**Appendix 2 (as supplied by authors):** Association between prevalence and other study characteristics and logit sensitivity and logit specificity.

| Study | Covariate used in model | AIC[1] | p value[2] (logit sensitivity) | P value[2] (logit specificity) |
|---|---|---|---|---|
| Fiellin [19] | Prevalence | 182.5 | 0.4 | 0.01 |
| | Partial verification[3] | 185.3 | 0.3 | 0.2 |
| Gould [20] | Prevalence | 200.5 | 0.8 | 0.01 |
| | Exclusion of patients with difficult-to-diagnose conditions | 206.3 | 0.4 | 0.6 |
| | Patient referral pattern | 201.9 | 1.0 | 0.004 |
| | Differential verification[4] | 207.1 | 0.6 | 0.7 |
| Hoogendam [23] | Prevalence | 222.0 | 0.6 | 0.02 |
| | Partial verification[3] | 226.5 | 0.3 | 1.0 |
| | Consecutive enrolment | 226.8 | 0.5 | 0.7 |
| | Exclusion of patients with difficult-to-diagnose conditions | 222.6 | 0.5 | 0.04 |
| Kim [27] | Prevalence | 417.9 | 0.0005 | 0.02 |
| | Consecutive enrollment | 433.4 | 0.5 | 0.8 |
| | Exclusion of patients with difficult-to-diagnose conditions | 427.7 | 0.04 | 0.1 |
| | Patient referral pattern | 430 | 0.2 | 0.1 |
| Mitchell [30] | Prevalence | 275.9 | 0.6 | 0.03 |
| | Setting | 280.3 | 0.7 | 0.7 |
| | Exclusion of patients with difficult-to-diagnose conditions | 277.3 | 0.3 | 0.8 |
| | Patient referral pattern | 278.9 | 0.2 | 0.3 |
| Mol [31] | Prevalence | 325.1 | 0.6 | 0.02 |
| | Setting | 324.9 | 0.6 | 0.01 |
| | Patient referral pattern | 327.6 | 0.5 | 0.1 |
| | Differential verification[4] | 325.6 | 0.3 | 0.04 |
| Visser [37] | Prevalence | 251.2 | 0.1 | 0.003 |
| | Patient referral pattern | 254.9 | 0.5 | 0.03 |

[1]AIC: Akaike's Information Criterion (lower AIC corresponds to better fit).
[2]A p value below 0.05 indicates that there is a significant association between the listed covariate and logit sensitivity (second last column) or logit specificity (last column).
[3]Partial verification refers to the situation where only a subset of the patients included in the study undergo the reference standard.
[4] Differential verification refers to the use of two or more reference standards.