

Appendices

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Appendix 1. Detailed search strategy according to electronic databases

MEDLINE

Outcome	Exposure	Phenomenon
(multimorb\$ or multi?morb\$ or multiple chronic conditions\$ or multiple chronic diseases\$).ti.	Psychosocial Deprivation* .ti. OR OR exp Family characteristics/ OR exp Hierarchy, Social/ OR Social Hierarch* .ti. OR Minority Group* .ti. OR exp Social Class/ OR Social class* .ti. OR Social Mobilit* .ti. OR Caste* .ti. OR Social Condition* .ti. OR exp Sociology/ OR Poverty .ti. OR exp Socioeconomic Factors/ OR Socioeconomic* .ti. OR Salary .ti. OR Salaries .ti. OR Income* .ti. OR Wage* .ti. OR Remuneration* .ti. OR Occupation* .ti. OR Unemploy* .ti. OR Labour* .ti. OR	Inequalit*.ab. OR Unequal*.ab. OR Disparit* .ab. OR Inequit* .ab. OR Difference* .ab. OR Different*.ab. OR Discriminat* .ab. OR Marginali*.ab OR Marginali*.ti OR Depriv* .ab. OR Inequalit*.ti. OR Disparit* .ti. OR Inequit* .ti. OR Difference* .ti. OR Discriminat* .ti. OR Depriv* .ti. OR Disadvantage*.ti. OR Disadvantage*.ab. OR Vulnerab*.ab OR Vulnerab*.ti.

	<p>Labor* .ti. OR</p> <p>Employment* .ti OR</p> <p>Employment* .ab OR</p> <p>Educational Status.ti. OR</p> <p>Educational Achievement*.ti. OR</p> <p>Educational level*.ti OR</p> <p>Educational level*.ab OR</p> <p>Educational attainment .ti OR</p> <p>Educational attainment .ab OR</p> <p>exp Ethnic Groups/ OR</p> <p>Ethnic* .ti. OR</p> <p>Race* .ti. OR</p> <p>Raci* .ti. OR</p> <p>exp Sexism/ OR</p> <p>Sexis* .ti. OR</p> <p>exp Gender Identity/ OR</p> <p>Gender* .ti. OR</p> <p>Social Capital* .ti. OR</p> <p>Neomaterial* .ti. OR</p> <p>Social Cohesi* .ti. OR</p> <p>Materalis* .ti. OR</p> <p>Psychosocial Deprivation* .ab. OR</p> <p>Social Hierarch* .ab. OR</p> <p>Minority Group* .ab. OR</p>	
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	<p>Social class* .ab. OR</p> <p>Social Mobilit* .ab. OR</p> <p>Caste* .ab. OR</p> <p>Social Condition* .ab. OR</p> <p>Poverty .ab. OR</p> <p>Socioeconomic* .ab. OR</p> <p>Salary .ab. OR</p> <p>Salaries .ab. OR</p> <p>Income* .ab. OR</p> <p>Wage* .ab. OR</p> <p>Remuneration* .ab. OR</p> <p>Occupation* .ab. OR</p> <p>Unemploy* .ab. OR</p> <p>Labour* .ab. OR</p> <p>Labor* .ab. OR</p> <p>Educational Status.ab. OR</p> <p>Educational Achievement* .ab. OR</p> <p>Ethnic* .ab. OR</p> <p>Race* .ab. OR</p> <p>Raci* .ab. OR</p> <p>Sexis* .ab. OR</p> <p>Gender* .ab. OR</p> <p>Social Capital* .ab. OR</p> <p>Neomaterial* .ab. OR</p> <p>Social Cohesi* .ab. OR</p>	
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	Materialis* .ab. OR Neomaterial* .ab.	
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WEB OF SCIENCE

Outcome	Exposure	Phenomenon
TS = (multimorb* OR multi-morb* OR “multiple chronic condition*” OR “multiple chronic disease**”)	TS = (“Psychosocial Deprivation*” OR “Family characteristics” OR “Social Hierarch*” OR “Minority Group*” OR “Social Class” OR “Social Mobilit*” OR Caste* OR “Social Condition*” OR Sociology OR Poverty. OR “Socioeconomic Factors” OR Socioeconomic* OR Salary OR Salaries OR Income* OR Wage* OR Remuneration* OR Occupation* OR Unemploy* OR Labour* OR Labor* OR Employment* OR Employment* OR “Educational Status” OR	TS = (Inequalit* OR Unequal* OR Disparit* OR Inequit* OR Difference* OR Different* OR Discriminat* OR Marginali* OR Depriv* OR Disadvantage* OR Vulnerab*)

	“Educational Achievement*” OR “Educational level*” OR “Educational attainment” OR “Ethnic Groups” OR Ethnic* OR Race* OR Raci* OR Sexism OR Saxis* OR “Gender Identity” OR Gender* OR “Social Capital*” OR “Social Cohesi*” OR Materalis* OR Neomaterial* OR Materalis* OR Neomaterial*)	
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PUBMED

Outcome	Exposure	Phenomenon
multimorb*[TIAB] OR multimorbidity[MH] OR multi-morb*[TIAB] OR multiple chronic condition*[TIAB] OR multiple chronic disease*[TIAB] OR multiple chronic disease [MH]	Psychosocial Deprivation*[TIAB] OR Family characteristics [TIAB] OR Social Hierarch*[TIAB] OR Minority Group*[TIAB] OR Social Class[TIAB] OR Social Mobilit*[TIAB] OR Caste*[TIAB] OR Social Condition*[TIAB] OR Sociology[TIAB] OR Poverty [TIAB] OR Socioeconomic Factors[TIAB] OR Socioeconomic*[TIAB] OR Salary[TIAB] OR Salaries[TIAB] OR Income*[TIAB] OR Wage*[TIAB] OR Remuneration*[TIAB] OR Occupation*[TIAB] OR Unemploy*[TIAB] OR Labour*[TIAB] OR Labor*[TIAB] OR Employment*[TIAB] OR Educational Status [TIAB] OR	Inequalit*[TIAB] OR Unequal*[TIAB] OR Disparit*[TIAB] OR Inequit*[TIAB] OR Difference*[TIAB] OR Different*[TIAB] OR Discriminat*[TIAB] OR Marginali*[TIAB] OR Depriv*[TIAB] OR Disadvantage*[TIAB] OR Vulnerab*[TIAB]

	Educational Achievement*[TIAB] OR Educational level*[TIAB] OR Educational attainment [TIAB] OR Ethnic Groups[TIAB] OR Ethnic*[TIAB] OR Race*[TIAB] OR Raci*[TIAB] OR Sexism[TIAB] OR Saxis*[TIAB] OR “Gender Identity”[TIAB] OR Gender*[TIAB] OR Social Capital*[TIAB] OR Social Cohesi*[TIAB] OR Materalis*[TIAB] OR Neomaterial*[TIAB] OR Materalis*[TIAB] OR Neomaterial*[TIAB]	
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PROQUEST (Applied Social Sciences/ERIC/Humanities Index/ProQuest Central/ProQuest dissertation and Thesis Global/Sociological Abstracts)

multimorb* OR multi-morb* OR “multiple chronic condition*” OR “multiple chronic diseases*”

AND

“Psychosocial Deprivation*” OR “Family characteristics” OR “Social Hierarch*” OR “Minority Group*” OR “Social Class” OR “Social Mobilit*” OR Caste* OR “Social Condition*” OR Sociology OR Poverty. OR “Socioeconomic Factors” OR Socioeconomic* OR Salary OR Salaries OR Income* OR Wage* OR Remuneration* OR Occupation* OR

Unemploy* OR Labour* OR Labor* OR Employment* OR Employment* OR “Educational Status” OR “Educational Achievement*” OR “Educational level*” OR “Educational attainment” OR “Ethnic Groups” OR Ethnic* OR Race* OR Raci* OR Sexism OR Saxis* OR “Gender Identity” OR Gender* OR “Social Capital*” OR “Social Cohesi*” OR Materalis* OR Neomaterial* OR Materalis* OR Neomaterial*

AND

Inequalit* OR Unequal* OR Disparit* OR Inequit* OR Difference* OR Different* OR Discriminat* OR Marginali* OR Depriv* OR Disadvantage* ORVulnerab*

Appendix 2. Reasons for exclusion of studies after full-text review

Comorbidity Barnett, Mercer (1), Gallacher, McQueenie (2), Alonso-Moran, Orueta (3)

Unclear definition of multimorbidity Chau, Baumann (4), Reis-Santos, Gomes (5)

Did not explore the association between socioeconomic disadvantage and multimorbidity Charlton, Rudisill (6), Galenkamp, Gagliardi (7), Golinowska, Sowa (8), Jessen, Pallesen (9), Koroukian, Schiltz (10), Mujica-Mota, Roberts (11), Orueta, Garcia-Alvarez (12), Phaswana-Mafuya, Peltzer (13), Rodrigues, Gregorio (14), Thavorn, Maxwell (15), Tran, Kiran (16), van den Akker, Buntinx (17), Wang, Wang (18), Ward (19), Woo and Leung (20), Cassell, Edwards (21), Brinda, Attermann (22), Kone, Mondor (23)

Absence of comparative group Eakin, Bull (24), Frakes, Brownie (25), Kangovi, Mitra (26), Leiser, Deruaz-Luyetl (27), Smith, Ferede (28), von dem Knesebeck, Bickel (29)

Full-text unavailable Jantz (30), Pati and Swain (31), Russel, Grant (32), Cezard, Keenan (33), Zou, Wang (34)

Duplicate Myung, Yo Han (35), Srinivasa Vittal, Skivington (36), Aminisani, Stephens (37), Chamberlain, Rutten (38), Pati, Swain (39)

Use of the same sample Ahmadi, Alimohammadian (40), Ataguba (41), Kunna, Miguel San (42), Nunes, Thume (43), Habib, Mikati (44)

No primary data Shadmi (45)

Not in English Melo and Lima (46)

Not peer-reviewed Korea National Health & Nutrition Survey (47)

Wrong exposure Basham (48), Douglas, Vinjerui (49), Guimaraes and Andrade (50), Harrison, Britt (51)

Wrong outcome Kivimaki, Batty (52)

Wrong population Calderon-Larranaga, Marengoni (53), Carrilero, Dalmau-Bueno (54), Shang, Peng (55), Vinjerui, Boeckxstaens (56)

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