CLEARING GUT INFECTIONS
Treating infections of the gastrointestinal tract has been one of the most successful uses of phage therapy since its inception. Although antibiotics are the go-to treatment today, concerns about increasing drug resistance and disrupting the microbiome have led researchers to reconsider using bacteria-killing viruses instead.

1. ANTIBIOTICS

- Antibiotics can cause long-lasting changes to the microbiome.
- Drug-resistant bacteria may emerge with overuse.

2. PHAGE THERAPY

- Low risk of pathogenic bacteria evolving resistance because phages have co-evolved with bacteria to counter their defenses.
- Microbiome is unaffected.
- Bacteriophage infection
  - Genomic injection
  - Bacterial lysis
  - Viral replication