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| **Logic Grid-Keyword search terms** |
| **Population** | **AND** | **Intervention** | **AND** | **Comparison** | **AND** | **Outcome** |
| “Second hand smokers”ORSecond hand smoke[MeSH]OR“Non-smokers”OR“Nonsmokers”OR“Second hand tobacco smoking”OR“Second hand tobacco smoker”OR“Tobacco smoke exposure”**AND**Family [MeSH]ORKinOR “Family home”ORHousehold [MeSH]ORHomebasedOR Home | “Intervention study” [MeSH]OR“Educational intervention”ORCounseling\* [MeSH]OR“Counseling \*intervention”OR“Behavior\* manipulation”OR“Behavioral manipulation”[MeSH]OR“Randomi?ed controlled trial”[MeSH]OR“Nicotine replacement therapy”OR“Motivational interviewing” [MeSH]OR“Home-based\* intervention”OR“Behavioral\*counselling\*intervention”OR“Pharmacological intervention”OR“Drug therapy” [MeSH]OR““Combined Behavioural\* Counseling\*Interventions and Pharmacotherapy\*”OR“Face-to-face\* counselling\*”OR“Educational\* brochures\*”OR“coaching call”OR“Training” [MeSH] |  | “Airborne Particulate matter” [MeSH]OR“Indoor air quality”[MeSH]OR“Air quality in home”OR“Home airquality”OR“Air monitor”OR“Aerosol”OR“Aerosol monitor”OR“Air nicotine”OR“Tobacco use cessation” [MeSH]ORBiomarkers [MeSH]OR“Salivary biomarker”ORCotinine [MeSH]ORNicotine [MeSH]OR“Smoke free home\*”OR“Abstinence from tobacco\*”OR“Change in perception”OR“Smoking ban” [MeSH] |

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| **Population** | "Second hand smokers" OR Second hand smoke[MeSH] OR "Non-smokers" OR "Nonsmokers" OR "Second hand tobacco smoking" OR "Second hand tobacco smoker" OR "Tobacco smoke exposure" AND Family [MeSH] OR Kin OR "Family home" OR Household [MeSH] OR Homebased OR Home | 19,239 results |
| **Intervention** | "Intervention study" [MeSH] OR "Educational intervention" OR Counseling [MeSH] OR "Counseling intervention" OR "Behavioral manipulation" OR "Behavioral manipulation"[MeSH] OR "Nicotine replacement therapy" OR "Motivational interviewing" [MeSH] OR "Home-based intervention" OR "Behavioral counselling intervention" OR "Pharmacological intervention" OR "Drug therapy" [MeSH] OR "Combined Behavioural Counseling Interventions and Pharmacotherapy" | 1,587,116 |
| **Outcome** | "Airborne Particulate matter" [MeSH] OR "Indoor air quality"[MeSH] OR "Air quality in home" OR "Home airquality" OR "Air monitor" OR "Aerosol" OR "Aerosol monitor" OR "Air nicotine" OR "Tobacco use cessation" [MeSH] OR Biomarkers [MeSH] OR "Salivary biomarker" OR Cotinine [MeSH] OR Nicotine [MeSH] OR "Smoke free home\*" OR "Abstinence from tobacco\*" OR "Change in perception" OR "Smoking ban" [MeSH] | 47,122 results |

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| **Population** | **Intervention** | **Outcome** |
| MeSH terms | "Tobacco Smoke Pollution"[Mesh]"Non-Smokers"[Mesh]**AND**"Family"[Mesh] | "Clinical Trial" [Publication Type]"Counseling"[Mesh]"Behavior Control"[Mesh]"Motivational Interviewing"[Mesh]"Drug Therapy"[Mesh]"Education"[Mesh]"Methods"[Mesh] | "Particulate Matter"[Mesh]"Air Pollution, Indoor"[Mesh]"Aerosols"[Mesh]"Tobacco Use Cessation"[Mesh]"Biomarkers"[Mesh]"Cotinine"[Mesh]"Nicotine"[Mesh]"Smoke-Free Policy"[Mesh]"Smoking Cessation"[Mesh] |
|  | ((("Tobacco Smoke Pollution"[Mesh]) OR "Non-Smokers"[Mesh]) AND "Family"[Mesh]) OR "Home Environment"[Mesh] | "Clinical Trial" [Publication Type]) OR "Counseling"[Mesh]) OR "Behavior Control"[Mesh])) OR "Motivational Interviewing"[Mesh]) OR "Drug Therapy"[Mesh]) OR "Education"[Mesh]) OR "Methods"[Mesh] | "Particulate Matter"[Mesh]) OR "Air Pollution, Indoor"[Mesh]) OR "Aerosols"[Mesh]) OR "Tobacco Use Cessation"[Mesh]) OR "Biomarkers"[Mesh]) OR "Cotinine"[Mesh]) OR "Nicotine"[Mesh]) OR "Smoke-Free Policy"[Mesh]) OR "Smoking Cessation"[Mesh] |
| Text term | “Second hand smokers”“Second hand smokes”“Nonsmokers”“Second hand tobacco smoking”“Second hand tobacco smoker”“Tobacco smoke exposure”**AND**Kin“Family home\*”HouseholdHomebased“Home-based”Home | “Intervention study”Intervention “Educational intervention”“Counseling intervention”Counselling“Behavior manipulation”“Behavioral manipulation”“Nicotine replacement therapy”“Home-based intervention”“Behavioral counselling intervention”“Pharmacological intervention”“Combined Behavioural Counseling Interventions and Pharmacotherapy”“Face-to-face counselling”“Educational brochures”“coaching call”TrainingCounsellingBehaviour | “Airborne Particulate matter”“Indoor air quality”“Home air quality”“Air monitor”“Aerosol monitor”“Air nicotine”“Salivary biomarker”“Smoke free home”“Abstinence from tobacco”“Change in perception”“Smoking ban” |