

Survey of campylobacter, salmonella and mycoplasmas in house crows (*Corvus splendens*) in Malaysia

Abstract

House crows (*Corvus splendens*) in Selangor, Malaysia were examined for the presence of *Campylobacter* species, *Salmonella* species, *Mycoplasma gallisepticum* and *Mycoplasma synoviae* by serology, culture and pcr. For the detection of *Campylobacter* and *Salmonella* species swabs were taken either from the intestine or cloaca. For the detection of mycoplasmas, swabs were taken either from the choanal cleft or trachea for culture and pcr and serum samples were tested by the rapid serum agglutination (rsa) and monoclonal antibody-blocking elisa (mbelisa) for antibodies to *M. gallisepticum* and *M. synoviae*. For campylobacter, 25.3 per cent of the crows were positive by culture, and the species identified were *Campylobacter jejuni* and *Campylobacter coli*. No *Salmonella* species were isolated. Four of 24 swabs were positive for *M. gallisepticum* dna but none gave positive results for *M. synoviae* dna. No *M. gallisepticum* or *M. synoviae* antibodies were detected by rsa but 60 per cent of the sera gave positive reactions for *M. gallisepticum* and 13 per cent gave positive reactions for *M. synoviae* by mbelisa.

Keyword: House crows; Crows; *Corvus splendens*; *Campylobacter* species; *Salmonella* species; *Mycoplasma gallisepticum*; *Mycoplasma synoviae*.