Title Slide: Multilevel Factors Impacting Quality: Examples from the Cancer Care Continuum

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Slide 2: Problem/Approach

- The cancer care continuum represents several types of care, each with multiple technical steps and interfaces requiring communication
- We use two case scenarios to illustrate the variability, diversity, and interaction of factors from multiple levels that impact quality of care
- Using hypothetical examples, we illustrate intervention strategies at different levels which are hypothesized to produce complementary/synergistic effects to improve outcomes

Slide 3: Case #1: Screening in the Elderly

- Ms. Smith, 66 years, widow, worked for 40 years in assembly line
- She is using her free time to pursue an active social life and visiting her daughters
- Did not often see physicians because of limited insurance; she is generally healthy
- She has not been screened for colorectal cancer or breast cancer, and has not been screened for cervical cancer in 25 years

Slide 4: Screening Case Levels

- State Health Policy
  - Special programs
- Organization
  - Outreach education
Outreach reminder system
- Provider Team
  - Physician incentives
- Individual
  - Health and functional status
  - Knowledge/attitudes

Slide 5: Case #2: Cancer Treatment and Transition to Survivorship

- Zoe, 42 years, dx with breast cancer on first screening mammogram 18 mo. ago, stage II with axillary node involvement; surgery, radiation, and chemo
- Numerous symptoms persist: fatigue, weight gain, pervasive anxiety
- Wants to return to work but having difficulty because of symptoms; senses her family feels she should “get on with her life”
- Not seen primary MD since dx

Slide 6: Treatment Case Levels

- State Health Policy
  - Insurance mandates
- Organization
  - Quality of electronic medical record
  - Care plan standard
- Provider
  - Provider team functioning
  - Use of medical record
- Family/Social Support
  - Family understanding/communication
  - Knowledge/attitudes

Slide 7: Potential Intervention Strategies – Screening – Case 1

[Flowchart]
There are two inputs to the flowchart.
Slide 8: Potential Intervention Strategies – Survivorship – Case 2

Accumulation intervention strategies are those interventions at multiple levels which produce a cumulative impact on a common mediating pathway. A cascade strategy is one which affects the desired outcome in and through one or more interventions at other levels of influence.

There are 3 intervention inputs going into the "Hospital Team Readiness (mediator)" diamond. They are:

- Standard Tx Summary, Survivorship Plan (Policy)
- Designated Staff Assignment (Organization)
  - MD, RN champion
  - Patient educator and navigator
- All Staff Orientation (Provider)

"Hospital Team readiness" goes into "Patient Education Post-Tx Session (patient) [intervention]". "Primary Care Partnership Orientation (Community) [intervention]" also goes into "Patient Education Post-Tx Session (patient)".

"Patient Education Post-Tx Session (patient) [intervention]" goes into "Knowledgeable, empowered Self-efficacious Patient [mediator]. "On-Call Navigation by Patient Education (Patient) also goes into "Knowledgeable, empowered Self-efficacious Patient [mediator].

The result is 'Coordinated Survivorship Care".
Slide 9: Discussion Questions

- Consider the process of identifying the potential multilevel determinants of care quality
  - Do we have models to guide the prioritization of strategies at various levels to produce specified outcomes in need of improvement?
  - What problems within each type of care should be research priorities?