Once an ESBL + urine culture has been obtained, determine: Are there signs and symptoms of infection present?*

Yes

Does patient meet criteria for meropenem therapy?**

Yes

Meropenem
500 mg IV q6h

No

No treat asymptomatic bacteriuria unless pregnant or undergoing urologic procedure

No

Cystitis
Once cultures have confirmed ESBL, choose one of the following antibiotics based off of sensitivities

Nitrofurantoin
50 mg PO q6h
Avoid if CrCl <60

TMP-SMX
1 DS tab PO BID

Fosfomycin***
3g PO x1 (q48hrs x3 doses if complicated)

Levofloxacin
250 mg IV/PO daily

Pyelonephritis
Once cultures have confirmed ESBL, choose one of the following antibiotics based off of sensitivities

Levofloxacin
750 mg IV/PO daily

Gentamicin per Pharmacy
1.5 mg/kg/dose IV q8h OR 5mg/ke IV daily

Piperacillin/tazobactam
4.5gm IV LD, 3.75gm IV q8h
Avoid if MIC >4

Levofloxacin
250 mg IV/PO daily

Durations for ESBL + urinary tract infections are not extended compared to non-ESBL infections. Click here to see approved durations table.

*Click link above to see additional information on asymptomatic bacteriuria

**Refer to appendix for meropenem use criteria

***Sensitivities will not be available in cultures. Click link above to see fosfomycin usage requirements/recommendations
Appendix

** Meropenem Use Criteria

1) Urosepsis
2) Culture resistant to all other antibiotics
3) Other sensitive antibiotics are not appropriate (allergies, renal dysfunction, etc.)
4) Patient’s status declines or does not improve within 48hrs on alternative antimicrobial therapy.

References: