Supplementary information

Table 1. Antibiotics under phase III and phase II clinical investigation for alternativeindications that show anti-staphylococcal activity. Antibiotics are described by company,drug class, route of administration, indication and trial number. CDAD, Clostridium difficile-associated diarrhoea; CDI, C. difficile infections; uUTI, uncomplicated urinary tract infections;IV, intra-venous; po, Per os (oral administration).*denotes a first in classantibiotic, **denotes a first in class antibiotic with a novel target.

Antibiotic	Company	Drug class Phase III	Route of administration	Indication	Trial number				
Gepotidacin	GSK	Triazaacenaphthylene type II topoisomerase inhibitor*	IV, po	uUTI	NCT04010539 NCT04020341 NCT04187144				
Zolidoflacin	Entasis Therapeutics	Spiropyrimidinetrione*	ро	Uncomplicated gonococcal infections	NCT03959527				
Phase II									
MGB-BP-3	MGB Biopharma	Distamycin**	ро	CDAD	NCT03824795				
DNV3837	DEINOVE	Oxazolidinone-quinolone hybrid	IV	CDI	NCT03988855				
CRS3123	Crestone Inc.	Diaryldiamine**	ро	CDI	NCT04781387				

Table 2. Antibiotics in phase I clinical trials. Antibiotics are described by company, drug class, route of administration, indication/s and trial number. Previous developmental names are indicated in brackets. ABSSSI, acute bacterial skin and skin structure infections; BSI, bloodstream infections; CABP, community acquired bacterial pneumonia; IV, intra-venous; po, Per os (oral administration); PJI, prosthetic joint infections. *denotes a first in class antibiotic **denotes a first in class antibiotic with a novel target.

Antibiotic	Company	Drug class	Route of administration	Indication	Trial number
PLG0206 Wap-8294A2	Peptilogics	Antimicrobial peptide	IV	PJI	NCT05137314
(Lotilibcin)	aRigen	Cyclic depsipeptide*	IV, topical	ABSSSI, acne vulgaris	
TXA709	TAXIS Pharmaceuticals	FtsZ benzamide**	ро	MRSA infections	NCTO2F0C200
DSTA4637S	Genentech	mAb rifamycin conjugate*	IV	BSI	NCT02596399 NCT03162250
Zifanocycline (KBP-7072)	KBP BioSciences	Tetracycline	ро	САВР	<u>NCT02454361</u> NCT04532957
TP-271	Tetraphase	Tetracycline	ро	САВР	NCT03234738
BCM-0184	biocidium pharmaceuticals	Undisclosed	po, topical	MRSA infections	
RECCE327	Recce pharmaceuticals	Undisclosed	IV, topical	MRSA burn wound, BSI	