Bacterial culture and sensitivity testing

Are antimicrobials indicated?
- Is the condition caused by bacteria?
- Is the host immune response insufficient?
- Will antimicrobials improve outcome?

No antimicrobial treatment

Are there reasons to suggest that FIRST LINE therapy is not indicated?

FIRST LINE THERAPY

Resolution
- Complete planned course then discontinue

Persistent Disease

Bacterial culture and sensitivity testing

Resolution
- Complete planned course then discontinue

Persistent Disease

Consider alternative drug category pending culture and sensitivity testing. Pathogen sensitive to other FIRST LINE or ALTERNATIVE?

Yes
- Consider PROTECTED antimicrobial
  - Treat as appropriate
  - Only if sensitive

No
- AVOIDED ANTIMICROBIALS
  - Chloramphenicol (other than Ocular)
  - Imipenem
  - Vancomycin

PROTECTED ANTIMICROBIALS ARE
- The quinolones (e.g. Enrofloxacin)
- The 3rd & 4th Generation cephalosporins (e.g. Ceftiofur and Cefquinome)

PROTECTED SHOULD ONLY BE USED WHERE
- In-vitro bacterial sensitivity testing show the antibiotics to be effective against isolated pathogen
- No first line antimicrobials have in-vitro sensitivity UNLESS these have been used without clinical improvement
- Use of all PROTECTED antimicrobials must be recorded