

Dietz, Klaus; Schenzle, Dieter

Proportionate mixing models for age-dependent infection transmission. (English)

Zbl 0558.92014

J. Math. Biol. 22, 117-120 (1985).

We present explicit formulas for the transmission potential of an immunizing infection where the contact rates and the vaccination rates depend on the chronological age of an individual, and the infectivity and the recovery rate depend on the duration of an infection.

MSC:

92D25 Population dynamics (general)

Cited in **2** Reviews
Cited in **39** Documents

Keywords:

epidemiology; endemic infectious diseases; age-dependent contact rates; explicit formulas; transmission potential; immunizing infection; vaccination rates

Full Text: [DOI](#)