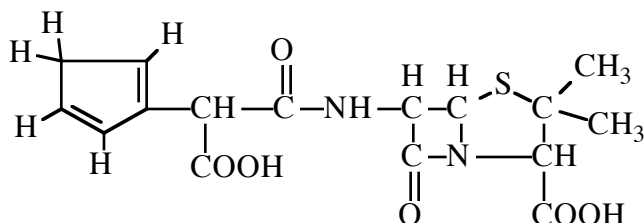


Medch 401 First Exam

April 9, 2007

Note: For questions asking for drug selection, use UW formulary beta lactams only

1. (24 points) Compound I below is an experimental antimicrobial for oral and IV use. From the structure, what would you speculate as to the appropriateness of this drug for the following patients. Carefully explain your reasoning.



- A patient with a *Staphylococcus aureus* (not MRSA) wound infection.
- A patient with *Streptococcus pyogenes* necrotizing fasciitis.
- A patient with *Neisseria meningitidis* meningitis
- A patient with *Moraxella catarrhalis* sinusitis
- A patient with *Enterococcus faecium* sepsis
- Describe specifically the lethal mechanism of action of this drug on *Escherichia coli*

