

	Pathogen biology		Pre-clinical and clinical R&D		
	Natural/cross strain immunity	Knowledge of vaccine targets	Ease of pre-clinical programme	Ease of clinical programme	
Pathogen	<i>Streptococcus pneumoniae</i>	Green	Green	Green	Marketed vaccines
	<i>Haemophilus influenzae</i>	Green	Green	Green	
	<i>Salmonella</i> Typhi	Green	Green	Green	
	<i>Shigella</i> spp.	Yellow	Green	Yellow	
	<i>Salmonella</i> (non-typhoidal)	Yellow	Green	Yellow	
	<i>Escherichia coli</i> (enteric)	Yellow	Green	Yellow	
	<i>Salmonella</i> Paratyphi	Yellow	Green	Yellow	
	<i>Staphylococcus aureus</i>	Yellow	Yellow	Yellow	
	<i>Campylobacter</i> spp.	Yellow	Yellow	Yellow	
	<i>M. tuberculosis</i> (efficacious)	Yellow	Red	Yellow	
	<i>Escherichia coli</i> (urinary)	Red	Yellow	Yellow	
	<i>Neisseria gonorrhoeae</i>	Red	Yellow	Yellow	
	<i>Pseudomonas aeruginosa</i>	Red	Yellow	Yellow	
	<i>Helicobacter pylori</i>	Red	Yellow	Yellow	
	<i>Acinetobacter baumannii</i>	Red	Yellow	Red	
	<i>Klebsiella pneumoniae</i>	Red	Yellow	Red	
	Enterobacteriaceae ¹	Red	Red	Red	
	<i>Enterococcus faecium</i>	Red	Red	Red	

■ High hurdles
 ■ Moderate hurdles
 ■ Low hurdles

Note: Ordered from lowest to highest in terms of hurdles for dimensions listed in columns. Does not include pipeline robustness measure.

The colour-coding reflects the pathogen's categorisation (low, medium or high) on the variables listed in the columns. Red represents significant hurdles to vaccine development, yellow represent moderate hurdles to vaccine development and green represents low hurdles to vaccine development.

1) Entire family excluding *E. coli* and *K. pneumoniae*; Source: Literature research; expert interviews; BCG analysis.