

Supplementary Data

Title of the manuscript: “Occupation and mammographic density: a population-based study (DDM-Occup)”.

This document is available as supplementary data for inclusion as online documentation. It includes:

- a) Table S1, showing the characteristics and mammographic density among excluded women.
- b) Table S2, showing the p -values adjusted by multiple comparisons associated to the analysis of the association between occupation and mammographic density.

Supplementary Data, Table S1: Main characteristics and mammographic density among excluded women.

Characteristic	Excluded women (n=1833)	Mammographic density (%)
	n (%)	Geometric mean (95%CI)
Screening center (city)		
Corunna	318 (17.4)	14.4 (13.0-16.0)
Barcelona	275 (15.0)	8.2 (7.3-9.2)
Burgos	233 (12.7)	22.2 (19.8-24.9)
Palma	262 (14.3)	12.4 (11.0-14.0)
Pamplona	241 (13.1)	22.5 (20.0-25.3)
Zaragoza	288 (15.7)	12.9 (11.6-14.4)
Valencia	214 (11.7)	12.0 (10.6-13.6)
Missing	2 (0.1)	-
Professional reader		
Reader 1	736 (40.2)	18.1 (16.9-19.4)
Reader 2	1097 (59.8)	11.7 (11.1-12.4)
Age (years)		
<50	147 (8.0)	26.3 (22.3-31.1)
50-54	392 (21.4)	17.2 (15.6-18.9)
55-59	528 (28.8)	13.2 (12.1-14.3)
≥60	764 (41.7)	11.6 (10.8-12.4)
Missing	2 (0.1)	-
Body mass index (kg/m ²)		
<20	33 (1.8)	39.4 (32.2-48.2)
20-24	411 (22.4)	24.4 (22.6-26.5)
25-29	777 (42.4)	14.7 (13.8-15.6)
≥30	608 (33.2)	8.5 (7.9-9.2)
Missing	4 (0.2)	-
Menopausal status		
Pre/perimenopausal women	270 (14.7)	22.0 (19.6-24.8)
Postmenopausal women	1561 (85.2)	12.9 (12.3-13.6)
Missing	2 (0.1)	-
Parity		
Nulliparous	107 (5.8)	20.0 (16.5-24.3)
1-2	1132 (61.8)	15.2 (14.4-16.1)
3-4	534 (29.1)	11.5 (10.5-12.6)
>4	58 (3.2)	8.0 (6.3-10.1)
Missing	2 (0.1)	-
Smoking		
Never smoker	1230 (67.1)	12.9 (12.2-13.7)
Former smoker >6 months	267 (14.6)	15.9 (14.0-18.0)
Current	334 (18.2)	16.8 (15.1-18.7)
Missing	2 (0.1)	-
Alcohol intake (gr/day)		
0	836 (45.6)	13.2 (12.4-14.2)
<10	656 (35.8)	13.7 (12.7-14.8)
≥10	321 (17.5)	16.5 (14.8-18.4)
Missing	20 (1.1)	-
Educational level		
No formal school education/First grade	767 (41.8)	11.9 (11.1-12.8)
Second grade/Vocational training	970 (52.9)	15.6 (14.7-16.6)
University graduate	89 (4.9)	16.5 (13.3-20.5)
Missing	7 (0.4)	-
Type of mamography		
Analogical	1010 (55.1)	17.6 (16.6-18.7)
Digital	732 (39.9)	10.5 (9.8-11.3)
Printed and scanned	91 (5.0)	10.8 (9.2-12.6)
First-degree relative with breast cancer		
No	1705 (93.0)	13.9 (13.3-14.6)
Yes	126 (6.9)	15.1 (12.5-18.2)
Missing	2 (0.1)	-
Hormonal replacement therapy use		
Never	1629 (88.9)	13.7 (13.1-14.4)
Current use	44 (2.4)	19.8 (15.2-25.8)
Past use	158 (8.6)	15.1 (13.2-17.2)
Missing	2 (0.1)	-

Supplementary Data, Table S2: *p*-values adjusted by multiple comparisons associated to the analysis of the association between occupation and mammographic density.

Occupation ^a	<i>p</i> -value ^b	<i>p</i> -BH ^c
Sector 1: Managing and civil services directors	0.910	0.910
11 Managing directors with 10 or more salary earners	0.280	0.863
113 Managing of specialized areas and departments	0.174	0.582
12 Management of trade with less than 10 salary earners	0.539	0.863
122 Management of retail trade with less than 10 salary earners	0.421	0.734
14 Management of other companies with less than 10 salary earners	0.491	0.863
15 Management of trading companies without salary earners	0.361	0.863
152 Management of retail trade with without salary earners	0.298	0.656
Sector 2: Technicians and intellectual and scientific professionals	0.048	0.384
21 Professions associated with 2nd and 3rd cycle university in health and natural sciences	0.785	0.863
22 Professions associated with 2nd and 3rd cycle university in teaching	0.088	0.863
222 Secondary school teachers	0.068	0.497
223 Other teaching professionals	0.769	0.940
24 Professionals in company organizations, professionals in the social and human sciences associated with 2nd and 3rd degree university cycle	0.620	0.863
25 Writers, artists, and other associated professionals	0.802	0.863
27 (272) Nurses ^d	0.107	0.497
28 Professions associated with a 1st cycle university in teaching	0.330	0.863
281 Elementary and children education teachers	0.434	0.734
29 Other professions associated with a 1st university cycle	0.729	0.863
Sector 3: Technicians and support professionals	0.491	0.723
30 Chemical and physical science technicians, engineering technicians	0.669	0.863
33 Support professionals in finance and business operations	0.234	0.863
332 Sales representatives and sales technicians	0.225	0.582
34 Professional support of administrative management	0.863	0.863
341 Professional support of administrative management, with general administrative tasks	0.940	0.940
Sector 4: Administrative employees	0.420	0.723
43 Administrative assistants without tasks of customer care not elsewhere classified	0.467	0.863
44 Administrative assistants with tasks of customer care not elsewhere classified	0.716	0.863
45 Employees dealing directly with the public at travel agencies, receptionists and telephone operators	0.304	0.863
452 Travel agency employees, receptionists in establishments other than offices, and telephone operators	0.846	0.940
Sector 5: Catering services workers, personal, security, and sellers of businesses	0.226	0.723
50 Catering service workers	0.417	0.863
501 Chefs and other food assistants	0.913	0.940
502 Waitresses, barmaids, and similar	0.238	0.582
51 Personal service workers	0.087	0.863
511 Nursing assistants and similar	0.468	0.735
512 Workers engaged in the care of people and similar (except nursing assistants)	0.047	0.497
513 Hairdressers, beauty treatment, and related workers	0.880	0.940
53 Sales clerks and similar	0.325	0.863
533 Sales clerks and display racks in shops, stores, kiosks, and markets	0.113	0.497
Sector 7: Craftswomen and skilled workers in manufacturing, construction, and mining, except operators of plant and machinery	0.460	0.723
77 Metal precision mechanics, graphic arts workers, potters, glassblowers and wood carvers, textile and leather craftswomen	0.860	0.863
79 (793) Workers in the textile industry, clothing, and similar ^d	0.784	0.940
Sector 8: Plant and machine operators, and assemblers	0.810	0.910
83 Stationary engine operators	0.591	0.863
836 Stationary engine operators to manufacture textile products, and leather goods	0.732	0.940
Sector 9: Unskilled workers	0.542	0.723
91 Domestic servants and other staff cleaning inside buildings	0.783	0.863
911 Housekeeping service workers	0.076	0.497
912 Cleaning of staff offices and hotels, and other related workers	0.195	0.582
92 Superintendents, window cleaners, and security wards	0.223	0.863
921 Superintendents, window cleaners, and similar	0.353	0.706
93 Other unskilled workers in other services	0.509	0.863
932 Porters	0.686	0.940

^aOccupations with ≥ 10 women.

^b*p*-value associated with hypothesis test for the mixed linear regression model.

^c*p*-value adjusted by Benjamini & Hochberg's method. In total, three different sets of adjusted *p*-values were estimated (for 1-, 2-, and 3-digit occupations).

^dThe number of women of the 2-digit occupation is the same that the 3-digit occupation.