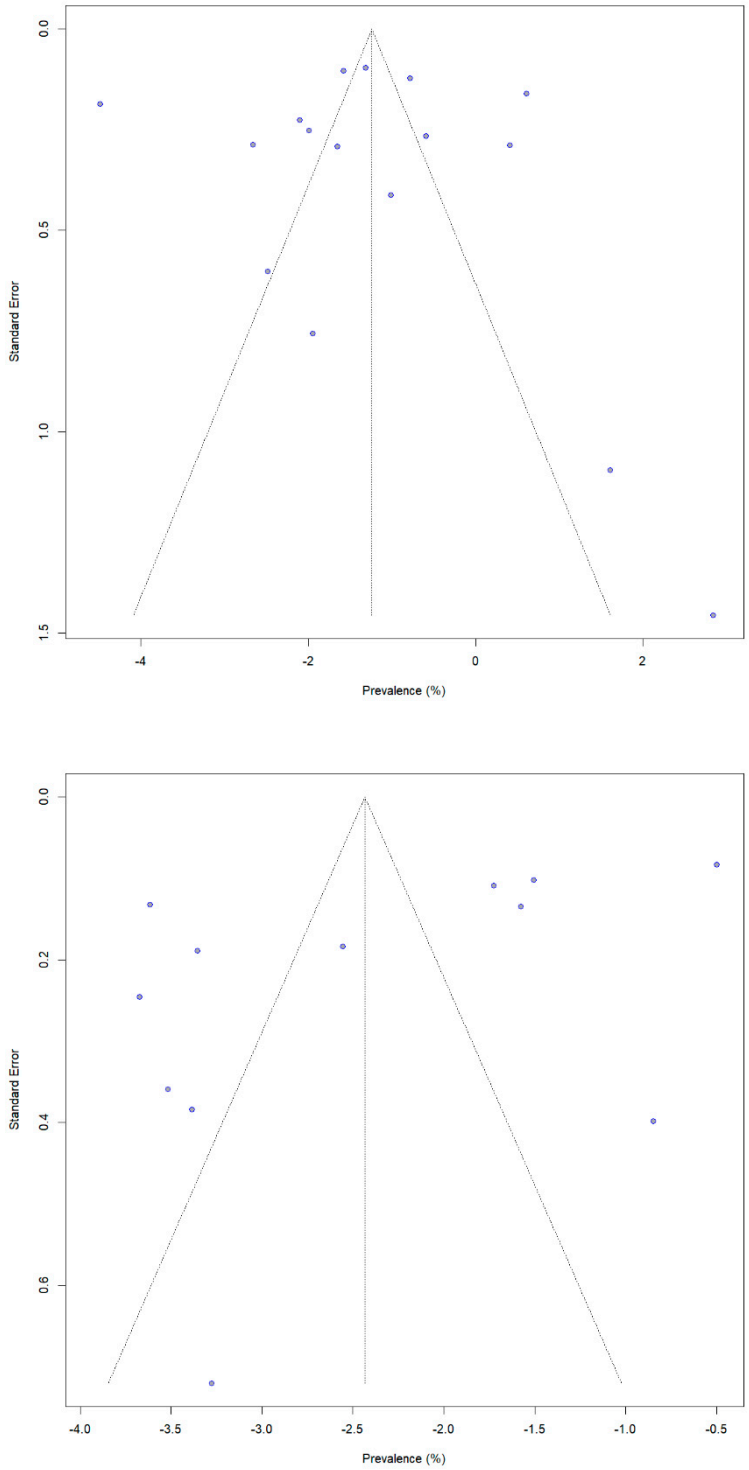
Supplementary figures

1 Funnel plots

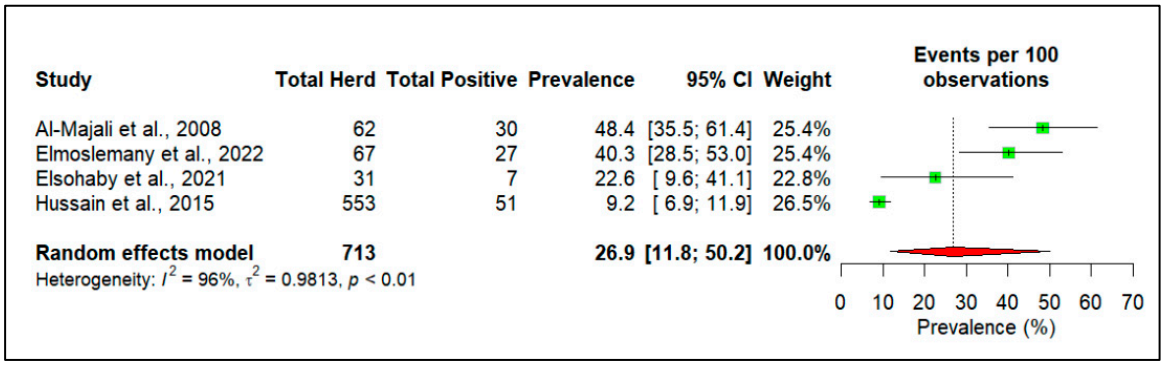


Supplementary Figure 1: Funnel plots showing seroprevalence (top) and pathogen prevalence (bottom) of paratuberculosis in livestock ruminants in the Arabian Peninsula.

2 Forest plots

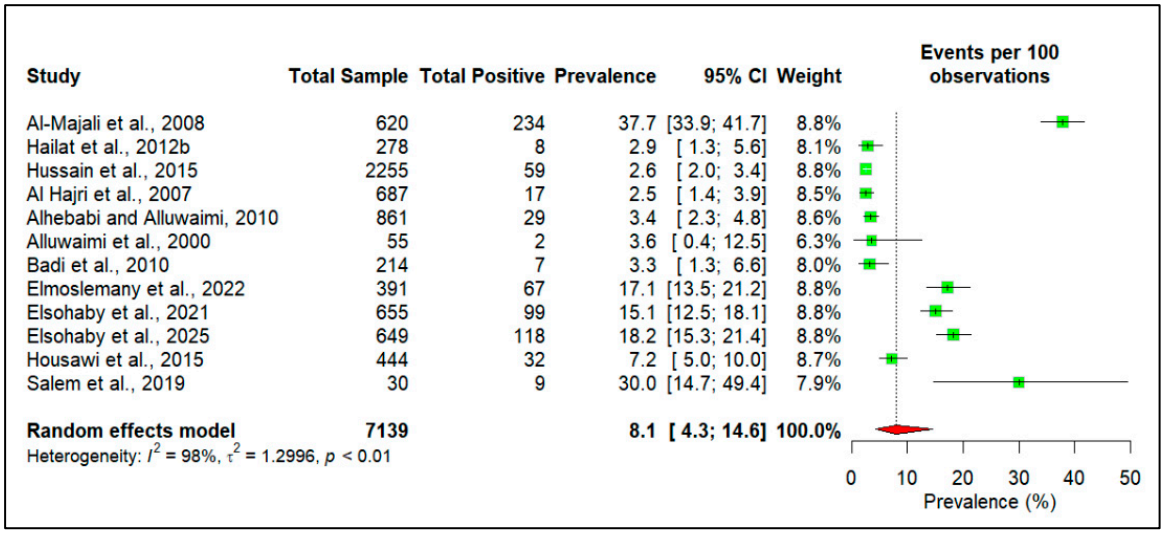
2.1 Seroprevalence of paratuberculosis in ruminants

2.1.1 Herd level seroprevalence



Supplementary Figure 2: Ruminant herd level seroprevalence of paratuberculosis in the Arabian Peninsula.

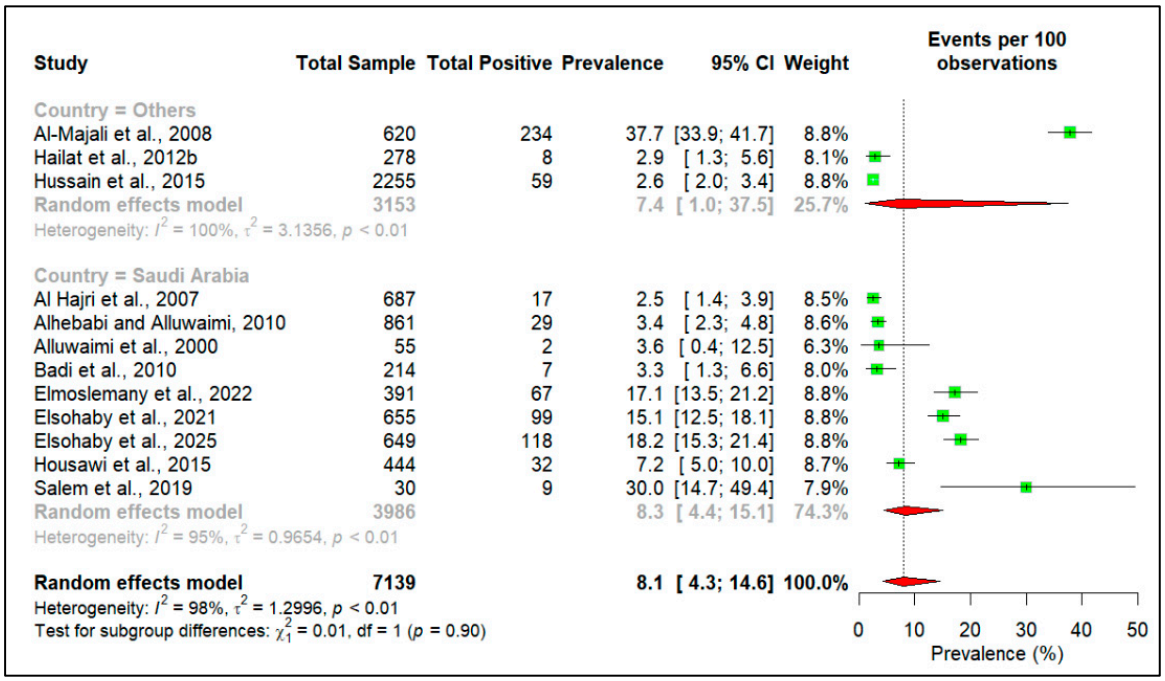
2.1.2 Individual level seroprevalence



Supplementary Figure 3: Individual animal-level estimated pooled seroprevalence of paratuberculosis in the Arabian Peninsula.

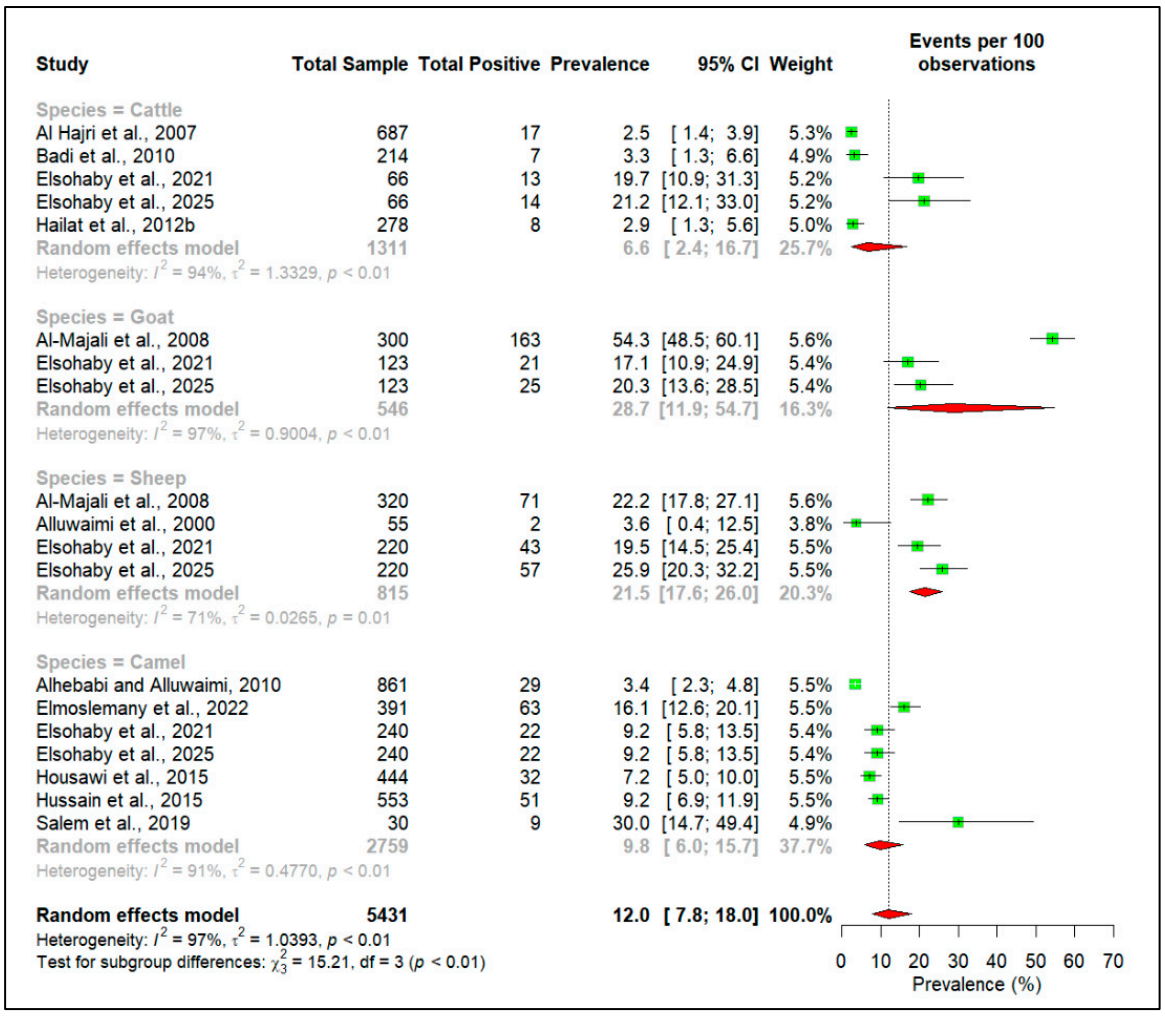
2.1.3 Risk factors of seroprevalence

2.1.3.1 Country of origin



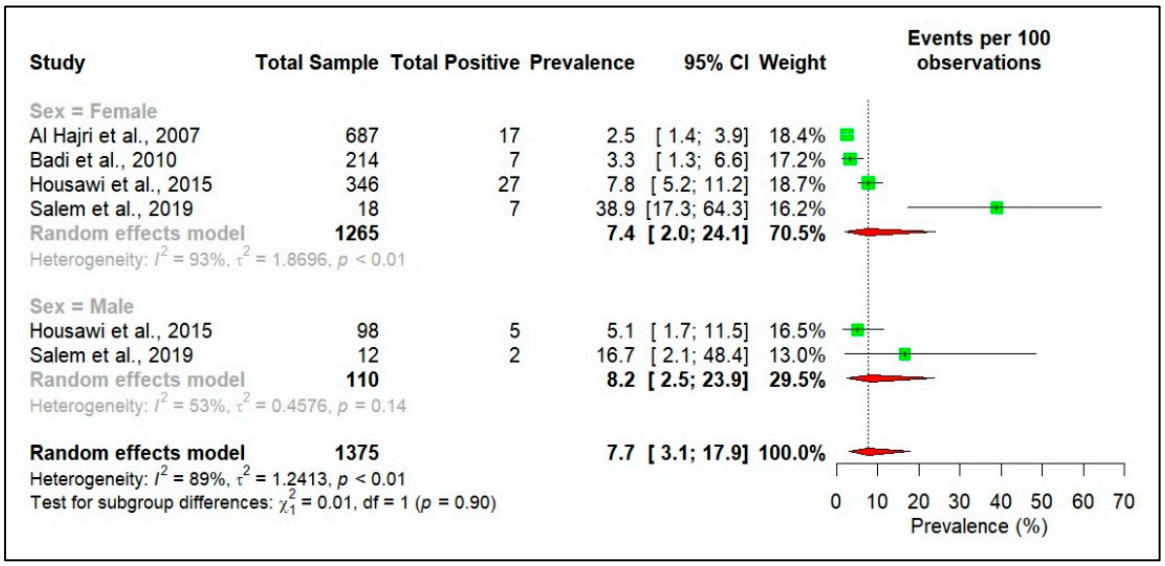
Supplementary Figure 4: Individual animal-level estimated pooled seroprevalence of paratuberculosis based on country of origin.

2.1.3.2 Species



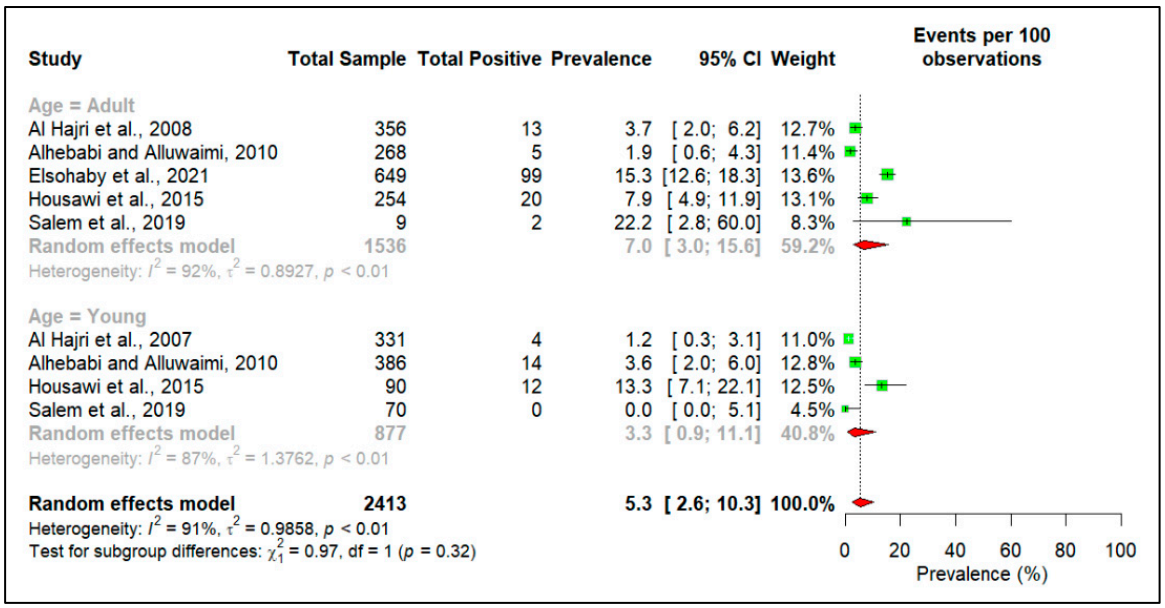
Supplementary Figure 5: Individual animal-level estimated pooled seroprevalence of paratuberculosis based on ruminant species.

2.1.3.3 Sex



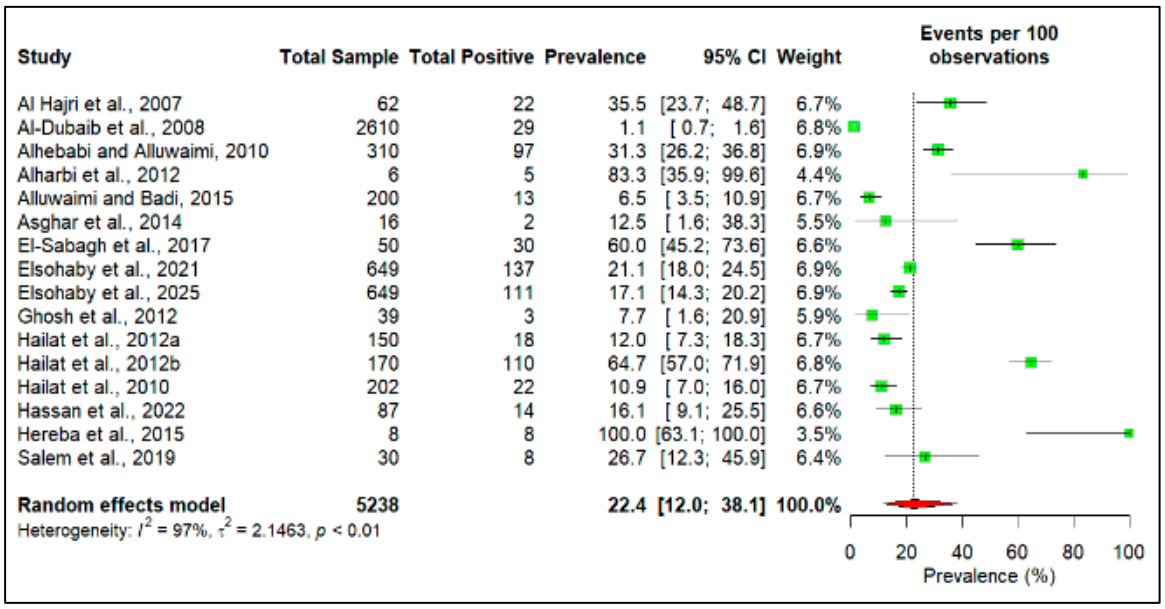
Supplementary Figure 6: Individual animal-level estimated pooled seroprevalence of paratuberculosis based on ruminant sex

2.1.3.4 Age



Supplementary Figure 7: Individual animal-level estimated pooled seroprevalence of paratuberculosis based on ruminant age.

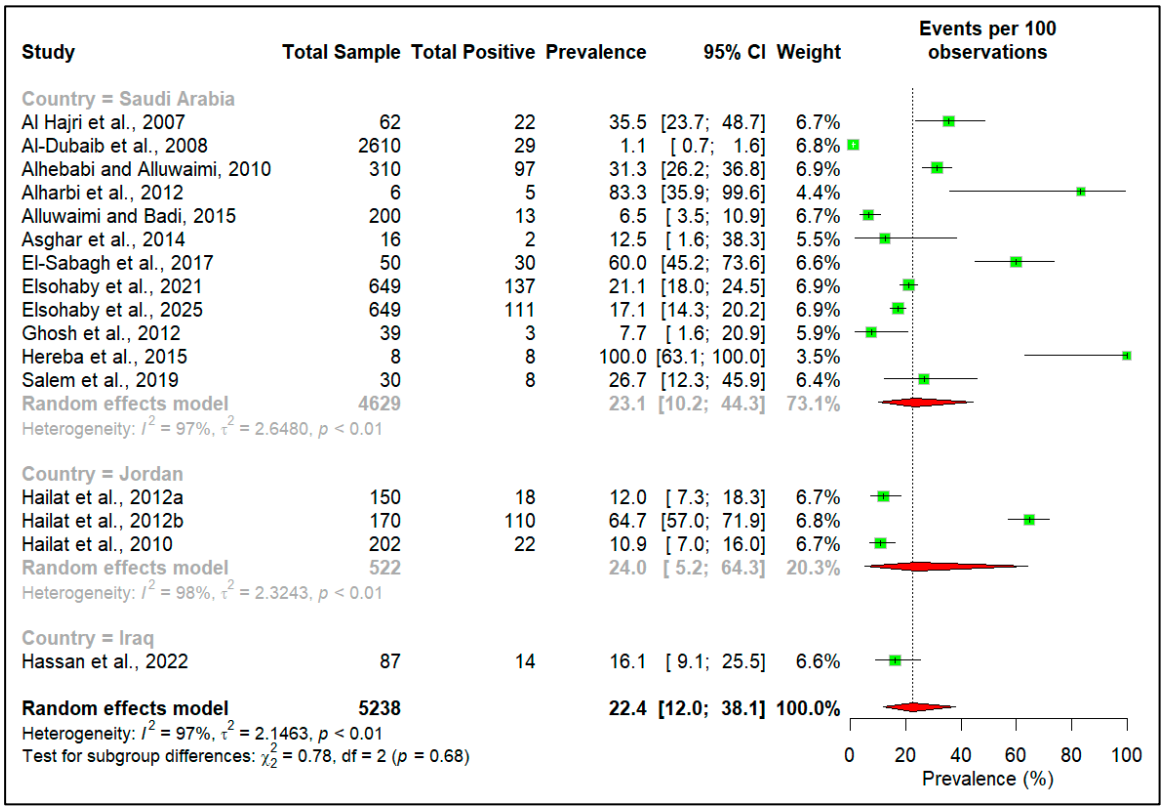
2.2 Pathogen prevalence in ruminants



Supplementary Figure 8: Individual animal-level estimated pooled pathogen prevalence of paratuberculosis in the Arabian Peninsula.

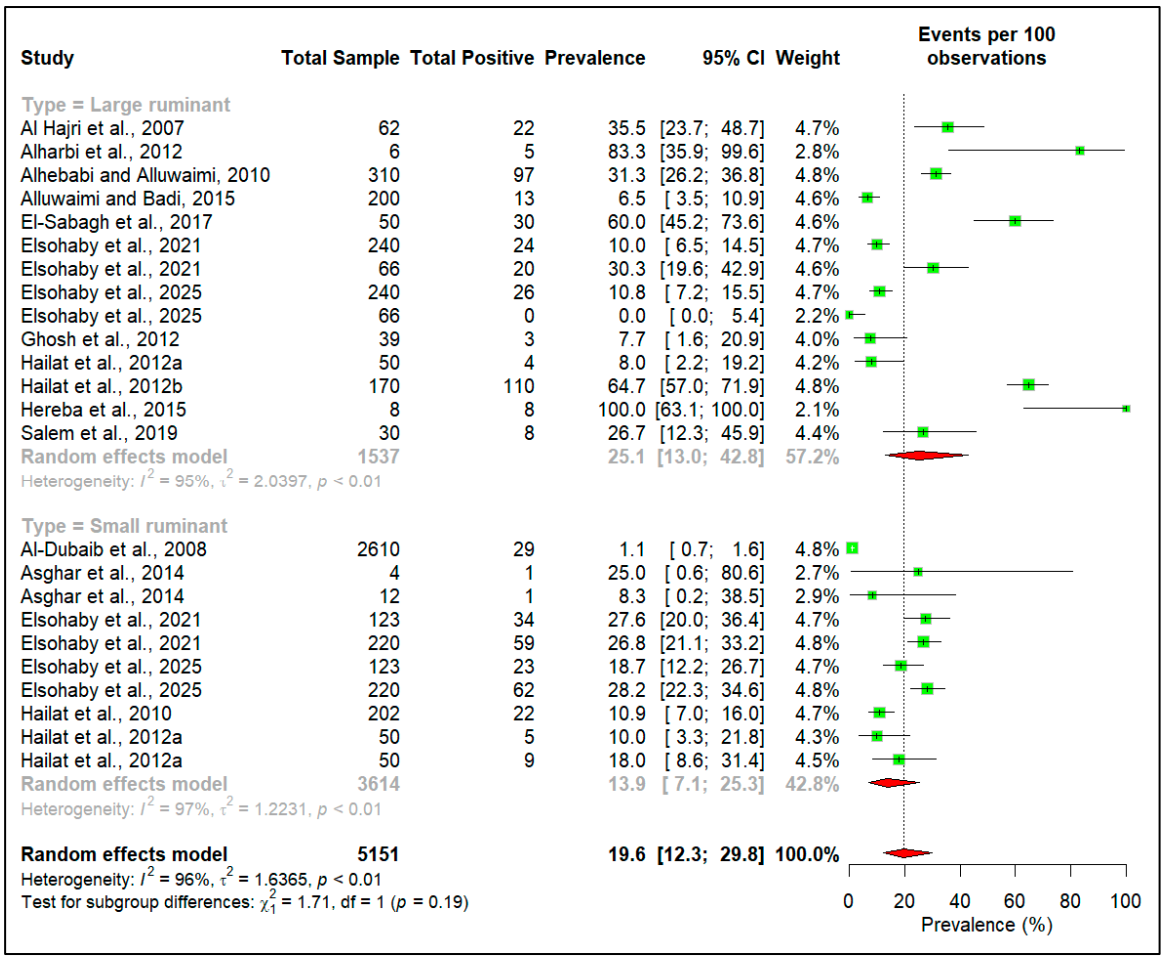
2.2.1 Risk factors of pathogen prevalence

2.2.1.1 Country of origin



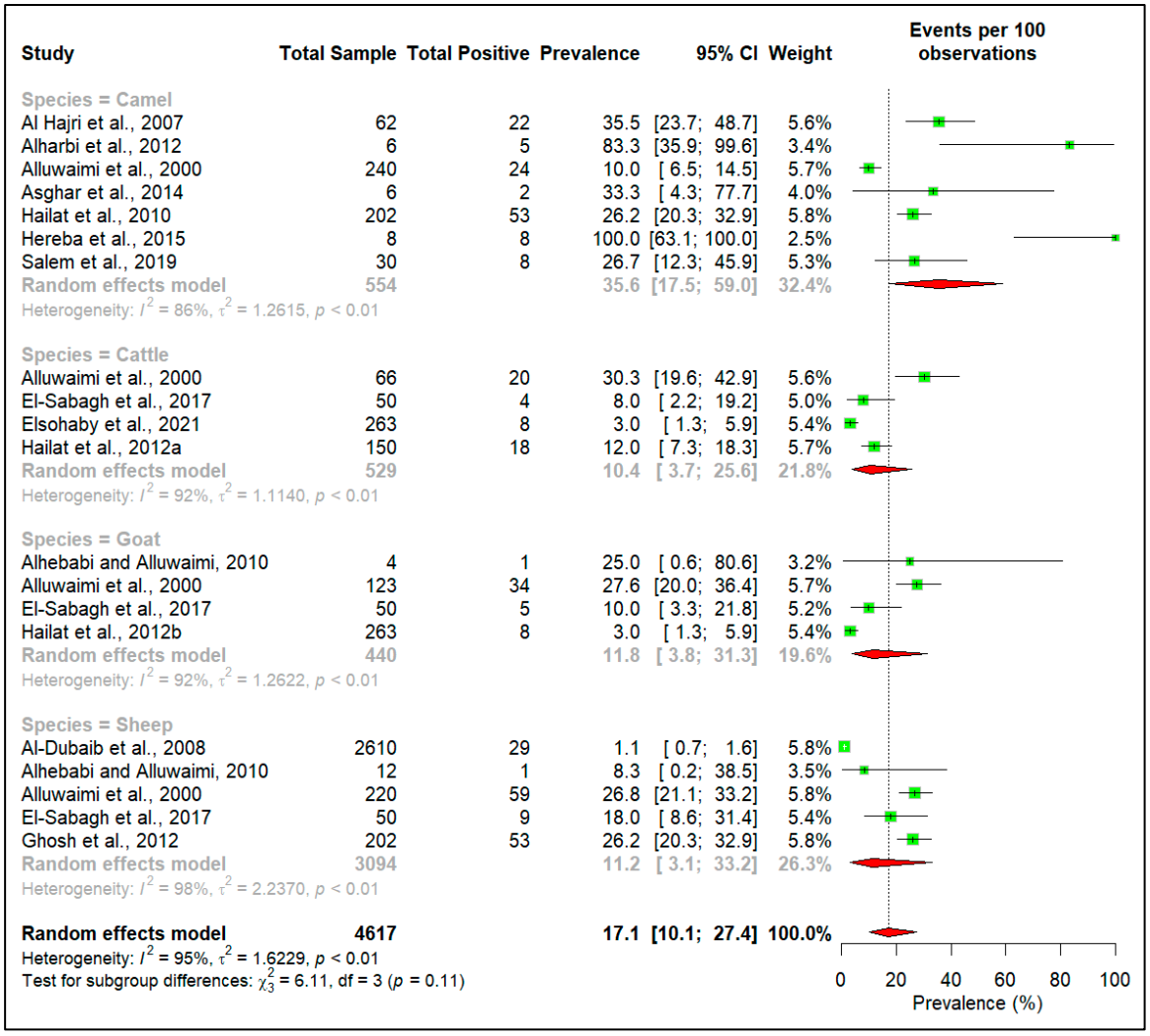
Supplementary Figure 9: Individual animal-level estimated pooled pathogen prevalence of paratuberculosis based on country of origin.

2.2.1.2 *Ruminant type*



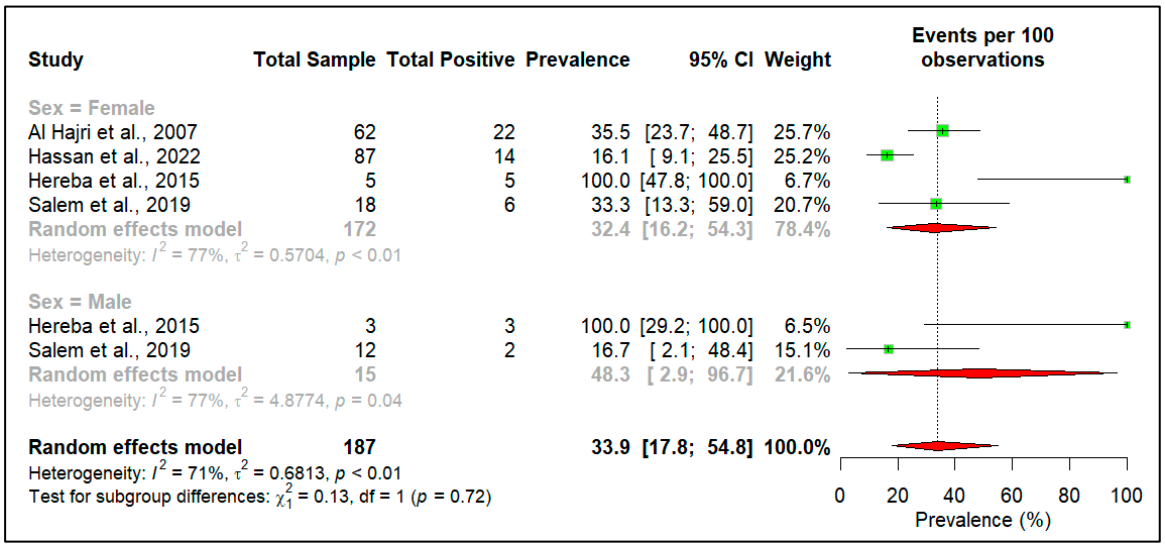
Supplementary Figure 10: Individual animal-level estimated pooled pathogen prevalence of paratuberculosis based on ruminant type.

2.2.1.3 Species



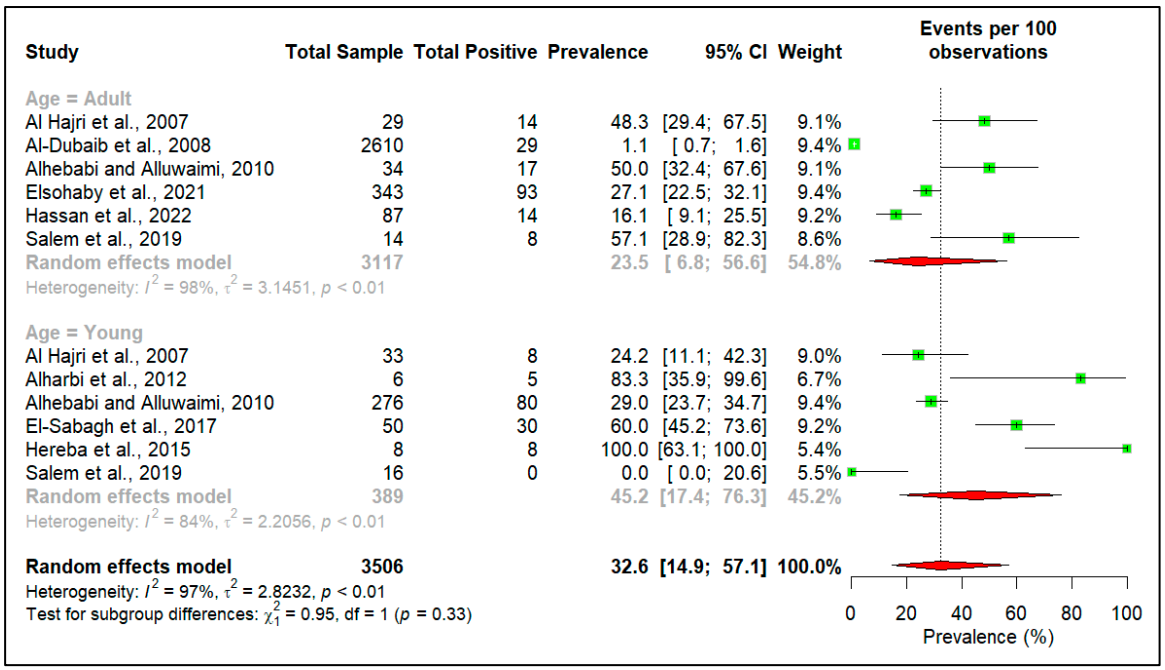
Supplementary Figure 11: Individual animal-level estimated pooled pathogen prevalence of paratuberculosis based on ruminant species.

2.2.1.4 Sex



Supplementary Figure 12: Individual animal-level estimated pooled pathogen prevalence of paratuberculosis based on ruminant sex.

2.2.1.5 Age



Supplementary Figure 13: Individual animal-level estimated pooled pathogen prevalence of paratuberculosis based on ruminant age.