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| **Logic Grid-Keyword search terms** | | | | | | |
| **Population** | **AND** | **Intervention** | **AND** | **Comparison** | **AND** | **Outcome** |
| “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 | “Intervention study” [MeSH]  OR  “Educational intervention”  OR  Counseling\* [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]  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] |

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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\*”  Household  Homebased  “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”  Training  Counselling  Behaviour | “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” |