

Supplementary Materials

Comparative Epidemiology and Co-Detection of *Mycoplasma genitalium* and *Mycoplasma hominis* in Adult Urogenital PCR Testing

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Abbreviations: aPR, adjusted prevalence ratio; CI, confidence interval; MG, *Mycoplasma genitalium*; MH, *Mycoplasma hominis*; PR, prevalence ratio.

Table S1. Age- and sex-specific detection prevalence of MG and MH in decade bands.

Target	Sex	Age group	Records, n	Positive, n	Prevalence, %	95% CI
MG	Male	18–29	37,232	1,811	4.86	4.65–5.09
MG	Male	30–39	35,384	1,264	3.57	3.38–3.77
MG	Male	40–49	23,653	520	2.20	2.02–2.39
MG	Male	50–59	18,976	166	0.87	0.75–1.02
MG	Male	60–69	14,010	51	0.36	0.28–0.48
MG	Male	≥70	7,250	6	0.08	0.04–0.18
MG	Female	18–29	8,702	248	2.85	2.52–3.22
MG	Female	30–39	8,407	89	1.06	0.86–1.30
MG	Female	40–49	8,419	44	0.52	0.39–0.70
MG	Female	50–59	7,729	13	0.17	0.10–0.29
MG	Female	60–69	4,664	3	0.06	0.02–0.19
MG	Female	≥70	2,427	0	0.00	0.00–0.16
MH	Male	18–29	37,232	1,664	4.47	4.26–4.68
MH	Male	30–39	35,386	1,509	4.26	4.06–4.48
MH	Male	40–49	23,653	882	3.73	3.49–3.98
MH	Male	50–59	18,976	607	3.20	2.96–3.46
MH	Male	60–69	14,010	313	2.23	2.00–2.49
MH	Male	≥70	7,250	133	1.83	1.55–2.17
MH	Female	18–29	8,702	955	10.97	10.33–11.65
MH	Female	30–39	8,407	535	6.36	5.86–6.91
MH	Female	40–49	8,419	636	7.55	7.01–8.14
MH	Female	50–59	7,729	559	7.23	6.68–7.83
MH	Female	60–69	4,664	174	3.73	3.22–4.31
MH	Female	≥70	2,427	57	2.35	1.82–3.03

CI, confidence interval (Wilson score method). These values underlie Figure 1. The age bands differ from those in Table 2: the main analyses used five groups with a combined ≥60-year category, which is split here into 60–69 and ≥70 years. Denominators exclude non-evaluable results for the corresponding target only.

Table S2. Detection prevalence of MG and MH by specimen type and sex.

Target	Specimen type	Sex	Records, n	Positive, n	Prevalence, %	95% CI
MG	Urine	Female	17,300	89	0.51	0.42–0.63
MG	Urine	Male	125,201	3,520	2.81	2.72–2.90
MG	Swab	Female	21,013	287	1.37	1.22–1.53
MG	Swab	Male	717	23	3.21	2.15–4.77
MG	Other	Female	2,035	21	1.03	0.68–1.57
MG	Other	Male	10,215	272	2.66	2.37–2.99

Target	Specimen type	Sex	Records, n	Positive, n	Prevalence, %	95% CI
MG	Semen	Male	372	3	0.81	0.27–2.34
MH	Urine	Female	17,300	873	5.05	4.73–5.38
MH	Urine	Male	125,203	4,729	3.78	3.67–3.88
MH	Swab	Female	21,013	1,949	9.28	8.89–9.67
MH	Swab	Male	717	27	3.77	2.60–5.42
MH	Other	Female	2,035	94	4.62	3.79–5.62
MH	Other	Male	10,215	346	3.39	3.05–3.76
MH	Semen	Male	372	6	1.61	0.74–3.47

Rows are ordered as in Table 1 (urine, swab, other, semen). Strata containing fewer than 50 specimen-level laboratory records are not shown. Semen specimens were obtained from men only, so no female stratum exists for that category. The direction of the sex contrast is preserved for both organisms within every specimen stratum in which both sexes are represented. The “Other” category was supplied as a pre-aggregated residual category in the de-identified research dataset; its component specimen labels were not retained and therefore could not be listed separately.

Table S3. Urine-only sensitivity analysis.

Panel A. Separate models for each organism, fitted within urine records.

Target	Records, n	Positive, n	Age aPR per 10 y (95% CI)	Female aPR (95% CI)
MG	142,501	3,609	0.584 (0.568–0.600)	0.242 (0.197–0.299)
MH	142,503	5,602	0.848 (0.833–0.864)	1.425 (1.327–1.531)

Panel B. Target-by-covariate interaction terms from a stacked model fitted within urine records.

Interaction	PR (95% CI)
Age × MH	1.453 (1.406–1.502)
Female × MH	5.879 (4.731–7.307)

Panel A models were adjusted for continuous age (per 10 years), sex, and collection year, with HC0 robust standard errors. Records for collection year 2018 cover September through December only. Panel B was a stacked model containing a target indicator; continuous age, sex, and collection-year main effects; and target-by-age, target-by-sex, and target-by-year interaction terms, with standard errors clustered by specimen-level laboratory record. With the matched specifications, the Panel B interaction estimates directly represent the ratios of the organism-specific effects. The corresponding MH estimates derived from the main and interaction terms were 0.848 for age and 1.425 for female sex. Both interaction terms had $p < 0.001$. The corresponding whole-cohort interaction PRs were 1.519 for age and 4.653 for sex (Table 4).