

## Supplementary Data

Title of the manuscript: "Mammographic density in the environs of multiple industrial sources"

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

Table S1, showing information of the industries constituting the industrial clusters with significant results in the analysis of Table 2, including the PRTR code, year of commencement of operations, industrial sector, location (province and municipality), and pollutants released to air and water.

Figure S1, showing the association between MD and residential proximity to an increasing number of industrial sources, for all industries jointly, and for the sensitivity analysis with only women residing in their current residence for  $\geq 2$  years. Note that vertical axes are not in the same scale in the four graphics.

Figure S2, showing the association between MD and residential proximity to an increasing number of industrial sources, for all industries jointly, and for the sensitivity analysis with only women residing in their current residence for  $\geq 10$  years. Note that vertical axes are not in the same scale in the four graphics.

Table S1: information of the industries constituting the industrial clusters with significant results in the analysis of Table 2, including the PRTR code, year of commencement of operations, industrial sector, location (province and municipality), and pollutants released to air and water.

Cluster	PRTR code	Year <sup>a</sup>	Industrial sector <sup>b</sup>	Province	Municipality	Pollutants released to air	Pollutants released to water
10	1568	1988	2.f	Madrid	Pinto	Carbon monoxide; carbon dioxide; chromium; nickel; zinc; chlorine; TSP <sup>c</sup>	Total nitrogen; phosphorus; copper; nickel; zinc; halogenated organic compounds; TOC <sup>d</sup> ; chlorides; fluorides; COD <sup>e</sup>
10	3380	1989	9.c	Madrid	Parla	Carbon monoxide; carbon dioxide; dichloromethane; nitrogen oxides; TOC <sup>d</sup>	TOC <sup>d</sup> ; COD <sup>e</sup>
10	3496	1996	2.e	Madrid	Pinto	Carbon monoxide; carbon dioxide; copper; lead; dioxins + furans; chlorine; TSP <sup>c</sup> ; TOC <sup>d</sup>	
10	6557	1963	9.c	Madrid	Pinto	Carbon monoxide; carbon dioxide; TOC <sup>d</sup>	Total nitrogen; phosphorus; copper; mercury; nickel; lead; zinc; TOC <sup>d</sup> ; naphthalene; phenols; PAHs <sup>f</sup> ; chlorides; fluorides; COD <sup>e</sup>
10	6563	1998	2.f	Madrid	Pinto	Chlorine	Total nitrogen; chromium; copper; nickel; halogenated organic compounds; naphthalene; toluene; chlorides; phosphorus; zinc; trichloromethane; TOC <sup>d</sup> ; cyanides; fluorides; COD <sup>e</sup>
18	1643	1978	5.e	Madrid	Arganda del Rey	Methane; carbon monoxide; carbon dioxide; ammonia; NMVOC <sup>g</sup> ; nitrogen oxides; sulfur oxides; dioxins + furans; PAHs <sup>f</sup> ; PM <sub>10</sub> <sup>h</sup>	Nitrogen; phosphorus; dioxins + furans; chlorides; TOC <sup>d</sup> ; COD <sup>e</sup>
18	1678	1986	5.a	Madrid	Arganda del Rey	Methane; carbon monoxide; carbon dioxide; nitrogen oxides; sulfur oxides; dichloromethane; tetrachloroethylene; trichloroethylene; PAHs <sup>f</sup> ; TSP <sup>c</sup> ; TOC <sup>d</sup> ;	TOC <sup>d</sup> ; COD <sup>e</sup>
18	2032	1997	5.a	Madrid	Arganda del Rey	Carbon monoxide; carbon dioxide; nitrogen oxides	Total nitrogen; phosphorus; mercury; TOC <sup>d</sup> ; COD <sup>e</sup>
18	3337	1986	2.f	Madrid	Arganda del Rey		Total nitrogen; arsenic; chromium; nickel; zinc; halogenated organic compounds; phenols; TOC <sup>d</sup> ; chlorides; fluorides; COD <sup>e</sup>
18	3389	1987	2.f	Madrid	Arganda del Rey	TSP <sup>c</sup> ; TOC <sup>d</sup>	total nitrogen; phosphorus; chromium; copper; nickel; zinc; TOC <sup>d</sup> ; chlorides; cyanides; fluorides; COD <sup>e</sup>
18	4195	1975	2.f	Madrid	Arganda del Rey	Carbon monoxide; carbon dioxide; NMVOC <sup>g</sup> ; nitrogen oxides; chromium; mercury; tetrachloroethylene; chlorine; TSP <sup>c</sup> ; TOC <sup>d</sup>	Total nitrogen; chromium; mercury; halogenated organic compounds; chlorides; phosphorus; TOC <sup>d</sup> ; COD <sup>e</sup>
18	6717	1987	5.f	Madrid	Arganda del Rey	Methane; carbon monoxide; carbon dioxide; nitrous oxide; nitrogen oxides; sulfur oxides; TSP <sup>c</sup>	Phosphorus; TOC <sup>d</sup>
19	1651	1980	4.b	Madrid	Mejorada del Campo	Ammonia	Total nitrogen; TOC <sup>d</sup> ; chlorides; COD <sup>e</sup> ; halogenated organic compounds
19	3507	1996	2.f	Madrid	Mejorada del Campo		Total nitrogen; copper; zinc; halogenated organic compounds; phenols; TOC <sup>d</sup> ; chlorides; fluorides; COD <sup>e</sup>
19	5967	1979	2.f	Madrid	Mejorada del Campo	Ammonia; copper; nickel; lead; TOC <sup>d</sup> ; chlorine; TSP <sup>c</sup> ; manganese	Total nitrogen; phosphorus; copper; halogenated organic compounds; ethylbenzene; TOC <sup>d</sup> ; xylenes; chlorides; COD <sup>e</sup>
20	1662	1984	3.c	Madrid	Arganda del Rey	Carbon monoxide; carbon dioxide; nitrogen oxides; sulfur oxides; PM <sub>10</sub> <sup>h</sup> ; chromium; copper; mercury; nickel; lead; dioxins + furans; TSP <sup>c</sup> ; manganese; vanadium	
48	5437	1987	2.f	Madrid	Pinto	Carbon monoxide; nitrogen oxides; sulfur oxides; TOC <sup>d</sup> ; TSP <sup>c</sup>	Total nitrogen; phosphorus; copper; zinc; halogenated organic compounds; chlorides
48	7736	1963	2.c.iii	Madrid	Getafe	Carbon monoxide; carbon dioxide; nitrogen oxides; mercury; lead; zinc	Total nitrogen; zinc; TOC <sup>d</sup> ; chlorides
52	6553	1985	8.a	Madrid	Collado Villalba	Methane; carbon monoxide; carbon dioxide; nitrous oxide; ammonia; NMVOC <sup>g</sup> ; nitrogen oxides; sulfur oxides; arsenic; cadmium; mercury; nickel; PM <sub>10</sub> <sup>h</sup> ; chromium; dioxins + furans	Total nitrogen; phosphorus; TOC <sup>d</sup> ; chlorides; COD <sup>e</sup>
52	6558	1960	2.c.i	Madrid	Collado Villalba	Carbon dioxide; ammonia; nitrogen oxides; TSP <sup>c</sup> ; carbon monoxide; sulfur oxides; PM <sub>10</sub> <sup>h</sup> ; TOC <sup>d</sup>	Total nitrogen; zinc; TOC <sup>d</sup> ; fluorides; COD <sup>e</sup> ; phosphorus; halogenated organic compounds; chlorides; cyanides
52	6729	1987	5.f	Madrid	Collado Villalba	Methane; carbon monoxide; carbon dioxide; nitrous oxide; nitrogen oxides; sulfur oxides; TSP <sup>c</sup>	Phosphorus; TOC <sup>d</sup>

<sup>a</sup> Year of commencement of operations.

<sup>b</sup> 2.c.i, 2.e: production and processing of metals; 2.c.iii: galvanization; 2.f: surface treatment of metals and plastic; 3.c: cement and lime; 4.b: inorganic chemical industry; 5.a: hazardous waste; 5.e: disposal or recycling of animal waste; 5.f: urban waste-treatment treatment plants; 8.a: food and beverage sector; 9.c: surface treatment using organic solvents.

<sup>c</sup> Total suspended particulate matter.

<sup>d</sup> Total organic carbon.

<sup>e</sup> Chemical oxygen demand.

<sup>f</sup> Polycyclic aromatic hydrocarbons.

<sup>g</sup> Non-methane volatile organic compounds.

<sup>h</sup> Particulate matter with a diameter between 2.5 and 10 µm.

Figure S1: association between MD and residential proximity to an increasing number of industrial sources, for all industries jointly, and for the sensitivity analysis with only women residing in their current residence for  $\geq 2$  years. Note that vertical axes are not in the same scale in the four graphics.

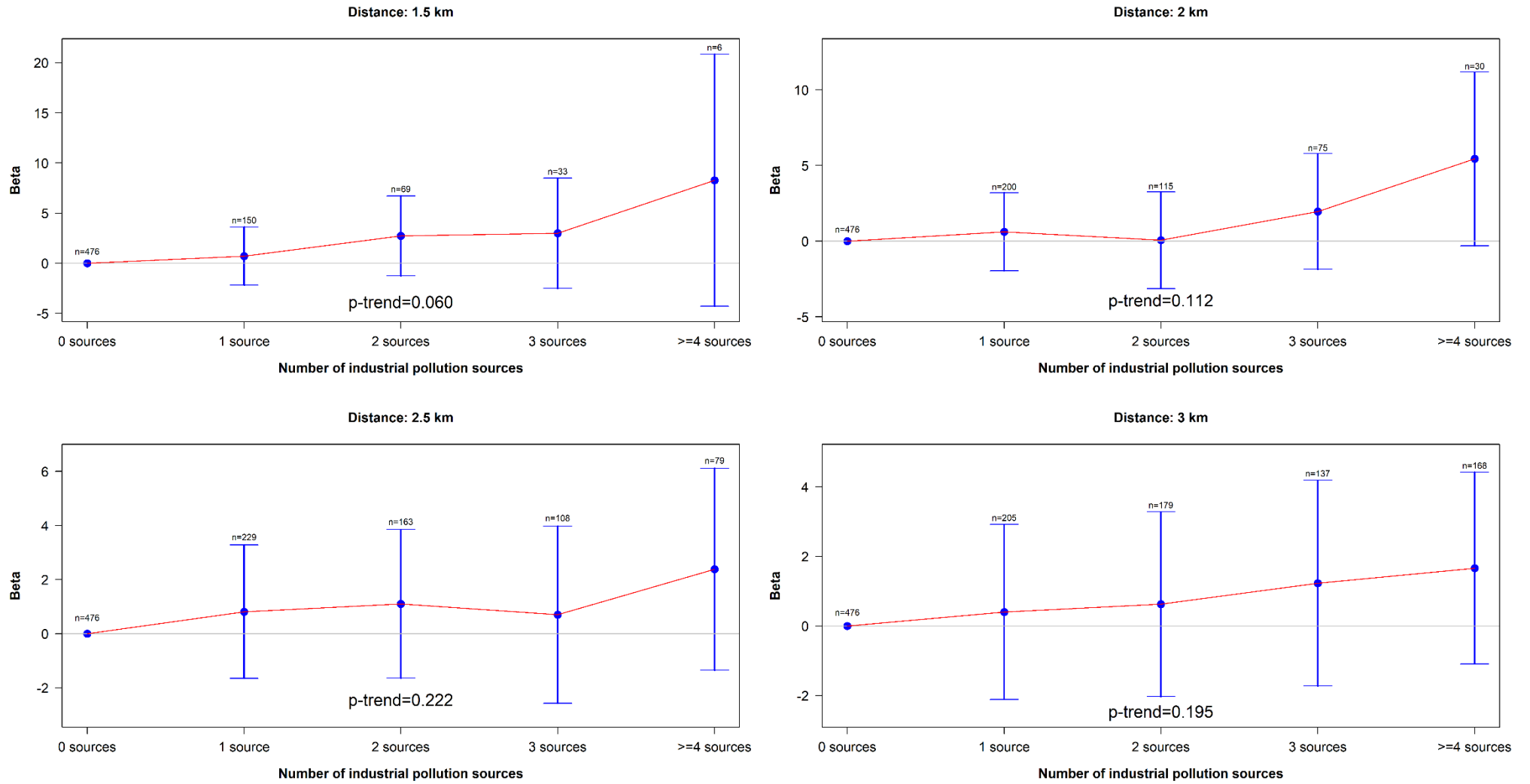


Figure S2: association between MD and residential proximity to an increasing number of industrial sources, for all industries jointly, and for the sensitivity analysis with only women residing in their current residence for  $\geq 10$  years. Note that vertical axes are not in the same scale in the four graphics.

