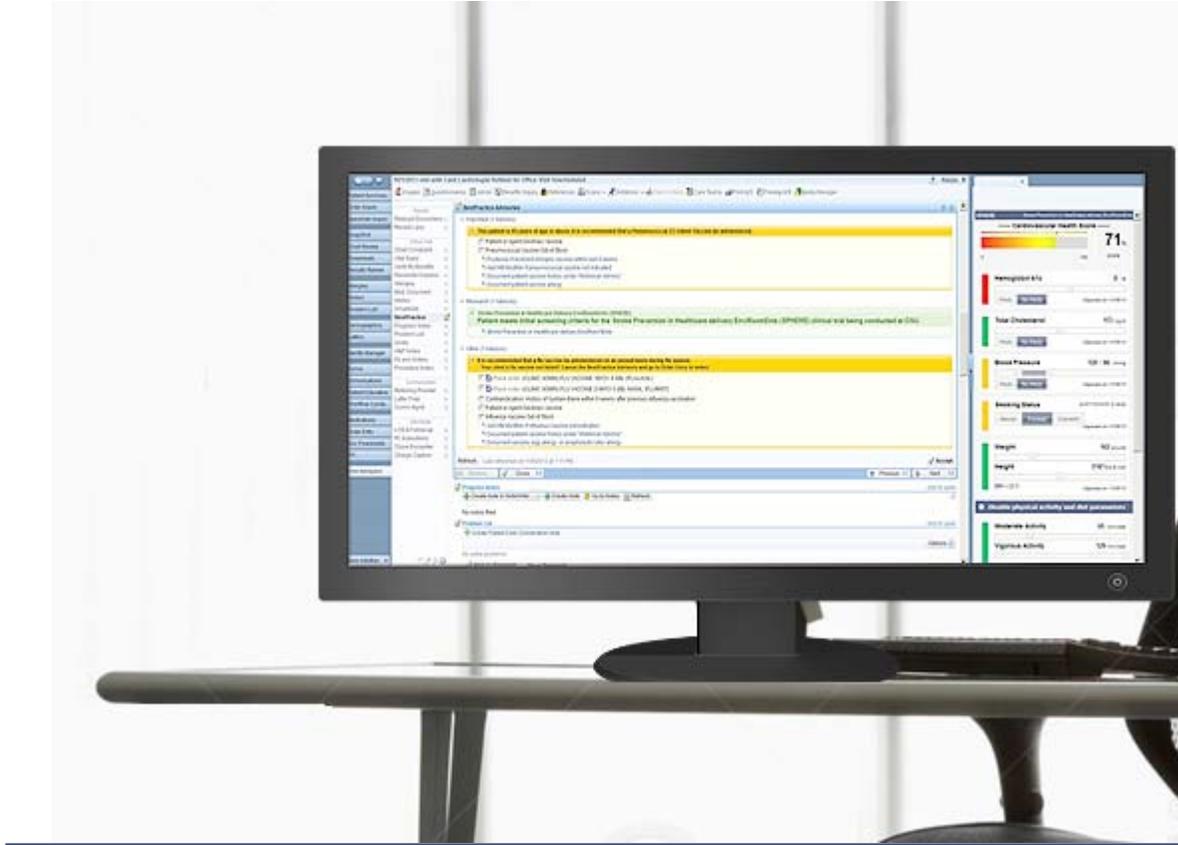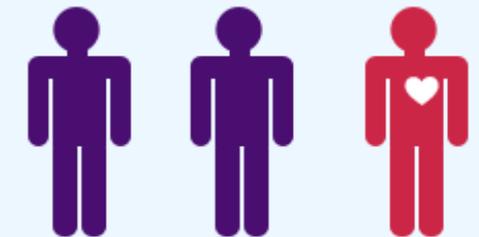
Stroke Prevention in Healthcare Delivery Environments

✧Only **1%** of the US population has ideal cardiovascular health

✧Modifiable behaviors and factors carry the most risk

✧Advancements needed for clinical interventions

  ✧Close the loop between patients and providers

✧SPHERE interfaces with the electronic medical record

  ✧*First of its kind* in the clinical setting

1 in 3 deaths in the United States is due to heart disease

✧Visualization tool at the point-of-care

✧Functions within electronic medical record

✧Improves communication

✧ Slider bars and buttons

✧Enhances goal-setting

Patient Encounter in IHIS

Triggers

BPA w/Link to Project-Specific Web Application

Invokes

Stored To

Supplies Encounter Data

Clinical Database Collected by EHR

Exported To

Information Warehouse

SPHERE Web Application

Patient-Specific Risk Profile Data Conciliation

Updates on interaction

Materialized As

Request Historic Data

Risk Profiling Algorithm

Delivers

Visualization of Interactive Risk Report @ point-of-care

SPHERE Data Mart

Optional Source of Additional Data

Patient Survey Tools

Foraker RE, Shoben AB, Lopetegui MA, et al. Assessment of *Life's Simple 7™* in the primary care setting: The Stroke Prevention in Healthcare Delivery EnviRonmEnts (SPHERE) study. Contemp Clin Trials. 2014;38(2):182-9.
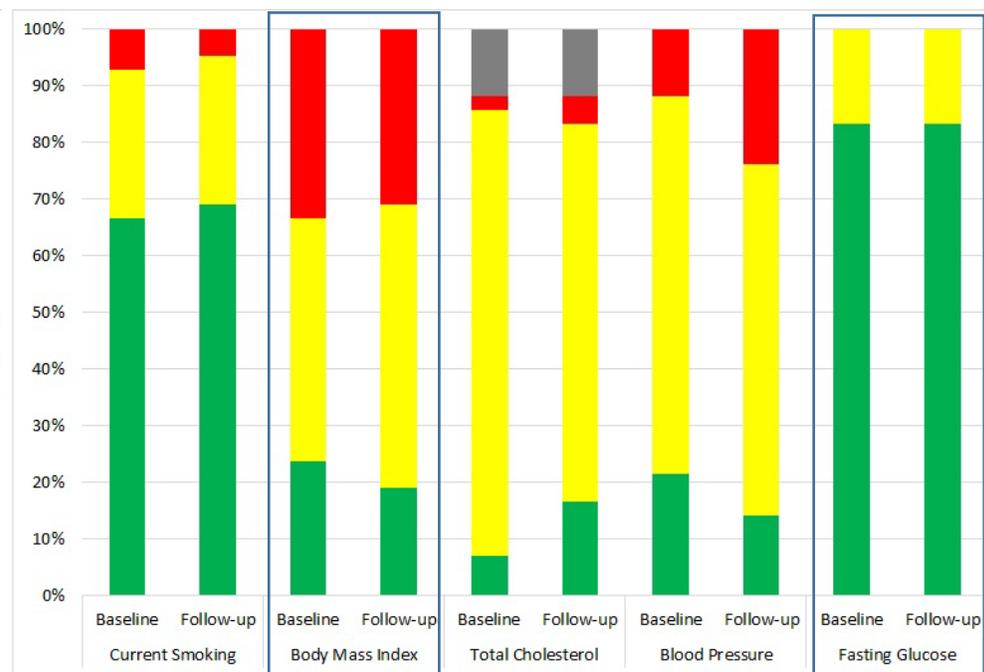
✧Average age was 74 years (eligible patients ≥ 65)

✧Intervention clinic was 35% black (control clinic 19% black)

✧Improvements seen in the intervention clinic – but not control clinic – for *diabetes* and *body mass index*

One-year changes in CVH: Intervention clinic (n=160)
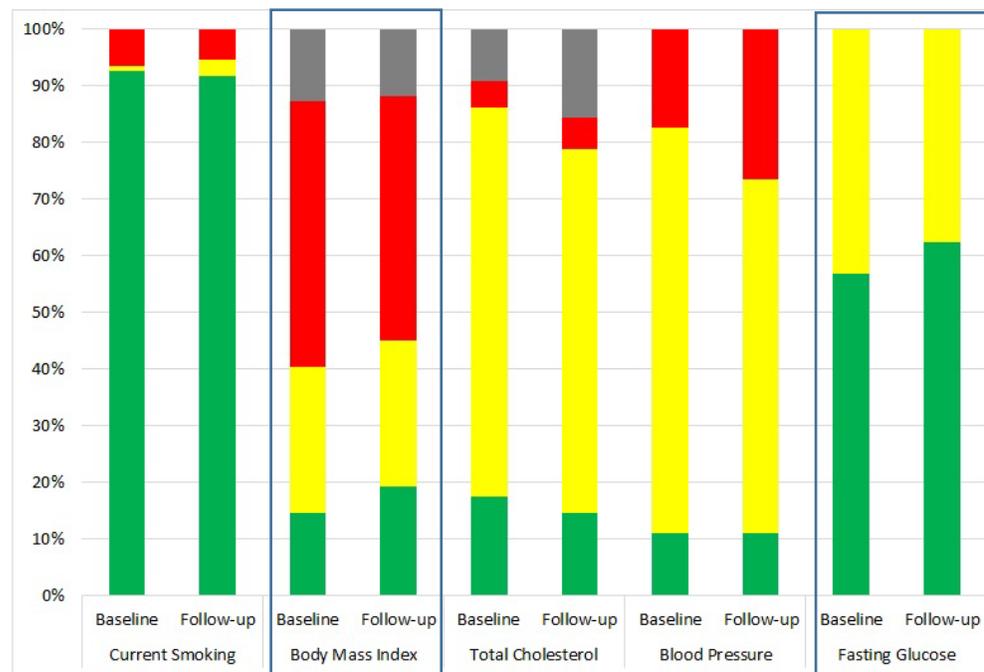
One-year changes in CVH: Control clinic (n=109)