



Why Microbicides Will Be Effective

- **Macro level: epi; social context; MTCT**
- **Micro level:**
 - **Sexual transmission of HIV is inefficient**
 - **Don't need to inhibit every virus**
 - **Reduce below infectious threshold**
 - **Protection in monkey model**
- **Predicated on getting the **RIGHT** drug at the **RIGHT** levels in the **RIGHT** place at the **RIGHT** time**



Likelihood of being **RIGHT**

■ Right Drugs and Right Levels

- Highly potent ARVs acting early in HIV lifecycle (e.g. Dapivirine, Tenofovir, CCR5-blockers, fusion inhibitors, etc.)
- Combinations

■ Right Place and Right Time

- Formulations to keep drug(s) in lumen and/or tissue when appropriate
- Long acting sustained release (e.g. once daily gels; once monthly rings)