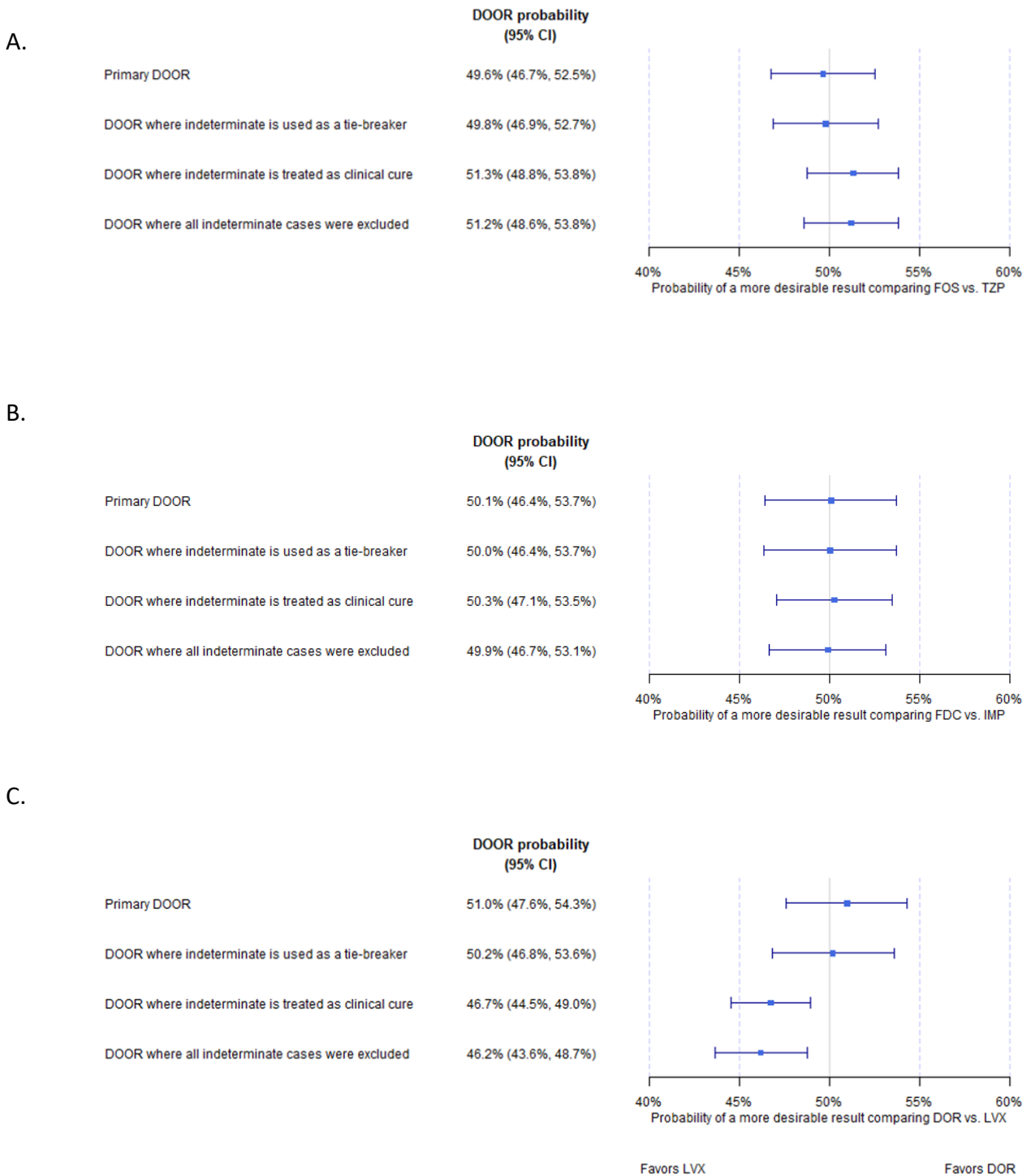
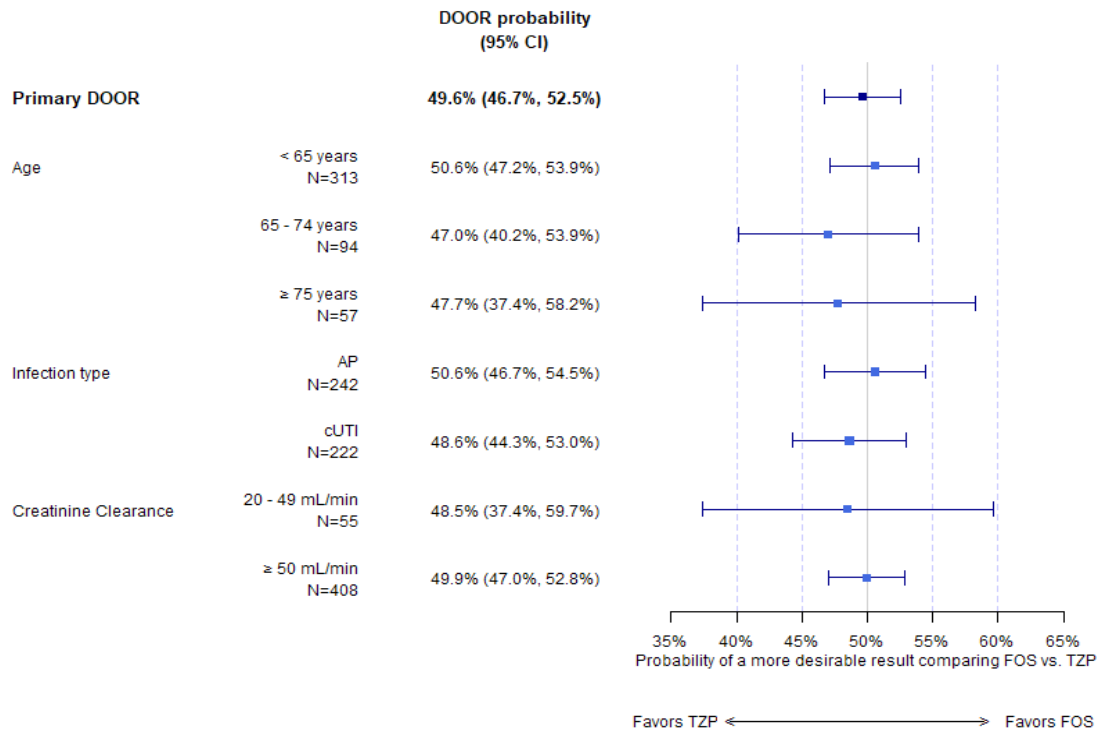


Supplemental Material



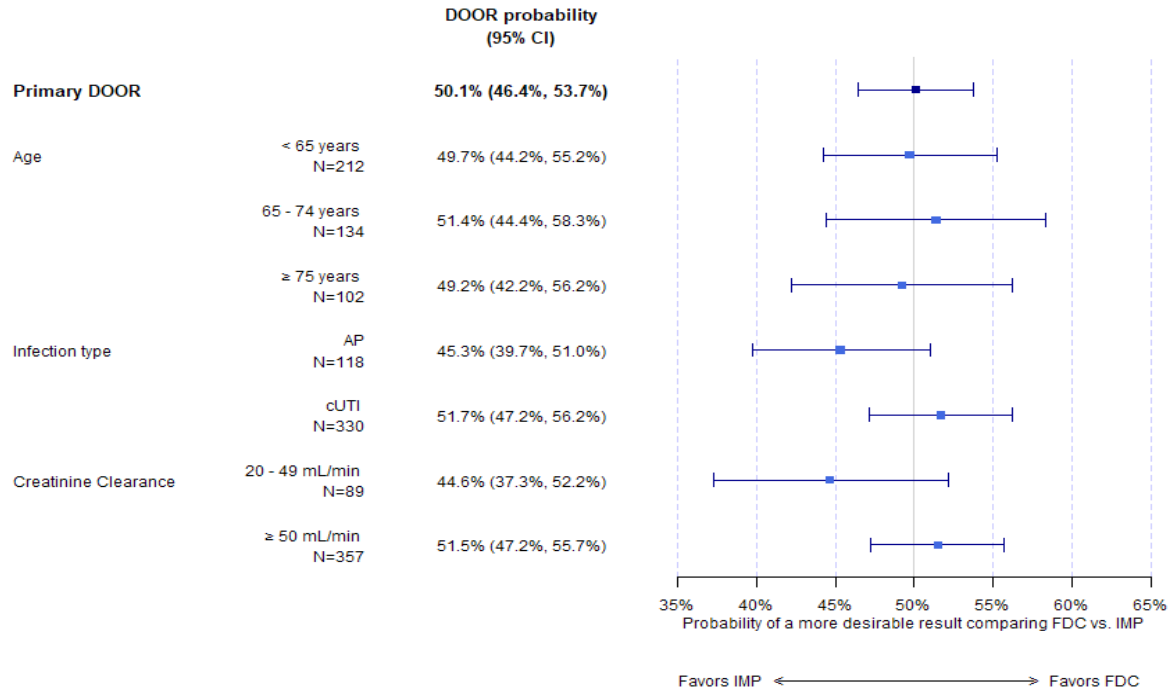
Supplemental Figure 1: Estimated desirability of outcome ranking (DOOR) probabilities and associated 95% confidence intervals for sensitivity analyses where we modified how patients with indeterminate or missing clinical outcomes were categorized in the DOOR analysis (A. ZEUS; B. APEKS-cUTI; C. DORI-05).

Abbreviations: CI, confidence interval; DOR, doripenem; FDC, cefiderocol; FOS, fosfomycin; IMP, imipenem-cilastatin; LVX, levofloxacin; TZP, piperacillin-tazobactam



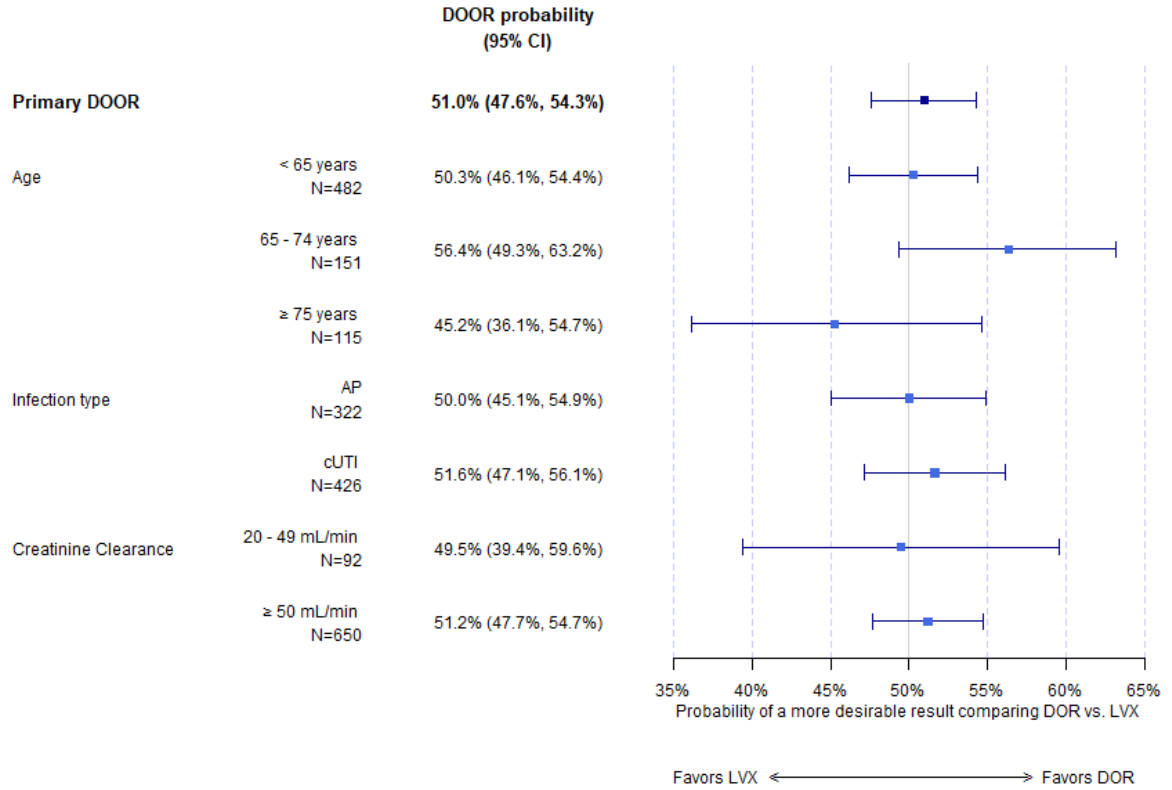
Supplemental Figure 2: Estimated desirability of outcome ranking (DOOR) probabilities and associated 95% confidence intervals for all subgroup analyses (age, infection type and creatinine clearance) for ZEUS trial

Abbreviations: AP, acute pyelonephritis; CI, confidence interval; cUTI, complicated urinary tract infection; FOS, fosfomycin; TZP, piperacillin-tazobactam



Supplemental Figure 3: Estimated desirability of outcome ranking (DOOR) probabilities and associated 95% confidence intervals for all subgroup analyses (age, infection type and creatinine clearance) for APEKS-cUTI trial

Abbreviations: AP, acute pyelonephritis; CI, confidence interval; cUTI, complicated urinary tract infection; FDC, cefiderocol; IMP, imipenem



Supplemental Figure 4: Estimated desirability of outcome ranking (DOOR) probabilities and associated 95% confidence intervals for all subgroup analyses (age, infection type and creatinine clearance) for DORI-05.

Abbreviations: AP, acute pyelonephritis; CI, confidence interval; cUTI, complicated urinary tract infection; DOR, doripenem; LVX, levofloxacin

Supplemental Table 1: Summary of DOOR Components

	ZEUS		APEKS-cUTI		DORI-05	
	FOS (n=233)	TZP (n=231)	FDC (n=300)	IMP (n=148)	DOR (n=374)	LVX (n=374)
Clinical Assessment at TOC						
Cure	211 (91)	212 (92)	261 (87)	130 (88)	293 (78)	261 (70)
Failure ^a	11 (5)	16 (7)	17 (6)	8 (5)	16 (4)	13 (3)
Indeterminate ^a	11 (5)	3 (1)	22 (7)	10 (7)	1 (<1)	2 (<1)
Missing ^{a,b}					64 (17)	98 (26)
Infectious Complications^c						
Renal or intra-abdominal abscess	0 (0)	2 (<1)	1 (<1)	0 (0)	2 (<1) ^d	0 (0)
Bacteremia	0 (0)	1 (<1) ^e	0 (0)	0 (0)	0 (0)	0 (0)
Recurrent UTI/pyelonephritis ^f	3 (1)	2 (<1)	1 (1)	2 (1) ^g	21 (6) ^h	5 (1)
<i>Clostridioides difficile</i>	0 (0)	1 (<1)	1 (<1)	5 (3)	1 (<1)	0(0)
Epididymo-orchitis	1 (<1)	0 (0)	0 (0)	0 (0)	1 (<1)	0 (0)
Prostatic abscess	1 (<1)	0 (0)	0 (0)	1 (<1)	0 (0)	0 (0)
≥1 SAE	5 (2)	6 (3)	15 (5)	11 (7)	25 (7)	14 (4)
Death	0 (0)	0 (0)	1 (<1)	0 (0)	1 (<1)	0 (0)

Displayed as n (%) unless otherwise stated

- a. Included in the primary DOOR analysis as “absence of clinical response”
- b. Includes assessments that were completed outside the prespecified test of cure visit time frame
- c. A patient can have more than one infectious complication; however even if a patient has more than one infectious complication they are still counted as having one DOOR event (i.e. an “infectious complication”)
- d. One of these events was coded as “intra-abdominal infection” and ARLG physician reviewers agreed this should count in the intra-abdominal abscess category
- e. This patient was coded as having a renal abscess and septicemia
- f. Occurred after test of cure
- g. One of the adverse events was coded as “percutaneous nephrostomy tube infection” which the ARLG physician reviewers agreed should count as recurrent UTI/pyelonephritis
- h. Two events were coded as “urosepsis” which the ARLG physician reviewers agreed should count as recurrent UTI/pyelonephritis. Information about whether these patients had associated bacteremia was not available.

Abbreviations: DOR, doripenem; FDC, cefiderocol; FOS, fosfomycin; IMP, imipenem-cilastatin; LVX, levofloxacin; SAE, serious adverse event; TOC, test of cure; TZP, piperacillin-tazobactam; UTI, urinary tract infection