

# Mathematical models for *P. vivax* malaria and the dilution effect of the domestic animal population on the malaria transmission

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According to the estimation on the incubation period of *P. vivax* malaria in Korea, the incubation periods fall into two categories with short- and long-term incubation periods. We compare several possible mathematical models having different expression for the incubation periods.

With model having two exposed compartments for having short and long-term incubation period, K. Nah et al (2010) studied the dilution effect of animals on the transmission of *P. vivax* malaria.