

The genomic epidemiology of shigellosis in South Africa

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Shigellosis, a leading cause of diarrhoeal mortality and morbidity globally, predominantly affects children under five years of age living in low- and middle-income countries. While whole genome sequence analysis (WGS) has been effectively used to further our understanding of shigellosis epidemiology, antimicrobial resistance, and transmission, it has been under-utilised in sub-Saharan Africa. In this study, we applied WGS to large sub-sample of surveillance isolates from South Africa, collected from 2011 to 2015, focussing on *Shigella flexneri* 2a and *Shigella sonnei*. We find each serotype is epidemiologically distinct. The four identified *S. flexneri* 2a clusters having distinct geographical distributions, and antimicrobial resistance (AMR) and virulence profiles, while the four sub-Clades of *S. sonnei* varied in virulence plasmid retention. Our results support serotype specific lifestyles as a driver for epidemiological differences, show AMR is not required for epidemiological success in *S. flexneri*, and that the HIV epidemic may have promoted *Shigella* population expansion.

Shigellosis is the second leading cause of diarrhoeal death, globally^{1,2}, with the greatest disease burden on those living in low- and middle-income countries^{1,2}. Of further concern is the high burden of disease among children under five years old (around 30% of cases and 38% of deaths), with repeat childhood infections bringing long-term health consequences, including stunted growth, impaired cognitive abilities, and chronic, functional bowel disorders^{3–10}.

The causative agents, a group of Gram-negative bacteria called *Shigella*, are convergently evolved specialised pathogens of *E. coli*¹¹. Made up of four serogroups (*S. flexneri*, *S. sonnei*, *S. boydii* and *S. dysenteriae*), they share an enteroinvasive pathogenesis mediated by acquisition of the large invasion, or virulence, plasmid (pINV)¹². Each serogroup is epidemiologically distinct, though *S. flexneri* and *S. sonnei* are of primary importance due to their global distribution and high prevalence (accounting for approximately 90% of the global shigellosis

burden)^{12–15}. The two serogroups are also genetically distinct; *S. sonnei* has only one serotype and is highly clonal, while *S. flexneri* is far more diverse genetically and serotypically (having >20 different serotypes)¹⁶. Whole genome sequence analysis (WGS) on large temporo-geographical collections of both serogroups has established new genomic nomenclatures, complementing traditional serological distinctions. These differentiate *S. flexneri* into eight phylogroups, and *S. sonnei* into five Lineages, and subsequently Clades and sub-Clades^{16,17}.

The serogroups are also thought to have distinct ecologies, with a switch from *S. flexneri* dominance to *S. sonnei* being linked with increasing industrialisation¹⁸. This may be due to reduced *Flexinomonas shigelloides* exposure in industrialised settings leading to reduced cross-protection against *S. sonnei* from their shared O-antigen^{19,20}. Though differences in pathogen lifestyle may also be involved, genetic

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Epidemiology Of Theilerosis In Africa

Michael Brown



Epidemiology Of Theilerosis In Africa:

Epidemiology Of Theilerosis In Africa Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Epidemiology Of Theilerosis In Africa**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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