Potential relevant citation identified by Medline search (n = 249)

Additional records identified through TBDReamDB (n = 132)

Records after duplicates removed (n = 373)

Non English studies excluded (n = 55)

Records screened (n = 318)

Full-text articles excluded for failure to provide reliable sequence data (n = 64)

Full-text articles assessed for eligibility (n = 254)

Studies included in qualitative synthesis (n = 198)

Full-text articles excluded for lack of AST data (n = 56)

Studies meeting full eligibility criteria (n = 174)

Reviews (n = 24)