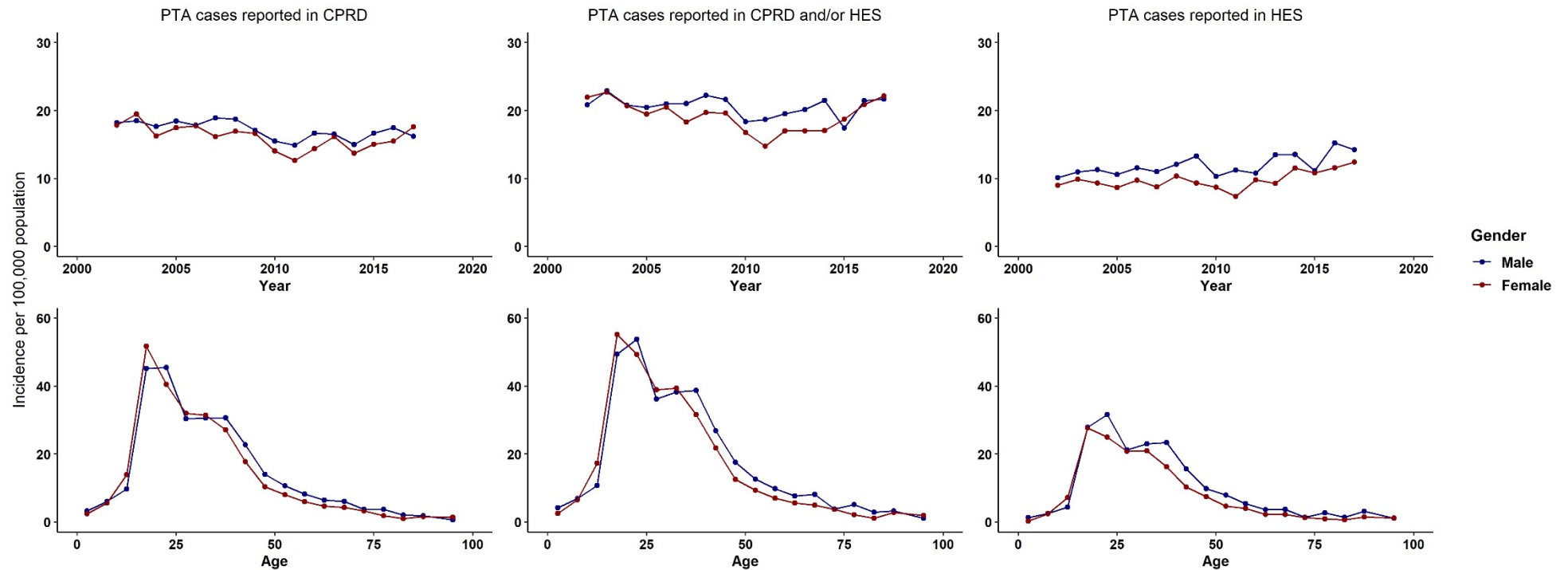


Supplemental materials for:

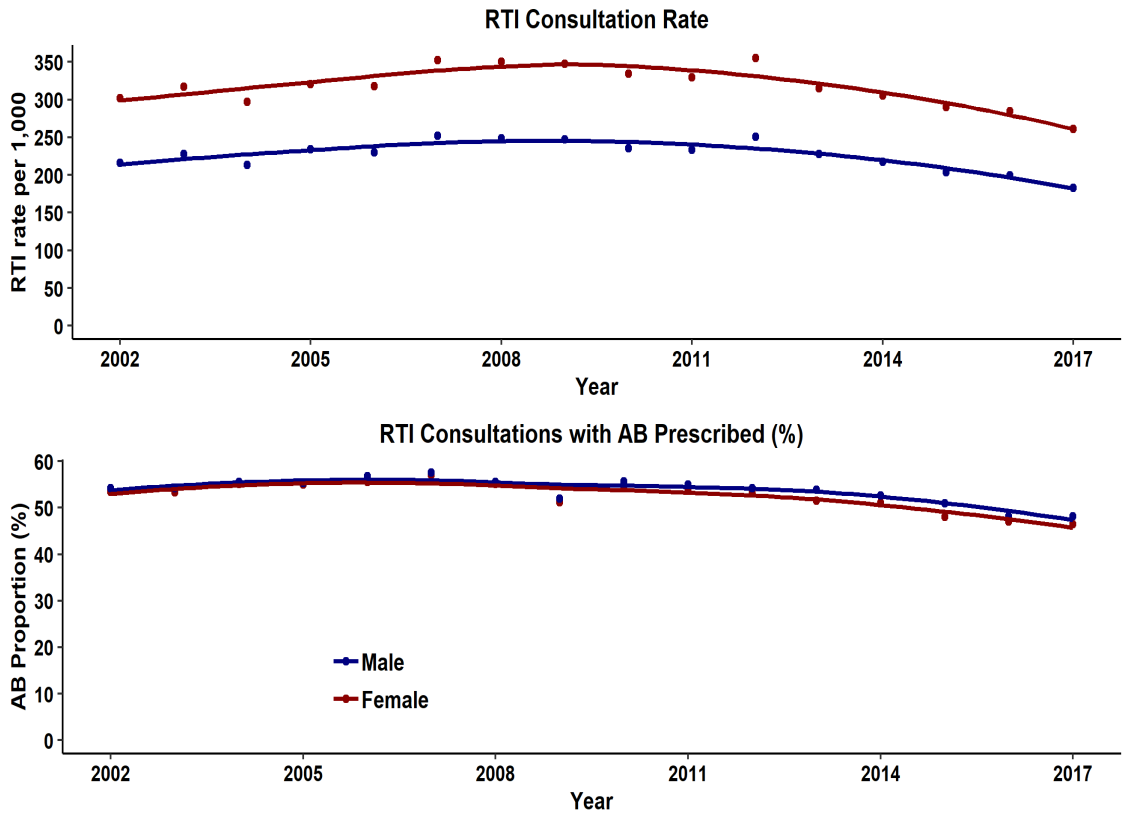
Winter JR, Charlton J, Ashworth M, Bunce C, Gulliford MC. Peritonsillar abscess and antibiotic prescribing for respiratory infection in primary care: a population-based cohort study and decision-analytic model. *Ann Fam Med.* 2020;18(5):390-396.

Supplemental Figure 1: The incidence of first cases of peritonsillar abscess reported from 2002-2017, stratified by gender.

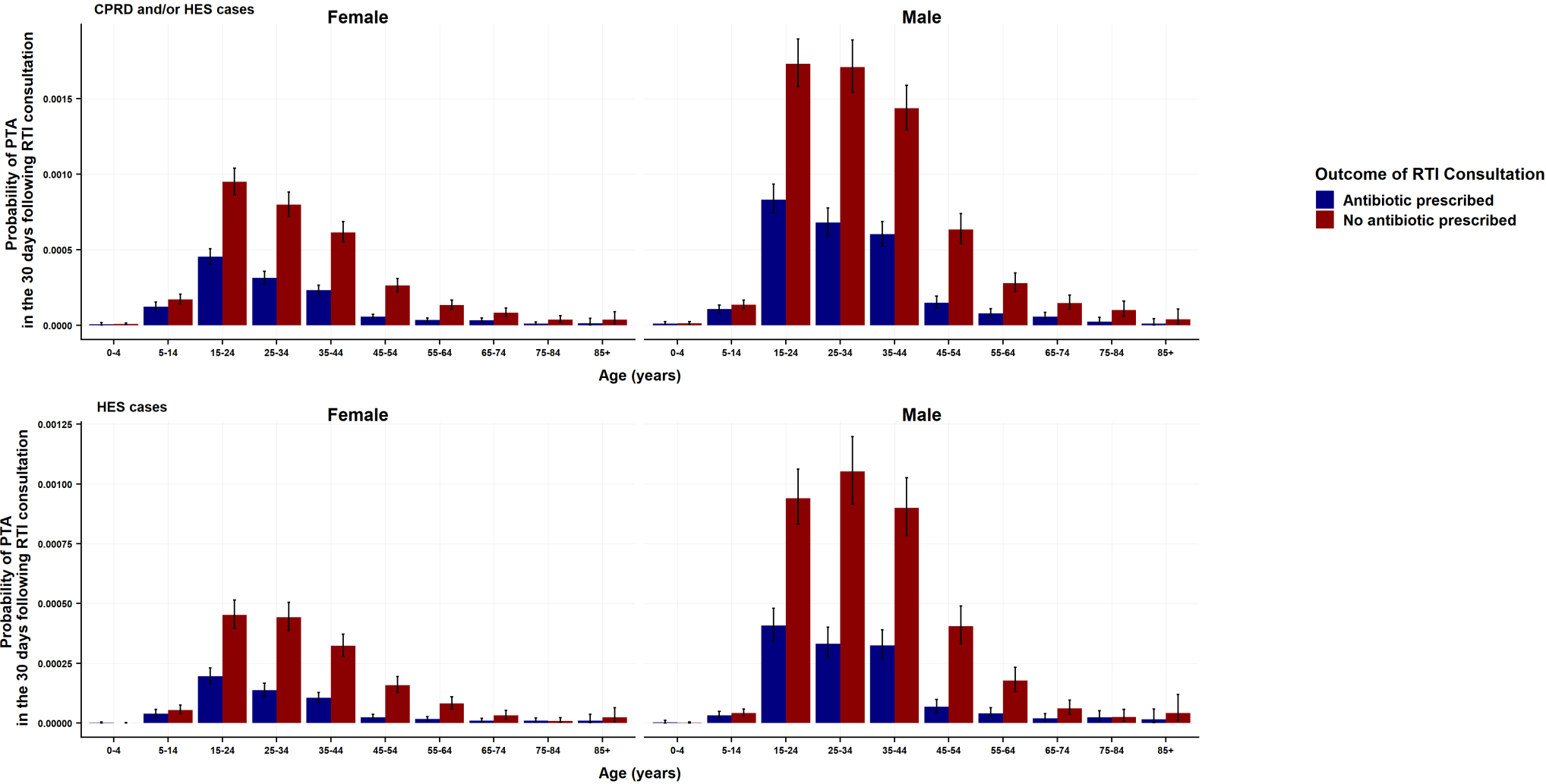
Age-standardised PTA incidence (top) by year from 2002-2017, and age-specific PTA incidence for five-year age groups (bottom) for the period 2002-2017.



Supplemental Figure 2: Consultation rate for self-limiting respiratory tract infections (RTI) per 1,000 patient years and proportion (%) of RTI consultations with antibiotics (AB) prescribed 2002 to 2017.



Supplemental Figure 3: Age- and gender-specific monthly probability of PTA in patients who consulted for RTI, with and without antibiotic prescription



Top: PTA cases reported in CPRD or HES. Bottom: PTA cases reported in HES

Supplemental Table 1: Probability of peritonsillar abscess in 30 days following a consultation for RTI, and estimated number of antibiotic prescriptions required to prevent one case of peritonsillar abscess by age group and gender. Bracketed figures are 95% uncertainty intervals.

Age group (years)	MALE		FEMALE	
	Probability of PTA (x100,000)		Probability of PTA (x100,000)	
	Without antibiotic	With antibiotic	Without antibiotic	With antibiotic
0 to 4	1.1 (0.6 to 1.7)	0.9 (0.4 to 1.7)	0.9 (0.4 to 1.4)	0.8 (0.3 to 1.5)
5 to 14	14.3 (12.2 to 16.6)	10.3 (8.5 to 12.3)	16.4 (14.1 to 18.8)	10.8 (8.9 to 12.9)
15 to 24	177.1 (165.3 to 189.6)	87.8 (80.5 to 95.7)	97.4 (90.9 to 104.4)	48.1 (44.0 to 52.5)
25 to 34	171.7 (158.3 to 185.8)	63.6 (57.1 to 70.6)	79.5 (73.4 to 85.7)	29.0 (26.0 to 32.2)
35 to 44	141.2 (130.2 to 152.7)	53.3 (47.7 to 59.0)	62.3 (57.3 to 67.7)	21.2 (18.9 to 23.6)
45 to 54	65.0 (57.8 to 72.9)	17.4 (14.3 to 20.9)	27.6 (24.3 to 31.2)	6.8 (5.5 to 8.2)
55 to 64	25.8 (21.4 to 30.6)	10.1 (7.8 to 12.6)	12.4 (10.2 to 14.9)	4.4 (3.4 to 5.6)
65 to 74	12.7 (9.7 to 16.1)	4.3 (2.9 to 6.1)	7.7 (5.8 to 9.8)	2.6 (1.7 to 3.6)
75 to 84	8.3 (5.3 to 12.0)	3.1 (1.6 to 5.1)	3.7 (2.2 to 5.6)	1.5 (0.7 to 2.5)
85+	4.1 (1.4 to 8.9)	0.8 (0.1 to 2.6)	4.1 (1.6 to 7.9)	1.0 (0.1 to 2.8)