Analytic Framework: Clinical Decision-Support Systems (CDSS) for CVD Prevention

**Clinical Decision-Support Systems**

- **CDSS Input** = individual patient data + guidelines + knowledge resource

**Healthcare Providers**

- Increased CDSS-recommended screening and other preventive services ordered/completed

- Key Effect Modifiers
  - Type(s) of decision support
  - Source
  - Content
  - Delivery format and mode

**Improved knowledge about patient CVD risk status**

- **Key Effect Modifiers**
  - Integration with care flow
  - Interface
  - Communication content
  - Patient involvement
  - Performance feedback
  - Provider education

**Improved Patient Experience**

- **Additional benefit:** Integration with care for comorbidities

**Improved patient health behavior**

- Smoking
- Diet
- Physical Activity
- Medication Adherence

**Reduced CVD risk factors**

- Blood pressure
- Lipids
- Diabetes

**Reduced CVD morbidity**

- Events
- Hospitalizations

**Improved Quality of Life**

**Reduced CVD mortality**

**Intervention**

**Health Outcomes**

**Intermediate Outcomes**

**Target Population**

**Causal Relationship**

**Feedback Loop**

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