



Supplementary Figure S4 Alignment of the full-length *penA* sequences from ten isolates obtained from blood and CSF clinical samples in Lithuania, wild-type *N. meningitidis* strain MC58, and *N. meningitidis* M99 241997 strain extracted from pubMLST database (ID 89367). Amino acid mutations associated with penicillin resistance (E464A, E469K, N472E, F504L, A510V, I515V, H541N, A549T, and I566V) are indicated.