

The diagram illustrates the experimental timeline for two groups of mice. The top timeline, for the Cefoperazone or Streptomycin group, shows antibiotic treatment from Day -7 to Day -2, followed by a 16-hour gap, then *C. difficile* spore gavage at Day 0 and euthanasia/necropsy at 18 hours. The bottom timeline, for the Clindamycin group, shows antibiotic treatment from Day -1 to Day 0, followed by a 16-hour gap, then *C. difficile* spore gavage at Day 0 and euthanasia/necropsy at 18 hours. A legend defines the symbols: a purple bar for antibiotic in drinking water, a green triangle for IP injection of antibiotic, an open triangle for *C. difficile* spore gavage, and a black triangle for euthanasia and necropsy.

Experimental Timeline:

- Top Timeline (Cefoperazone or Streptomycin):**
 - Day -7 to Day -2: Antibiotic in Drinking Water (Purple bar)
 - Day 0: *C. difficile* Spore Gavage (Open triangle)
 - 18 hrs: Euthanize & Necropsy (Black triangle)
- Bottom Timeline (Clindamycin):**
 - Day -1 to Day 0: Antibiotic in Drinking Water (Purple bar)
 - Day 0: *C. difficile* Spore Gavage (Open triangle)
 - 18 hrs: Euthanize & Necropsy (Black triangle)

Legend:

- Antibiotic in Drinking Water (Purple bar)
- IP Injection of Antibiotic (Green triangle)
- C. difficile* Spore Gavage (Open triangle)
- Euthanize & Necropsy (Black triangle)

