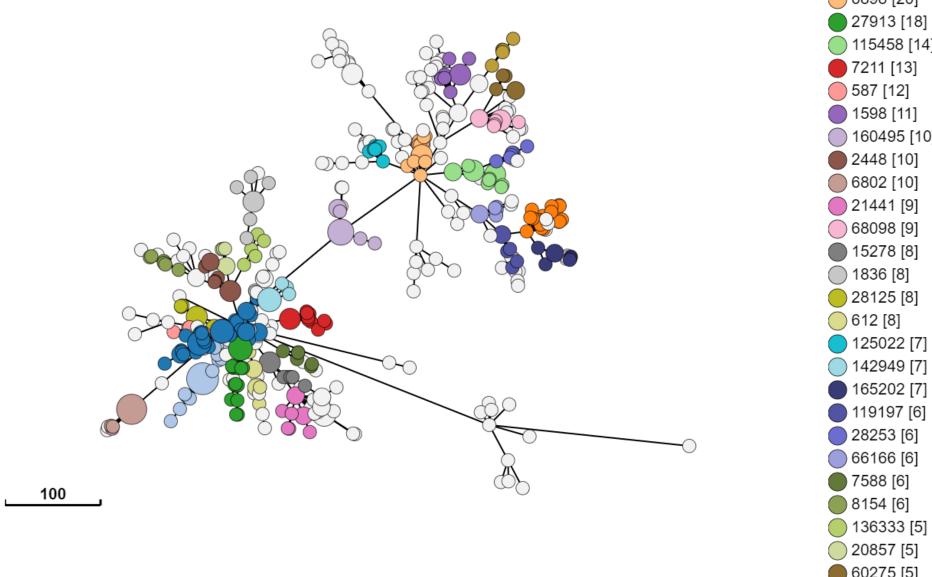


Figure S2A cgMLST MSTree of Paratyphi A – coloured by cgMLST



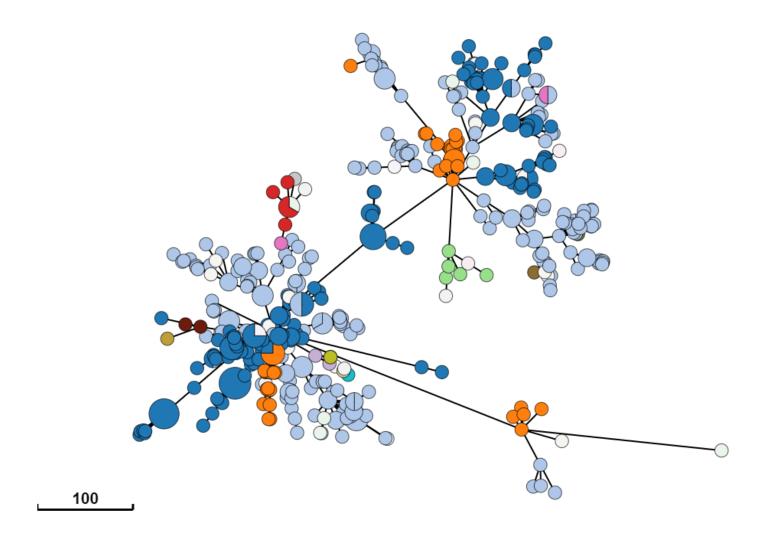
- 20176 [48]
- 28784 [23]
- 7407 [23]
- 6898 [20]
- 27913 [18]
- 115458 [14]
- 7211 [13]
- **1598** [11]
- 160495 [10]

- 21441 [9]

- 125022 [7]
- 142949 [7]
- 165202 [7]
- 119197 [6]
- 28253 [6]

- 60275 [5]
- **7840** [5]
- Others [196]

Figure S2B, cgMLST MSTree of Paratyphi A – coloured by travel in the past 28 days



India [243] Pakistan [170] Bangladesh [49] Unknown [15] No travel [7] ndonesia [5] Myanmar [5] ndia, Nepal [3] Asian continent [2] Cambodia [2] Ghana [2] India, Thailand [2] Thailand [2] Y [2] 🦳 Cambodia, India, Laos, Thailand, Viet Nam [′ Cambodia, India, Nepal, Thailand [1] 🦲 Cambodia, Thailand [1] Cambodia, Thailand, Viet Nam [1] Cambodia, Vietnam [1] Canada [1] 🦳 India, Indonesia [1] 📄 India, Indonesia, Philippines, Sri Lanka, Vietr ndia, Nepal [1] India, Pakistan [1] India, Philippines [1] India, Turkey [1] India, Vietnam [1] Malaysia [1] Nepal [1] Nigeria [1] Others [4]

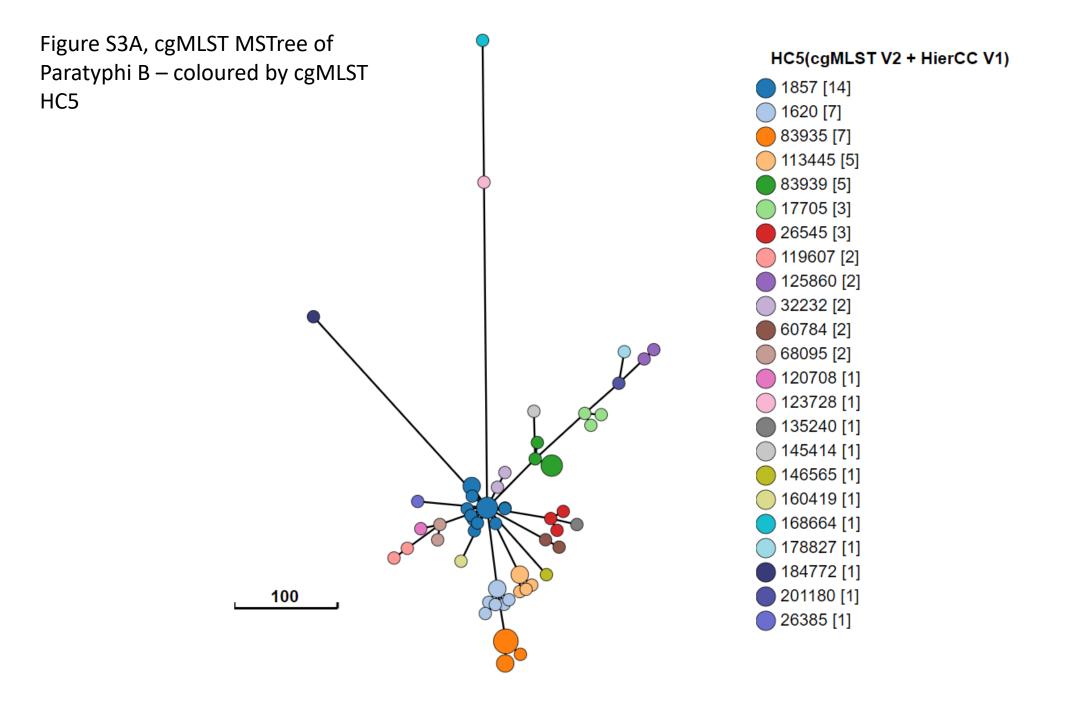
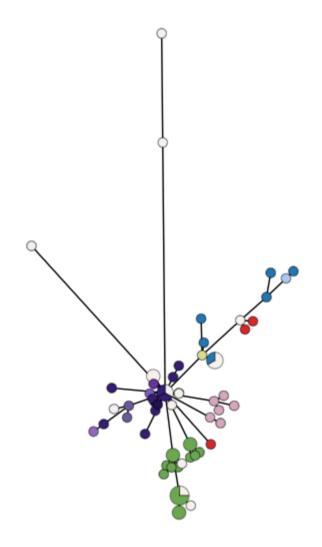


Figure S3A, cgMLST MSTree of Paratyphi B – coloured by travel in the past 28 days



## Travel

- Iraq [16]
- Bolivia [8]
- unknown [8]
- No travel [7]
- Pakistan [6]
- Peru [5]
- Turkey [3]
- Argentina [2]
- Argentina, Bolivia, Brazil, Chile, Uruguay, Vie
- Argentina, Bolivia, Brazil, Colombia, Chile [1]
- Argentina, Peru [1]
- Bolivia, Brazil, Colombia, Peru [1]
- Bolivia, Brazil, Peru [1]
- Bolivia, Chile, Peru [1]
- Brazil [1]
- Colombia [1]
- India [1]
- Pakistan, Saudi Arabia [1]

Legend: Hierarchical Clustering (HierCC) of enteric fever cases in England between 2016-2019. GrapeTree depiction of MSTree tree V2 of cgMLST allelic distances between genomic entries, coloured by different categories: *S.* Typhi HierCC number at the HC5 allelic level (S1A), *S.* Typhi and AMR category (S1B), *S.* Typhi and travel in the past 28 days (S1C), *S.* Paratyphi A and HierCC number at the HC5 allelic level (S2A), *S.* Paratyphi A and travel in the past 28 days (S2B), ), *S.* Paratyphi B and HierCC number at the HC5 allelic level (S3A), *S.* Paratyphi B and travel in the past 28 days (S3B).