



Supporting Information

Supplementary methods and results

**This appendix was part of the submitted manuscript and has been peer reviewed.
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Appendix to: Mazza D, Thapaliya K, Crawford SB, et al. The clinical presentation, investigation, and management of women diagnosed with endometriosis in Australian general practices, 2011–2021: an open cohort study. *Med J Aust* 2025; doi: 10.5694/mja2.70062.

Supplementary methods

Table 1. Free text terms for endometriosis symptoms

Symptoms	Search terms*
Dysmenorrhea	"DYSMENORRHEA" "PERIOD PAIN" "DISMEN" "MENSTR" & ("CRAMP" "PAIN" "DISCOMFORT" "ACHING") "PERIOD" & ("CRAMP" "PAIN" "DISCOMFORT" "ACHING") "MENSES" & ("CRAMP" "PAIN" "DISCOMFORT" "ACHING") "MONTHLY" & ("CRAMP" "PAIN" "DISCOMFORT" "ACHING")
Heavy menstrual bleeding	"MENORRHAGIA" "HEAVY" & "PERIOD" "HEAVY MENSTRUAL BLEEDING" "PROLONGED" & ("PERIOD" "VAGINAL BLEEDING" "MENSTRUAL")
Altered bleeding	"METRORRHAGIA" "MENSTRUAL" & "BLEED" "BREAKTHROUGH BLEED" "BREAK THROUGH BLEED" "PV BLEED" "UTERINE BLEEDING" "INTERMENSTRUAL BLEEDING" "INTER MENSTRUAL BLEED" "VAGINAL BLEED" "POST COITAL BLEED" "BLEEDING – VAGINAL" "ABNORMAL MENSTRUAL BLEEDING" "PV SPOTTING" "MENSTRUAL" & "BLEED" but not "HEAVY")
Pelvic pain	"PELVIC PAIN" "ABDO PAIN" "SUPRAPUBIC" "SUPRA PUBIC" "PELVIC" & ("PAIN" "CRAMP" "ACHE" "DISCOM") "ABDO" & ("PAIN" "CRAMP" "ACHE" "DISCOMFORT") "PUBIC" & ("PAIN" "CRAMP" "ACHE" "DISCOMFORT") "BACK" & ("PAIN" "CRAMP" "ACHE" "DISCOMFORT")
Fatigue	"FATIGUE" "TIREDNESS" "LETHARGY"
Dysuria	"DYSURIA" "PAIN" & ("URINATION" "URINARY") "DISCOMFORT" & ("URINATION" "URINARY") "BURN" & "URIN"
Dyspareunia	"DYSPAR" "SEX" & ("PAIN" "DISCOMFORT") "COIT" & ("PAIN" "DISCOMFORT") "INTERCO" & ("PAIN" "DISCOMFORT")
Infertility	"INFERTIL" "FERTILITY PROB" "FERTILITY – IMP" "SUBFERTILITY" "FERTILITY ISS" "IMPAIRED FERT" "IN VITRO FERT" "IN-VITRO FERT" "IN-VITRO-FERT" "ANOVULAT"

Symptoms	Search terms*
	"IVF" "INABILITY TO CONCEIVE"
Bowel	"DYSCHESIA" "DYSCHYZIA" "IRRITABLE BOWEL" "IBS" "BOWEL HABIT" "BLOATING" "DEFECAT" & "PAIN" "DEFAECAT" & "PAIN"
Medical imaging	
Ultrasound	"ULTRASO" "ULTRASOUND" "ULTRASONOGRAPHY"
Magnetic resonance imaging	"MRI"
Computed tomography	"CT " "CTABD" "REPORTCT" "(CT)" "(& CT)"
X-ray	"XRAY" "X RAY" "X-RAY"

* If the word "NO" or "NOT" appeared immediately prior to search terms above, the term was excluded from being counted.

Table 2. Medications and their Anatomic Therapeutic Chemical (ATC) codes

Category	Names	Medication	ATC codes
Long-acting reversible contraceptives	Levonorgestrel intrauterine device	Levonorgestrel	G02BA03
	Etonogestrel implant	Etonogestrel	G03AC08
Short-acting reversible contraceptives	Combined hormonal contraceptives	Monophasic combinations	G03AA
		Drospirenone with ethinylestradiol	
		Levonorgestrel with ethinylestradiol	
		Norethindrone and ethinyl estradiol	
		Desogestrel with ethinylestradiol	
		Drospirenone and ethinylestradiol	
		Levonorgestrel and ethinylestradiol	
		Norgesteril and ethinylestradiol	
		Drospirenone and estetrol	
		Nomegestrol and estradiol	
		Cyproterone with ethinylestradiol	G03HB01
		Multiphasic combinations	G03AB
		Dienogest and estradiol	
		Norethindrone and ethinylestradiol	
		Desogestrel and ethinylestradiol	
		Levonorgestrel and ethinyl estradiol	
	Progestogen only pills	Norethisterone	G03AC01
		Drospirenone	G03AC10
		Levonorgestrel	G03AC03
		Norethisterone	G03AC06
Other hormonal medications	Depot Injection	Medroxyprogesterone (Suspension)	G03AC06
	Vaginal Ring	Etonogestrel and ethinylestradiol	G02BB01
	Progestogens	Dienogest	G03DB08
		Norethisterone	G03DC02
		Medroxyprogesterone	G03DA02
		Progesterone	G03DA04
Medication for bleeding control	Antifibrinolytics	Tranexamic acid	B02AA02
Analgesics	Non-steroidal anti-inflammatory drugs	Non-Selective COX-2 Inhibitors: Mefenamic acid, Diclofenac, Naproxen, Ibuprofen, Indomethacin, Piroxicam, Ketoprofen, Ketorolac, Sulindac Selective COX-2 Inhibitors: Meloxicam, Celecoxib, Rofecoxib, Etoricoxib, Lumiracoxib	M01A (ex: M01AX05) Oxicams (M01AC) Coxibs (M01AH)
	Opioids	Codeine Tablets	R05DA04T
		Oxycodone, Pethidine, Fentanyl, Dextropropoxyphene, Buprenorphine, Tramadol, Morphine, Tapentadol	N02AA
		Codeine+Paracetamol,	N02AJ06
		Codeine+Ibuprofen	N02AJ08
		Codeine+non-opioid analgesics (+doxylamine)	N02AJ09
Neuropathic pain	Gabapentinoids	Pregabalin	N03AX16
		Gabapentin	N03AX12
	Tricyclic antidepressants	Amitriptyline, Nortriptyline, Doxepin, Dosulepin	N06AA

Figure 1. Study cohort selection flow diagram

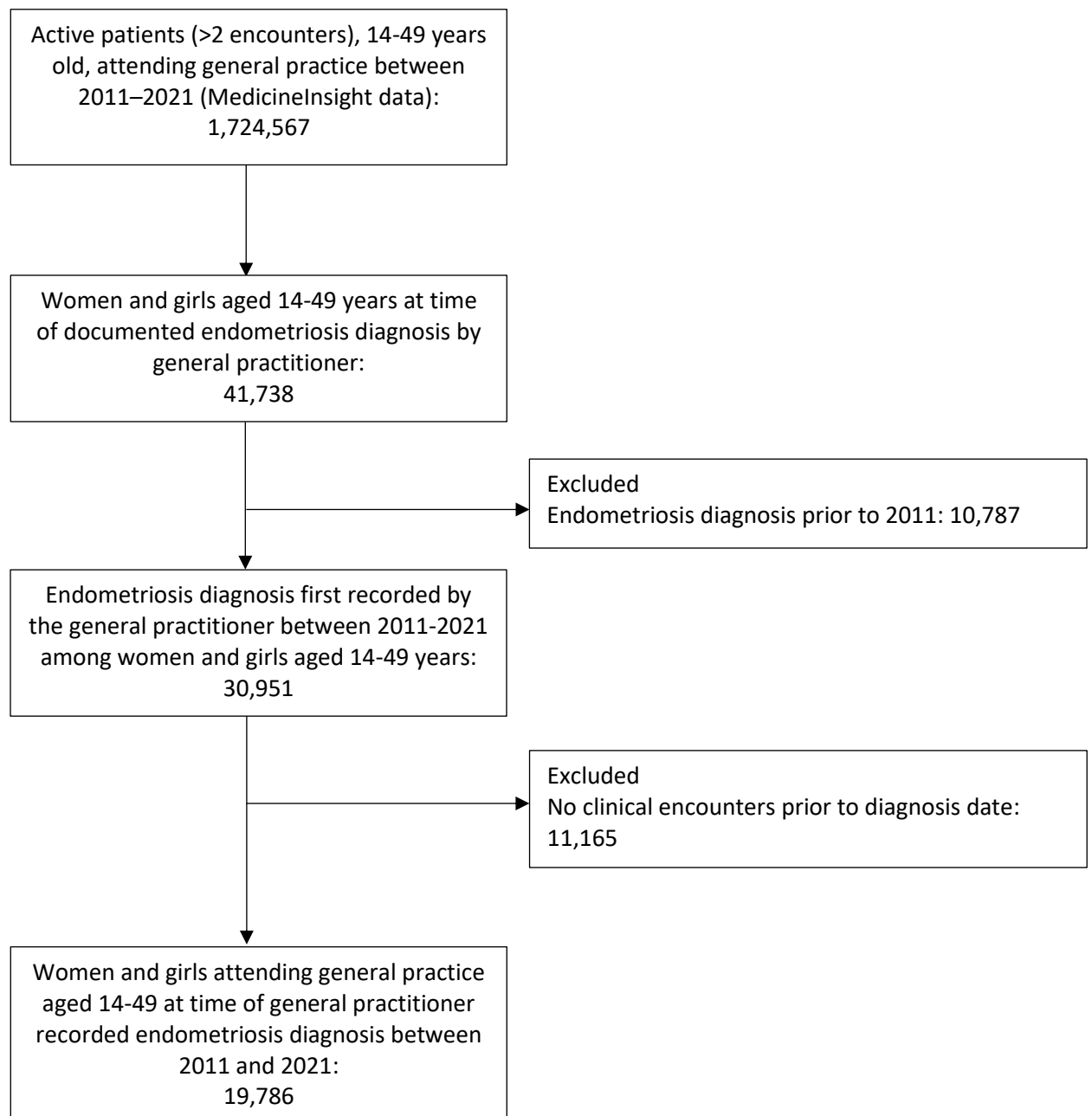


Table 3. Numbers and proportions of women attending MedicineInsight general practices (active patients) who were diagnosed with endometriosis, 2011–2021, by age group

Year	Age group (years)	Women with endometriosis diagnoses	Women who were active patients	Proportion
2011	14-19	154	66843	0.23%
2011	20-24	530	65311	0.81%
2011	25-29	1064	67816	1.57%
2011	30-34	1463	67520	2.17%
2011	35-39	1944	71625	2.71%
2011	40-44	1945	74531	2.61%
2011	45-49	1569	65762	2.39%
2012	14-19	179	71592	0.25%
2012	20-24	634	73845	0.86%
2012	25-29	1178	77336	1.52%
2012	30-34	1631	76549	2.13%
2012	35-39	2123	76417	2.78%
2012	40-44	2308	82581	2.79%
2012	45-49	1774	74008	2.40%
2013	14-19	185	74849	0.25%
2013	20-24	750	79600	0.94%
2013	25-29	1308	83533	1.57%
2013	30-34	1820	83628	2.18%
2013	35-39	2241	79956	2.80%
2013	40-44	2604	86598	3.01%
2013	45-49	2007	78530	2.56%
2014	14-19	196	77133	0.25%
2014	20-24	877	83939	1.04%
2014	25-29	1431	88791	1.61%
2014	30-34	1915	90408	2.12%
2014	35-39	2406	82892	2.90%
2014	40-44	2806	89368	3.14%
2014	45-49	2216	82513	2.69%
2015	14-19	211	80367	0.26%
2015	20-24	950	88731	1.07%
2015	25-29	1627	94562	1.72%
2015	30-34	2163	97261	2.22%
2015	35-39	2526	87481	2.89%
2015	40-44	2889	90942	3.18%
2015	45-49	2392	86744	2.76%
2016	14-19	242	82294	0.29%
2016	20-24	1076	91206	1.18%
2016	25-29	1781	97250	1.83%
2016	30-34	2418	101334	2.39%
2016	35-39	2721	91640	2.97%
2016	40-44	2949	90165	3.27%
2016	45-49	2694	91126	2.96%
2017	14-19	262	83756	0.31%

Year	Age group (years)	Women with endometriosis diagnoses	Women who were active patients	Proportion
2017	20-24	1191	93660	1.27%
2017	25-29	1954	100240	1.95%
2017	30-34	2644	104705	2.53%
2017	35-39	2867	95729	2.99%
2017	40-44	3107	89972	3.45%
2017	45-49	3007	94526	3.18%
2018	14-19	297	83103	0.36%
2018	20-24	1312	93042	1.41%
2018	25-29	2158	101627	2.12%
2018	30-34	2832	106284	2.66%
2018	35-39	3196	99247	3.22%
2018	40-44	3280	89933	3.65%
2018	45-49	3205	94980	3.37%
2019	14-19	309	81807	0.38%
2019	20-24	1414	90943	1.55%
2019	25-29	2382	100295	2.37%
2019	30-34	3026	105353	2.87%
2019	35-39	3420	101234	3.38%
2019	40-44	3345	89446	3.74%
2019	45-49	3417	94527	3.61%
2020	14-19	329	76111	0.43%
2020	20-24	1433	82943	1.73%
2020	25-29	2497	92436	2.70%
2020	30-34	3078	98246	3.13%
2020	35-39	3480	95746	3.63%
2020	40-44	3403	84075	4.05%
2020	45-49	3445	87186	3.95%
2021	14-19	327	76791	0.43%
2021	20-24	1510	80802	1.87%
2021	25-29	2647	90993	2.91%
2021	30-34	3296	98177	3.36%
2021	35-39	3664	97868	3.74%
2021	40-44	3512	87194	4.03%
2021	45-49	3410	86681	3.93%

Figure 2. Pelvic medical imaging requested for 19 786 women aged 14-49 years by general practitioners during the five years preceding endometriosis diagnosis, MedicineInsight general practices, 2011–2021

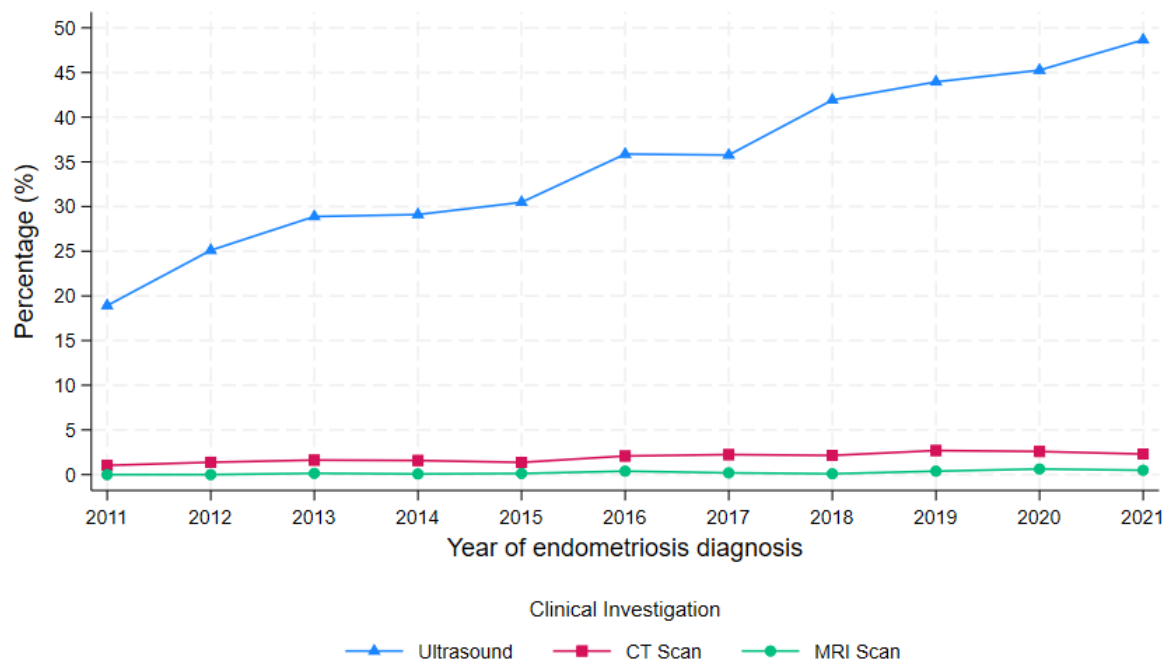


Figure 3. Hormonal contraceptives prescribed by general practitioners for 19,786 women aged 14–49 years during the five years preceding and the five years after endometriosis diagnosis, MedicineInsight general practices, 2011–2021

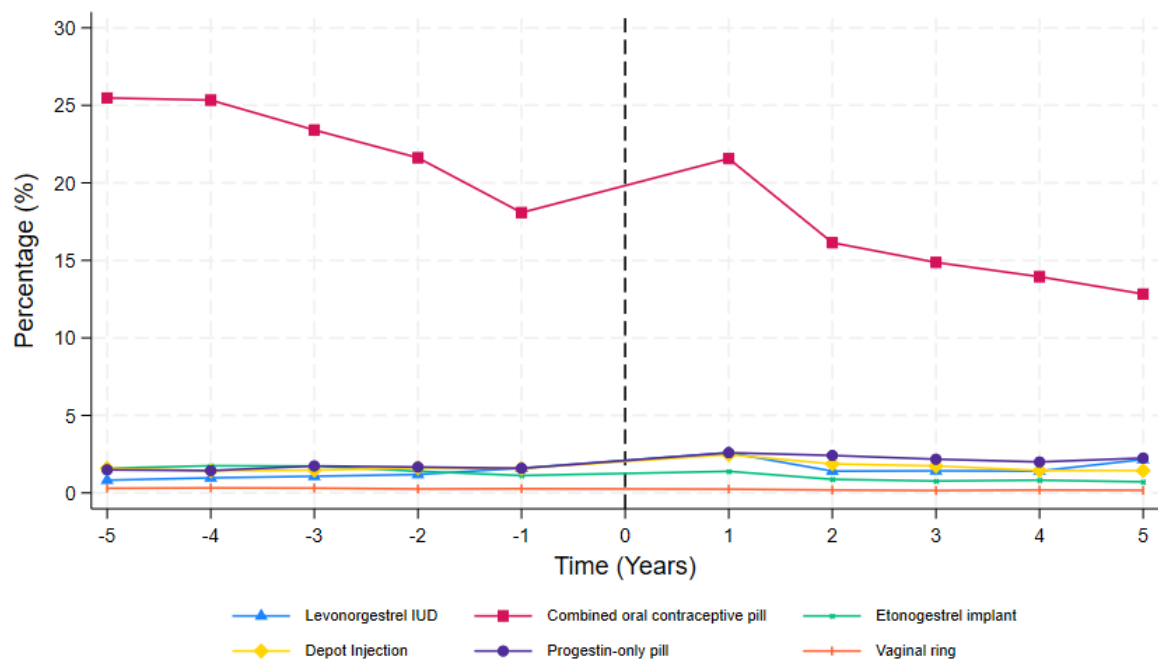


Figure 4. Progestogen and tranexamic acid medications prescribed by general practitioners for 19,786 women aged 14–49 years during the five years preceding and the five years after endometriosis diagnosis, MedicineInsight general practices, 2011–2021

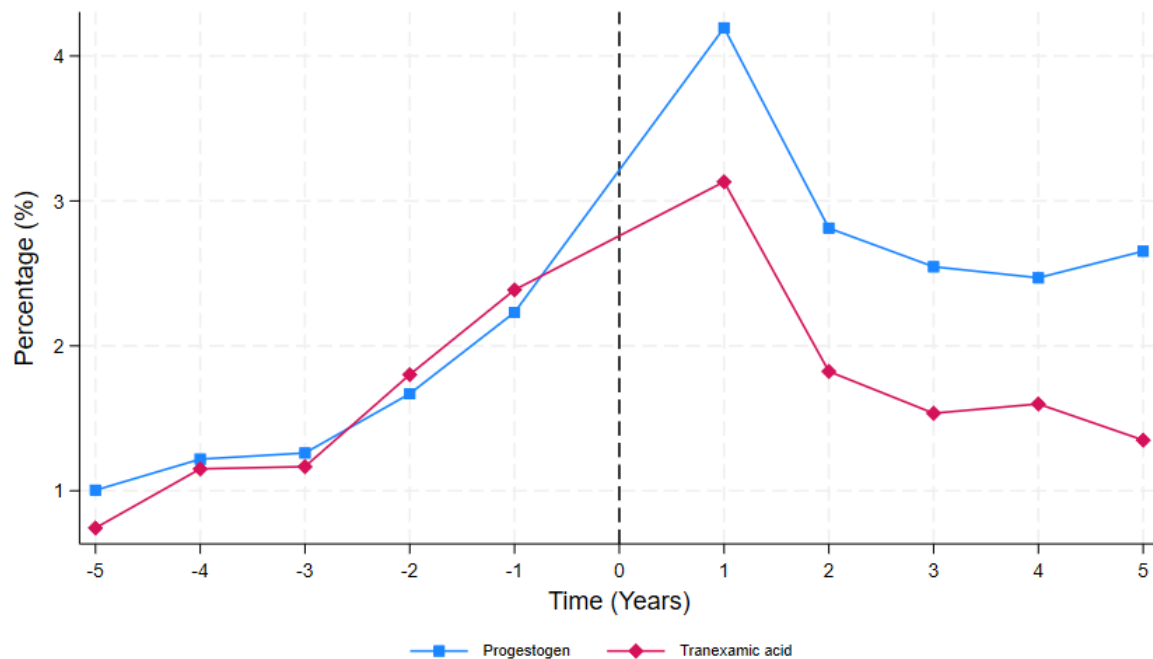


Figure 5. Pain medications prescribed by general practitioners for 19,786 women aged 14–49 years during the five years preceding and the five years after endometriosis diagnosis, MedicineInsight general practices, 2011–2021

