Syndemic Thinking

What makes a syndemic?

• CLUSTERS:

• Two or more diseases cluster within a population

• INTERACTIONS:

• Biological, psychological, or social interactions exist between these clustering diseases

• DRIVERS:

• Structural and social factors precipitate this clustering of diseases



Figure: Model of a syndemic

SYNDEMICS...

- Are local
- Not global
- Change from place to place
- Change through time

Research Priorities: Syndemic Interactions

- Syndemic pathways that produce co-occurrence with HIV
- Biological, social, structural, behavioral, psychological (*examples*)
 - Aging with ART produces co-occurrence with T2DM
 - Internalized stigma leading to depression and non-engagement in clinical care
 - IPV impeding care-seeking for multiple conditions, including HIV
 - International donors prioritizing HIV while ignoring primary health care
- PATHWAYS, MODERATORS, MEDIATORS
- Interactions that produce adverse outcomes of HIV and/or the cooccurring conditions



- Ethnographic study of local social, psychological, and medical problems
- Building tools for local contexts from ethnographic/qualitative data
- Bring in key stakeholders for every step of the research
- Launching epidemiological study of syndemic clusters
- Developing quantitative methodologies to understand and interpret the interactions and pathways between syndemic drivers, clusters, and outcomes
- Testing complexity of syndemic clusters via ethnographic or qualitative methods
- Refinement of hypotheses to test interventions