

Supplementary Table 1. The Number and Proportion of Missing data in Study Variables

Characteristics	Prevalent dataset		Incident dataset	
	Cases	Non-cases	Cases	Non-cases
	(N=8539)	(N=25376)	(N=628)	(N=5540)
Age	0 (0)	0 (0)	0 (0)	0 (0)
Height	2321 (27. 18)	5827 (22. 96)	253 (40. 29)	1845 (33. 3)
Weight	2330 (27. 29)	5840 (23. 01)	253 (40. 29)	1845 (33. 3)
BMI	2330 (27. 29)	5847 (23. 04)	253 (40. 29)	1847 (33. 34)
SBP	2178 (25. 51)	5405 (21. 3)	241 (38. 38)	1743 (31. 46)
DBP	2178 (25. 51)	5404 (21. 3)	241 (38. 38)	1743 (31. 46)
FBG	1006 (11. 78)	2772 (10. 92)	90 (14. 33)	761 (13. 74)
TC	1119 (13. 1)	4508 (17. 76)	107 (17. 04)	1186 (21. 41)
TG	1190 (13. 94)	4717 (18. 59)	109 (17. 36)	1207 (21. 79)
LDL-C	1192 (13. 96)	4721 (18. 6)	110 (17. 52)	1207 (21. 79)
HDL-C	1191 (13. 95)	4717 (18. 59)	109 (17. 36)	1207 (21. 79)

BMI =body mass index, SBP =systolic blood pressure, DBP =diastolic blood pressure, FBG=fasting blood glucose, TC= total cholesterol, TG= triglycerides, WC =waist circumference,HDL-c = high-density lipoprotein cholesterol, LDL-c =low-density lipoprotein cholesterol.

Supplementary Table 2. Comparison of age composition between the health checkup population and the seventh population census

age	Census population	Census population pi(%)	Health Checkup Population	Health Checkup Population Si(%)	$(S_i - P_i)^2 / P_i$
15-19	33630797	5.9	2310	2.97	1.46
20-24	35265680	6.19	4952	6.36	0
25-29	43685062	7.67	8405	10.8	1.28
30-34	60273382	10.58	8846	11.36	0.06
35-39	48080895	8.44	6972	8.96	0.03
40-44	45322636	7.96	6317	8.12	0
45-49	56033201	9.84	13186	16.94	5.12
50-54	60058826	10.54	9011	11.58	0.1
55-59	50584760	8.88	5671	7.29	0.28
60-64	36511813	6.41	4455	5.72	0.07
65-69	37667637	6.61	3495	4.49	0.68
70-74	25427303	4.46	2092	2.69	0.7
75-79	16486416	2.89	1205	1.55	0.62
80 years and over	20543563	3.61	919	1.18	1.64
χ^2	/	/	/	/	12.04
<i>P</i>	/	/	/	/	>0.5

Supplementary Table 3. Items of imaging changes associated with UFs and annual constituent ratio of prevalent cases, 2017–2020

		No. (%) of prevalent cases				
		2017	2018	2019	2020	All periods
		N(%)	N(%)	N(%)	N(%)	N(%)
Potential uterine fibroids		650(68.49)	2313(69.84)	2969(74.19)	3142(74.05)	5934(69.49)
Num	imaging changes associated with UFs					
1	Uterine enlargement and Hypoechoic nodules/masses in the uterine wall	0	3(0.09)	1(0.02)	1(0.02)	4(0.05)
2	Hypoechoic nodules/masses in the uterine wall	280(29.50)	949(28.65)	974(24.34)	1035(24.39)	2464(28.86)
3	Hypoechoic nodules/masses of uterine	4(0.42)	1(0.03)	2(0.05)	3(0.07)	8(0.09)
4	Hypoechoic nodules/masses in the uterine cervix	2(0.21)	8(0.24)	9(0.22)	11(0.26)	20(0.23)
5	Hypoechoic nodules/masses on the lateral side of the uterus	0	0	1(0.02)	1(0.02)	2(0.02)
6	Isoechogenic nodules/masses in the uterine wall	2(0.21)	2(0.06)	4(0.1)	4(0.09)	10()
7	Enlarged uterus with heterogeneous and hypoechoic nodules	0	1(0.03)	1(0.02)	0	2(0.02)
8	Hypoechoic nodules in the anterior/posterior wall of the uterine cervix	1(0.11)	1(0.03)	0	0	2(0.02)

9	Isoechogenic nodule on the right side of the uterine cervix	0	0	1(0.02)	0	1(0.01)
10	Hypoechoic nodule between the anterior wall of the uterus and the bladder wall	0	0	0	1(0.02)	1(0.01)
11	Nodules in the uterine wall	0	2(0.06)	1(0.02)	0	3(0.04)
12	Hyperechoic masses/nodules in the uterine wall	9(0.95)	30(0.91)	34(0.85)	38(0.9)	78(0.91)
13	Heterogeneous hyperechoic mass in the uterine wall	0	1(0.03)	0	0	1(0.01)
14	Heterogeneous of the uterine wall with hypoechoic nodules/masses	1(0.11)	0	1(0.02)	2(0.05)	2(0.02)
15	Heterogeneous hypoechoic nodules in the uterine wall	0	1(0.03)	2(0.05)	3(0.07)	4(0.05)
16	Hypodense lesion or shadow of the uterus	0	0	2(0.05)	2(0.05)	3(0.04)
17	Abnormal echogenicity with slightly hypoechoic nodules of uterine wall	0	0	0	0	0
Total /		949(100)	3312(100)	4002(100)	4243(100)	8539(100)

Supplementary Table 4. Age group-stratified annual prevalence of UF-associated imaging changes, 2017–2020

Years	15–19	20–24	25–29	30–34	35–39	40–44	45–49	50–54	≥55	15–49	Total
	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)
2017	0 (0)	0 (0)	18 (4.99)	38 (9.45)	80 (20.30)	246 (43.54)	293 (46.81)	177 (43.49)	97 (19.56)	675 (26.67)	949 (27.64)
2018	0 (0)	5 (0.92)	49 (3.96)	131 (8.71)	320 (20.74)	733 (37.76)	1006 (44.99)	663 (41.94)	405 (19.90)	2244 (24.82)	3312 (26.17)
2019	0 (0)	6 (0.95)	67 (4.24)	175 (9.03)	338 (20.22)	832 (39.41)	1274 (47.31)	789 (43.54)	521 (23.81)	2692 (25.23)	4002 (27.28)
2020	0 (0)	3 (0.47)	63 (3.83)	218 (9.86)	342 (20.80)	734 (38.57)	1284 (49.40)	898 (47.54)	701 (27.87)	2644 (24.78)	4243 (28.15)
All periods	0 (0)	12 (0.68)	147 (3.88)	418 (9.54)	752 (20.46)	1807 (38.60)	2518 (45.38)	1754 (41.10)	1131 (19.89)	5654 (23.60)	8539 (25.18)

P for trend <0.0001 for all.