

Methods and Results

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Methods

Data analysis

Results

Q1: Proportion of asymptomatic cases

We included 86 studies that reported empirical data about 15,952 people with SARS-CoV-2 infection (4,350 defined as having asymptomatic infection).

Q2.1: Secondary attack rate from asymptomatic and presymptomatic cases

Q2.2: Proportion of transmission from asymptomatic or pre-symptomatic infections

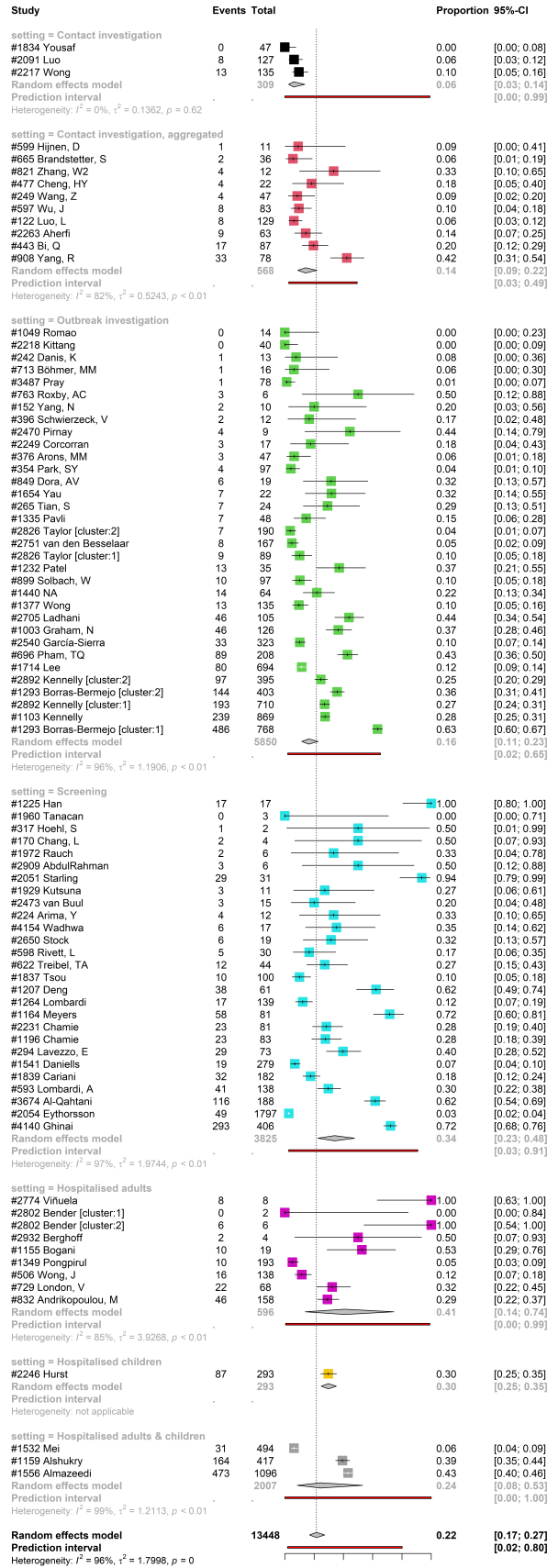


Figure 1: Figure 1. Forest plot of proportion of people with asymptomatic SARS-CoV-2 infection, stratified by setting

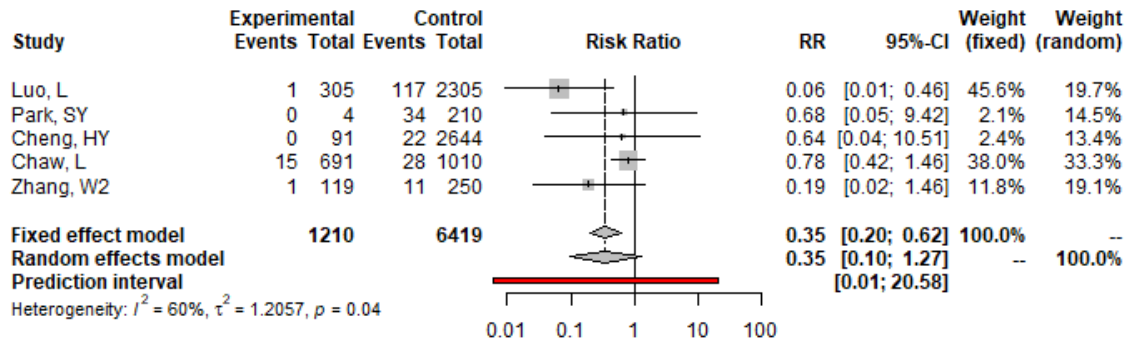


Figure 2: Figure 2. Forest plot of secondary attack rate comparing infections in contacts of asymptomatic index cases with infections in contacts of symptomatic cases

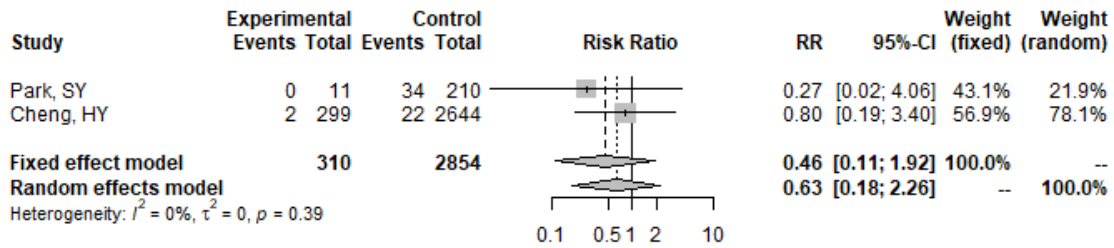


Figure 3: Figure 3. Forest plot of secondary attack rate comparing infections in contacts of presymptomatic index cases with infections in contacts of symptomatic cases

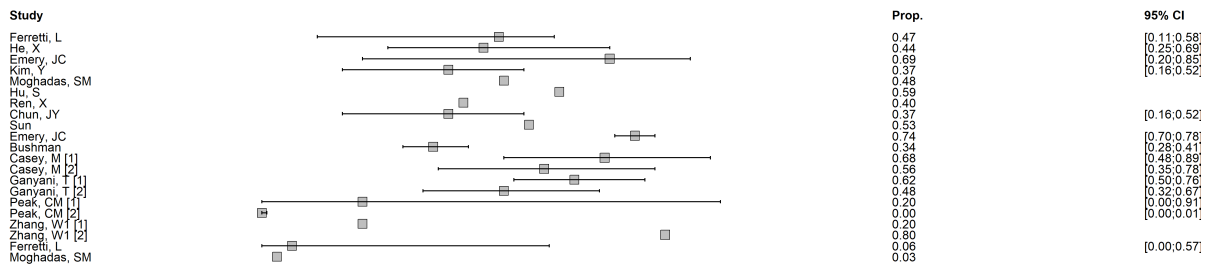


Figure 4: Figure 4. Forest plot of proportion of SARS-CoV-2 infection resulting from asymptomatic or presymptomatic transmission

| record_id | label | setting |
|-----------|----------------|---|
| 88 | Ferretti, L | NA |
| 88 | Ferretti, L | NA |
| 89 | Ganyani, T [1] | Tianjin, China |
| 89 | Ganyani, T [2] | Singapore |
| 183 | Zhang, W1 [1] | Early Transmission in Wuhan |
| 183 | Zhang, W1 [2] | Imported Cases Outside Wuhan |
| 279 | He, X | NA |
| 590 | Emery, JC | Diamond Princess |
| 591 | Casey, M [1] | GI |
| 591 | Casey, M [2] | SI |
| 728 | Kim, Y | NA |
| 798 | Peak, CM [1] | Short SI |
| 798 | Peak, CM [2] | Long SI |
| 1508 | Moghadas, SM | New York City |
| 1508 | Moghadas, SM | New York City |
| 1758 | Hu, S | Households; workplace; healthcare facilities |
| 2001 | Ren, X | Throughout China outside Hubei |
| 2034 | Chun, JY | Government data, linked clusters such as religious groups, hospitals, or long-term healthcare |
| 2084 | Sun | NA |
| 2325 | Emery, JC | Diamond Princess Cruiseship |
| 4517 | Bushman | China, surveillance data |