Table S1 Definitions of different levels of GP-recorded pregnancy indicators reflecting GPs' awareness of pregnancy
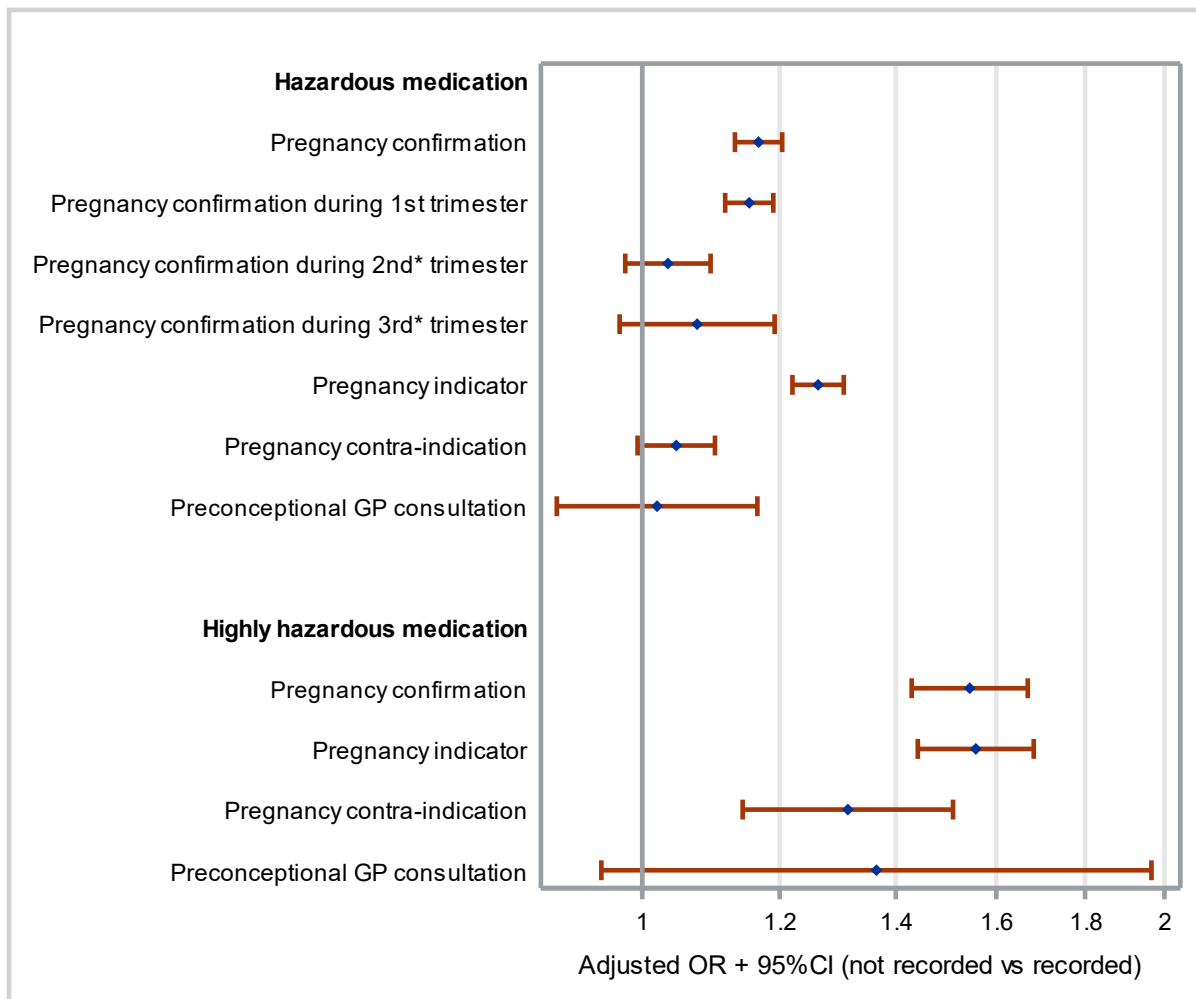
Type of indicator	Operationalisation	Code(s)	Search terms
Pregnancy confirmation	At least one record during pregnancy (i.e. conception date ≤ record date ≤ delivery date) with any of the defined ICPC codes or search terms in any of the GP reference tables of interest: EPI, EXA, COR, MED, JRN or INV. The timing of pregnancy trimester was additionally grouped by pregnancy trimester according to the first recorded occurrence as follows: - First trimester: conception date ≤ record date < conception date + (13*7) - Second trimester: conception date + (13*7) ≤ record date < conception date + (28*7) Third trimester: conception date + (28*7) ≤ record date ≤ delivery date	**ICPC:** W78 Pregnancy W79 Unwanted pregnancy	-
Pregnancy indicator	At least one record during pregnancy (i.e. conception date ≤ record date ≤ delivery date) with any of the defined ICPC codes or search terms in any of the GP reference tables of interest: EPI, EXA, COR, MED, JRN, INV or CIA.	**ICPC:** W02 Fear of pregnancy W03 Antepartum bleeding W05 Pregnancy vomiting/nausea W17 Post-partum bleeding W18 Post-partum symptom/complaint oth. W19 Breast/lactation symptom/complaint W21 Concern body image in pregnancy W27 Fear complications of pregnancy W28 Limited function/disability (w) W29 Pregnancy symptom/complaint other W70 Puerperal infection/sepsis W71 Infection complicating pregnancy W72 Malignant neoplasm relate to preg. W73 Benign/unspec. neoplasm/pregnancy W75 Injury complicating pregnancy W76 Congenital anomaly complicate preg. W78 Pregnancy W79 Unwanted pregnancy W80 Ectopic pregnancy W81 Toxaemia of pregnancy W82 Abortion spontaneous W83 Abortion induced W84 Pregnancy high risk	All search terms indicating pregnancy (e.g. 'zwangerschap', 'moeder geworden', 'bevallen', 'gravida', 'gynaecologist') excl. those indicating the wish to get pregnant (e.g. 'zwangerschapswens', 'wil zwanger worden')

Type of indicator	Operationalisation	Code(s)	Search terms
		W85 Gestational diabetes W90 Uncomplicate labour/delivery live W91 Uncomplicate labour/delivery still W92 Complicate labour/ delivery livebirth W93 Complicate labour/delivery stillbirth W94 Puerperal mastitis W95 Breast disorder in pregnancy other W96 Complications of puerperium other W99 Disorder pregnancy/delivery, other **WCIA**: 439 Urine pregnancy test (positive) 1282 Rhesus (screening pregnancy) 1883 Duration pregnancy 2030 Pregnancy (comorbidity) 2187 Urine pregnancy test stick (positive) 2349 Uterine ultrasound pregnancy 2997 Date planned ultrasound pregnancy 3271 Fetal rhesus D typing (screening pregnancy) 3753 HCG Pregnancy Urine POC test	
Pregnancy contra-indication	At least one record during pregnancy (i.e. conception date ≤ record date ≤ delivery date) with any of the defined ICPC codes or search terms in the CIA GP reference table.	**CIA:** 1320 Pregnancy	'Pregnancy' (only in case CIA code is empty)
Preconceptional GP consultation	At least one record in the year before pregnancy (i.e. conception date - 365 ≤ record date < conception date) with any of the defined ICPC codes or search terms in the EPI GP reference table.	**ICPC:** A97.02 Wish to have children	-

CIA = contra-indications, for recording diagnoses part of drug surveillance; COR = correspondence, for recording correspondence to and from other care providers; EPI = episodes, for recording the patient's health problem during an encounter; EXA = examinations, for recording diagnostics such as laboratory results; ICPC = International Classification of Primary Care; INV = invoices, for recording actions and the associated financial reimbursement; JRN = journals, recording all patient contacts as well as the undertaken action according to the SOEP-system (Subjective, Objective, Evaluation, Plan); MED = medication, including all medication records as prescribed by the GP; WCIA = Werkgroep Coördinatie Informatie Automatisering.
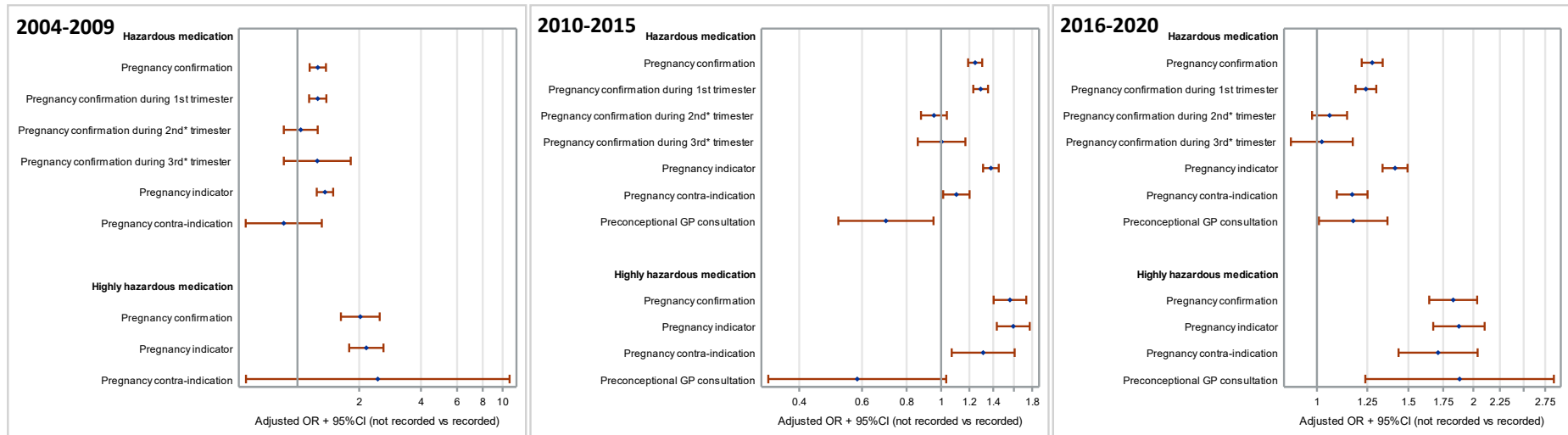
Table S2 ATC codes for use of medication for chronic conditions

Chronic condition	ATC
Drugs used in diabetes	A10
Corticosteroids, dermatological preparations	D07
Corticosteroids for systemic use	H02
Thyroid therapy	H03
Anti-inflammatory and antirheumatic products	M01
Antimigraine medication	N02C
Antiepileptics	N03A
Antipsychotics	N05A, excl. N05AB04
Antidepressants	N06A
Antiasthmatics	R03

*First recorded, i.e. without recorded pregnancy confirmation in the prior trimester(s)

Figure S1 Likelihood of (highly) hazardous medication being <u>dispensed</u> during pregnancy by selected GP-recorded pregnancy indicators reflecting GPs' awareness

*First recorded, i.e. without recorded pregnancy confirmation in the prior trimester(s)

Figure S2 Likelihood of (highly) hazardous medication being prescribed during pregnancy by selected GP-recorded pregnancy indicators reflecting GPs' awareness, by year of delivery