

## *Supplementary Material*

The WHO Priority Pathogens List for the development of novel antibiotics.

Organism	Type	Route of exposure	Antibiotics	Resistance	Multi virulent?	Virulence	Priority
<i>C. difficile</i>	Bacillus + anaerobic	Nosocomial	Metronidazole, vancomycin	Low	Yes	Virulent	High
<i>S. aureus</i>	Coccus + anaerobes	Human contact	Methicillin-resistant, vancomycin intermediate and resistant	Medium	Yes	Dangerous	High
<i>N. gonorrhoeae</i>	Diplococci + aerobic	Sexually transmitted	3 <sup>rd</sup> generation cephalosporin-resistant, fluoroquinolone-resistant	Medium	Yes	Worrying	High
<i>M. tuberculosis</i>	Bacillus not classified as aerobic or anaerobic	Air-borne	Rifampicin, Isoniazid	Medium	Yes	Virulent	High
<i>A. baumannii</i>	Coccobacillus + aerobic	Medical facilities/ nosocomial fomites	Carbapenem-resistant, tigecycline,	High	Yes	Worrying	Critical
<i>E. coli</i>	Bacillus + facultative anaerobe	Needle injury/ mucosal exposure of the eye/ aerosol inhalation	Carbapenem-resistant, 3 <sup>rd</sup> generation cephalosporin-resistant	High	Yes	Worrying	Critical
<i>K. pneumoniae</i>	Bacillus + facultative anaerobe	Respiratory tract/ bloodstream	Carbapenem-resistant, 3 <sup>rd</sup> generation cephalosporin-resistant	Medium	Yes	Worrying	Critical
<i>P. aeruginosa</i>	Bacillus + facultative anaerobe	nosocomial	Carbapenem-resistant	Medium	Yes	Worrying	Critical