



RESULTS FROM THE SEARCH FOR AVAILABLE SYSTEMATIC REVIEWS AND META-ANALYSES ON ENVIRONMENTAL NOISE

By: Marie-Ève Héroux, WHO Regional Office for Europe; Jos Verbeek, Finnish Institute of Occupational Health



Abstract

In the context of the development of the WHO environmental noise guidelines for the European Region, this paper includes a description of the methodology used to search, select and assess the quality of available systematic reviews and meta-analyses on environmental noise. It presents the search strategies employed for the different databases and the list of included and excluded studies.

Keywords

INFORMATION STORAGE AND RETRIEVAL – METHODS RESEARCH DESIGN META-ANALYSIS AS TOPIC REVIEW LITERATURE AS TOPIC DATABASES, BIBLIOGRAPHIC EVIDENCE-BASED MEDICINE - METHODS NOISE

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1 The search for available systematic reviews

1.1 Introduction

Exposure to environmental noise has been demonstrated to have adverse effects on health. Systematic evidence reviews were commissioned as part of the development of new WHO environmental noise guidelines for the European Region to assess the exposure-response relationships between environmental noise and associated health outcomes and to analyse the effects on health outcomes of interventions to change exposure to environmental noise.

Seven systematic reviews were conducted on the following topics:

- effects on sleep;
- annoyance;
- cognitive impairment, mental health and well-being;
- cardiovascular disease, diabetes and metabolic diseases;
- hearing impairment and tinnitus;
- adverse birth outcomes;
- effectiveness of interventions to reduce exposure to or adverse outcomes from environmental noise.

As a first step, a single search was conducted to retrieve all relevant existing systematic reviews on environmental noise, health effects and interventions. The search methodology is detailed in the protocols for the systematic reviews (sections 2.1.5 and 2.2.5 of the document "Methodology for systematic evidence reviews for WHO environmental noise guidelines for the European Region" [hereafter "the methodology paper"]).

1.2 The search strategy

As a first step in the retrieval of evidence, in February 2014 a review of existing evidence on environmental noise published in or after 2000 in all languages was conducted in databases such as Medline/PubMed, Scopus (including Embase), PsycINFO, Web of Science, ScienceDirect and the database of the Organization for Applied Scientific Research of the Netherlands (TNO). The search for available systematic reviews is detailed in sections 2.1.5 and 2.2.5 of the methodology paper. See also chapter 2 lists the search strategies for the various databases.

1.3 Refining the search results

The database search yielded 507 studies. A further 55 articles were identified by the systematic review team through hand-searching and snowballing, yielding a total of 562 literature reviews and articles (see Table 1).

Source	Number of search results
Databases	507
Medline/PubMed	275
Web of Science	114
Scopus (including Embase)	77
Science Direct	25

Table 1. Search results by source

PyscINFO	11
TNO database	5
Hand-searching and	55
snowballing	
Total	562

The experts reviewed all the results and finally narrowed the list down to 81 eligible studies, assessed to be relevant for the purposes of the guidelines (see chapter 3 for lists of the included and excluded studies). Fig. 1 provides a visual summary of the reviews retrieved during the search and the process used to assess the papers and identify the eligible studies.





1.4 Suitability of exposure and assessment of quality

The authors assessed and documented the suitability of exposure and quality of the systematic reviews retrieved to decide whether they were relevant for the purposes of the guidelines and how best to use them (section 2.1.6 of the methodology paper). For systematic studies to be included in the review, they were required to meet a high quality standard and to have been published recently (in the last two years, based on availability and rate of production of new information). Where the condition for quality was met but the review was older than two years, an updated search of systematic reviews was performed to include new papers. If more than one up-to-date high-quality systematic review was

available for a particular outcome but they provided inconsistent results, further exploration was done to develop a rationale justifying why a specific review was selected to inform the guidelines. Where appropriate, this is reported separately as part of the evidence reviews commissioned for the guidelines. Finally, where no high-quality systematic reviews were available for a particular health outcome and/or intervention, a new search was conducted.

In some cases, systematic reviews that were narrative in nature or did not entirely match the key questions addressed in the WHO guidelines were included in the final list of papers. They were retained if they addressed one facet of the guidelines, provided useful background information or informed the systematic reviews commissioned (even though they did not directly describe exposure-response relationships between environmental noise and health outcomes or interventions). This was particularly the case for the reviews of health effects, for which limited quantitative evidence was found.

In the second phase, a search for individual papers was conducted, and the search strategy was adapted according to the outcome of the first phase. As availability of systematic reviews and meta-analyses differed for the various health outcomes considered under the guidelines, as well as for the review of interventions, the search process varied for each evidence review. As noted in the methodology paper, expert judgement was used to decide how the results of this search affected the search strategy for individual studies, based on the quality of the systematic reviews, as well as the coherence with the main research question of the evidence reviews. Specific results from the evidence reviews are available as open access papers in the Special Issue "WHO Noise and Health Evidence Reviews" of the International Journal of Environmental Research and Public Health (IJERPH) at http://www.mdpi.com/journal/ijerph/special_issues/WHO_reviews.

2 Search strategies for different databases

2.1 Medline/PubMed

Search (((((((((((((((((((((((((((((((())) Terms] OR "noise" [All Fields]))) OR ("noise, transportation" [MeSH Terms] OR ("noise" [All Fields] AND "transportation" [All Fields]) OR "transportation noise" [All Fields] OR ("transportation" [All Fields] AND "noise" [All Fields]))) OR (("Traffic" [Journal] OR "traffic" [All Fields]) AND ("noise" [MeSH Terms] OR "noise"[All Fields]))) OR (("aircraft"[MeSH Terms] OR "aircraft"[All Fields]) AND ("noise"[MeSH Terms] OR "noise" [All Fields]))) OR (("airports" [MeSH Terms] OR "airports" [All Fields] OR "airport" [All Fields]) AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (("community" [All Fields]) AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (("environment" [MeSH Terms] OR "environment" [All Fields] OR "environmental" [All Fields]) AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (("hospitals" [MeSH Terms] OR "hospitals" [All Fields] OR "hospital" [All Fields]) AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (("household" [All Fields] OR "households" [All Fields]) AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (("leisure activities" [MeSH Terms] OR ("leisure" [All Fields] AND "activities" [All Fields]) OR "leisure activities" [All Fields] OR "leisure" [All Fields]) AND ("noise" [MeSH Terms] OR "noise"[All Fields]))) OR ("motor vehicles" [MeSH Terms] OR ("motor" [All Fields] AND "vehicles" [All Fields] OR ("motor" [All Fields] AND "vehicle" [All Fields])) OR ("motor vehicles" [All Fields] OR "truck" [All Fields] OR "trucks" [All Fields])) AND ("noise" [MeSH Terms] OR "noise" [All Fields]) OR (("motorcycles" [MeSH Terms] OR "motorcycles" [All Fields] OR "motorcycle" [All Fields]) AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR ("neighbourhood" [All Fields] OR "neighborhood" [All Fields] OR "neighborhoods" [All Fields] OR "neighbourhoods" [All Fields]) AND ("noise" [MeSH Terms] OR "noise" [All Fields]) OR (("noise" [MeSH Terms] OR "noise" [All Fields]) AND personal [All Fields] AND ("electronics" [MeSH Terms] OR "electronics" [All Fields] OR "electronic" [All Fields]) AND ("devices" [All Fields] OR "device" [All Fields]))) OR (("noise" [MeSH Terms] OR "noise" [All Fields]) AND "mp3player"[MeSH Terms] OR "mp3-player"[All Fields] OR "mp3-players"[All Fields] OR "mp3"[All Fields] AND "players" [All Fields] OR ("mp3" [All Fields] AND "player" [All Fields] OR "mp3 players" [All Fields] OR "mp3 player" [All Fields]))) OR (("noise" [MeSH Terms] OR "noise" [All Fields]) AND ("play and playthings" [MeSH Terms] OR ("play" [All Fields] AND "playthings" [All Fields]) OR "play and playthings" [All Fields] OR "toys" [All Fields] OR "toy" [All Fields]))) OR (("noise" [MeSH Terms] OR "noise" [All Fields]) AND nuisance[All Fields])) OR (("noise"[MeSH Terms] OR "noise"[All Fields]) AND exposure[All Fields])) OR (("noise"[MeSH Terms] OR "noise"[All Fields]) AND load[All Fields])) OR (("railway"[All Fields] OR "railways" [All Fields]) AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (("schools" [MeSH Terms] OR "schools" [All Fields] OR "school" [All Fields]) AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (("train"[All Fields] OR "trains"[All Fields]) AND ("noise"[MeSH Terms] OR "noise"[All Fields]))) OR (("wind" [MeSH Terms] OR "wind" [All Fields]) AND turbine [All Fields] OR turbines [All Fields] AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (("wind" [MeSH Terms] OR "wind" [All Fields]) AND farm OR farms[All Fields] AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (("wind" [MeSH Terms] OR "wind" [All Fields]) AND turbine [All Fields] OR turbines AND ("sound" [MeSH Terms] OR "sound" [All Fields] OR sounds))) OR (("wind" [MeSH Terms] OR "wind" [All Fields]) AND farm OR farms[All Fields] AND ("sound" [MeSH Terms] OR "sound" [All Fields]))) OR (combined [All Fields] AND ("noise" [MeSH Terms] OR "noise" [All Fields]) AND exposure [All Fields])) OR (high-volume [All Fields] AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (high-volume [All Fields] OR (high AND volume [All Fields]) AND ("music"[MeSH Terms] OR "music"[All Fields]))) OR (low[All Fields] AND ("frequency"[All Fields]) AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (road [All Fields] AND ("Traffic" [Journal] OR "traffic"[All Fields]) AND ("noise"[MeSH Terms] OR "noise"[All Fields]))) OR (social[All Fields] AND ("noise" [MeSH Terms] OR "noise" [All Fields])))) AND (("systematic review") OR "systematic reviews")))

OR (((((((((((((((((((((((((((((((((()))) Casroom" [All Fields] OR "classrooms" [All Fields] AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR ("noise, transportation" [MeSH Terms] OR ("noise" [All Fields] AND "transportation" [All Fields]) OR "transportation noise" [All Fields] OR ("transportation" [All Fields] AND "noise" [All Fields]))) OR (("Traffic" [Journal] OR "traffic" [All Fields]) AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (("aircraft" [MeSH Terms] OR "aircraft" [All Fields]) AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (("airports" [MeSH Terms] OR "airports" [All Fields] OR "airport" [All Fields]) AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (("community" [All Fields]) AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (("environment" [MeSH Terms] OR "environment" [All Fields] OR "environmental" [All Fields]) AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (("hospitals" [MeSH Terms] OR "hospitals" [All Fields] OR "hospital" [All Fields]) AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (("household" [All Fields] OR "households" [All Fields]) AND ("noise" [MeSH Terms] OR "noise"[All Fields]))) OR (("leisure activities"[MeSH Terms] OR ("leisure"[All Fields] AND "activities"[All Fields]) OR "leisure activities" [All Fields] OR "leisure" [All Fields]) AND ("noise" [MeSH Terms] OR "noise"[All Fields]))) OR ("motor vehicles" [MeSH Terms] OR ("motor" [All Fields] AND "vehicles" [All Fields] OR ("motor" [All Fields] AND "vehicle" [All Fields])) OR ("motor vehicles" [All Fields] OR "truck" [All Fields] OR "trucks" [All Fields])) AND ("noise" [MeSH Terms] OR "noise" [All Fields]) OR (("motorcycles" [MeSH Terms] OR "motorcycles" [All Fields] OR "motorcycle" [All Fields]) AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR ("neighbourhood" [All Fields] OR "neighborhood" [All Fields] OR "neighborhoods" [All Fields] OR "neighbourhoods" [All Fields]) AND ("noise" [MeSH Terms] OR "noise" [All Fields]) OR (("noise" [MeSH Terms] OR "noise" [All Fields]) AND personal [All Fields] AND ("electronics" [MeSH Terms] OR "electronics" [All Fields] OR "electronic" [All Fields]) AND ("devices" [All Fields] OR "device" [All Fields]))) OR (("noise" [MeSH Terms] OR "noise" [All Fields]) AND "mp3player"[MeSH Terms] OR "mp3-player"[All Fields] OR "mp3-players"[All Fields] OR "mp3"[All Fields] AND "players" [All Fields] OR ("mp3" [All Fields] AND "player" [All Fields] OR "mp3 players" [All Fields] OR "mp3 player"[All Fields]))) OR (("noise"[MeSH Terms] OR "noise"[All Fields]) AND ("play and playthings"[MeSH Terms] OR ("play" [All Fields] AND "playthings" [All Fields]) OR "play and playthings" [All Fields] OR "toys" [All Fields] OR "toy" [All Fields]))) OR (("noise" [MeSH Terms] OR "noise" [All Fields]) AND nuisance[All Fields])) OR (("noise" [MeSH Terms] OR "noise" [All Fields]) AND exposure[All Fields])) OR (("noise"[MeSH Terms] OR "noise"[All Fields]) AND load[All Fields])) OR (("railway"[All Fields] OR "railways" [All Fields]) AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (("schools" [MeSH Terms] OR "schools" [All Fields] OR "school" [All Fields]) AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (("train"[All Fields] OR "trains"[All Fields]) AND ("noise"[MeSH Terms] OR "noise"[All Fields]))) OR (("wind" [MeSH Terms] OR "wind" [All Fields]) AND turbine [All Fields] OR turbines [All Fields] AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (("wind" [MeSH Terms] OR "wind" [All Fields]) AND farm OR farms[All Fields] AND ("noise"[MeSH Terms] OR "noise"[All Fields]))) OR (("wind"[MeSH Terms] OR "wind" [All Fields]) AND turbine [All Fields] OR turbines AND ("sound" [MeSH Terms] OR "sound" [All Fields] OR sounds))) OR (("wind" [MeSH Terms] OR "wind" [All Fields]) AND farm OR farms [All Fields] AND ("sound" [MeSH Terms] OR "sound" [All Fields]))) OR (combined [All Fields] AND ("noise" [MeSH Terms] OR "noise" [All Fields]) AND exposure [All Fields])) OR (high-volume [All Fields] AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (high-volume [All Fields] OR (high AND volume [All Fields]) AND ("music" [MeSH Terms] OR "music" [All Fields]))) OR (low [All Fields] AND ("frequency" [All Fields]) AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (road [All Fields] AND ("Traffic" [Journal] OR "traffic" [All Fields]) AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) OR (social [All Fields] AND ("noise" [MeSH Terms] OR "noise" [All Fields]))) AND systematic[sb]) Filters: Publication date from 2000/01/01 to 2014/12/31

2.2 Web of Science

114

#36 AND #35

Refined by: PUBLICATION YEARS=(2013 OR 2008 OR 2003 OR 2012 OR 2011 OR 2006 OR 2009 OR 2000 OR 2001 OR 2010 OR 2005 OR 2002 OR 2004 OR 2007)

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 133

122

#36 AND #35

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years

103,746

#34 OR #33 OR #32 OR #31 OR #30

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 88,201

#29 OR #28 OR #27 OR #26 OR #25 OR #24 OR #23 OR #22 OR #21 OR #20 OR #19 OR #18 OR #17 OR #16 OR #15 OR #14 OR #13 OR #12 OR #11 OR #10 OR #9 OR #8 OR #7 OR #6 OR #5 OR #4 OR #3 OR #2 OR #1

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years

31,376

(TS=(evidence* AND based*)) AND DOCUMENT TYPES: (Review)

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years

6,252

((SO=cochrane*)) AND DOCUMENT TYPES: (Review)

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 1,512

(TS=(health* AND technol* assess*)) AND DOCUMENT TYPES: (Review)

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 40,997

(TS=(meta* AND analys*)) AND DOCUMENT TYPES: (Review)

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 47,764

(TS=(systemat*)) AND DOCUMENT TYPES: (Review)

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 10,909

TS=(social* AND noise*) OR TS=(noise* AND load*)

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 103

TS=(motorcycle* AND noise*)

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 449

TS=(motor* AND vehicle* AND noise*)

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 408

TS=(truck* AND noise*)

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 12,362 TS=(noise* AND expos*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 472 TS=(noise* AND nuisance*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 509 TS=(combined* AND noise* AND exposure*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 1,027 TS=(hospital* AND noise*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 239 TS=(noise* AND toy*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 59 TS=(noise* AND mp3* AND player*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 32 TS=(noise* AND personal* AND electronic* AND device*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 5,231 TS=(high* AND volume* AND noise*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 178 TS=(high* AND volume* AND music*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 860 TS=(school* AND noise*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 348 TS=(classroom* AND noise*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 34,228 TS=(low* AND frequency* AND noise*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 306 TS=(household* AND noise*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 2.198 TS=(neighborhood* AND noise*) OR TS=(neighbourhood* AND noise*)

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 132 TS=(leisure* AND noise*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 11,744 TS=(train* AND noise*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 1,141 TS=(transportation* AND noise*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 1,702 TS=(road* AND traffic* AND noise*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 1,140 TS=(railway* AND noise*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 4,041 TS=(airport* AND noise*) OR TS=(aircraft* AND noise*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 235 TS=(wind* AND farm* AND sound*) OR TS=(wind* AND farm* AND noise*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 562 TS=(wind* AND turbine* AND sound*) OR TS=(wind* AND turbine* AND noise*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 4,957 TS=(traffic* AND noise*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 2,710 TS=(communit* AND noise*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years 9,278 TS=(environmental* AND noise*) Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH Timespan=All years

2.3 PsycINFO

(((environmental* NEAR/1 noise*) OR (community* NEAR/1 noise*) OR (traffic* NEAR/1 noise*) OR (wind* NEAR/1 turbine* NEAR/1 sound*) OR (wind* NEAR/1 turbine* NEAR/1 noise*) OR (wind* NEAR/1 farm* NEAR/1 noise*) OR (airport* NEAR/1 noise*) OR (aircraft* NEAR/1 sound*) OR (wind* NEAR/1 farm* NEAR/1 noise*) OR (airport* NEAR/1 noise*) OR (aircraft* NEAR/1 noise*) OR (railway* NEAR/1 noise*) OR (road* NEAR/1 traffic* NEAR/1noise*) OR (transportation* NEAR/1 noise*) OR (train* NEAR/1 noise*) OR (leisure* NEAR/1 noise*) OR (neighborhood* NEAR/1 noise*) OR (household* NEAR/1 noise*)

OR (low* NEAR/1 frequency* NEAR/1 noise*) OR (classroom* NEAR/1 noise*) OR (school* NEAR/1 noise*) OR (high* NEAR/1 volume* NEAR/1 music*) OR (high* NEAR/1 volume* NEAR/1 noise*) OR (noise* NEAR/1 personal* NEAR/1 electronic* NEAR/1 device*) OR (noise* NEAR/1 mp3*NEAR/1 player*) OR (noise* NEAR/2 toy*) OR (hospital* NEAR/1 noise*) OR (combined* NEAR/1 noise* NEAR/1 player*) OR (noise* NEAR/2 toy*) OR (hospital* NEAR/1 noise*) OR (combined* NEAR/1 noise*) OR (motor* NEAR/1 noise*) OR (noise* NEAR/1 noise*) OR (motor* NEAR/1 noise*) OR (motorcycle* NEAR/1 noise*) OR (social* NEAR/1 noise*) OR (noise* NEAR/1 load*)) OR (SU.EXACT.EXPLODE("Noise Effects")

ANDSU.EXACT.EXPLODE("Environment"))) AND (((systemat* NEAR/1 review*) OR (meta* NEAR/1 analys*) OR (health* NEAR/1 technol* NEAR/1 assess*) OR cochrane* OR (evidence* NEAR/1 based*)))

2.4 Scopus

NOISE-combinations:

(TITLE-ABS-KEY(environmental* AND noise*) OR TITLE-ABS-KEY(communit* AND noise*) OR TITLE-ABS-KEY(traffic* AND noise*) OR TITLE-ABS-KEY(wind* AND turbine* AND noise*) OR TITLE-ABS-KEY(wind* AND turbine* AND sound*) OR TITLE-ABS-KEY(wind* AND farm* AND sound*) OR TITLE-ABS-KEY(wind* AND farm* AND noise*) OR TITLE-ABS-KEY(airport* AND noise*) OR TITLE-ABS-KEY(aircraft* AND noise*) OR TITLE-ABS-KEY(railway* AND noise*) OR TITLE-ABS-KEY(road* AND traffic* AND noise*) OR TITLE-ABS-KEY(transportation* AND noise*) OR TITLE-ABS-KEY(train* AND noise*) OR TITLE-ABS-KEY(leisure* AND noise*) OR TITLE-ABS-KEY(neighbourhood* AND noise*) OR TITLE-ABS-KEY(neighborhood* AND noise*) OR TITLE-ABS-KEY(household* AND noise*) OR TITLE-ABS-KEY(low* AND frequency* AND noise*) OR TITLE-ABS-KEY(classroom* AND noise*) OR TITLE-ABS-KEY(school* AND noise*) OR TITLE-ABS-KEY(high* AND volume* AND music*) OR TITLE-ABS-KEY(high* AND volume* AND noise*) OR TITLE-ABS-KEY(personal* AND electronic* AND device* AND noise*) OR TITLE-ABS-KEY(mp3* AND player* AND noise*) OR TITLE-ABS-KEY(toy* AND noise*) OR TITLE-ABS-KEY(hospital* AND noise*) OR TITLE-ABS-KEY(combined* AND exposure* AND noise*) OR TITLE-ABS-KEY(nuisance* AND noise*) OR TITLE-ABS-KEY(expos* AND noise*) OR TITLE-ABS-KEY(truck* AND noise*) OR TITLE-ABS-KEY(motor* AND vehicle* AND noise*) OR TITLE-ABS-KEY(motorcycle* AND noise*) OR TITLE-ABS-KEY(social* AND noise*) OR TITLE-ABS-KEY(load* AND noise*))

COMBINATION: noise et al AND (systematic review OR meta analysis) AND publ year >1999 AND NOT Medline

((((TITLE-ABS-KEY(environmental* AND noise*) OR TITLE-ABS-KEY(communit* AND noise*) OR TITLE-ABS-KEY(traffic* AND noise*) OR TITLE-ABS-KEY(wind* AND turbine* AND noise*) OR TITLE-ABS-KEY(wind* AND turbine* AND sound*) OR TITLE-ABS-KEY(wind* AND farm* AND sound*) OR TITLE-ABS-KEY(wind* AND farm* AND noise*) OR TITLE-ABS-KEY(airport* AND noise*) OR TITLE-ABS-KEY(aircraft* AND noise*) OR TITLE-ABS-KEY(railway* AND noise*) OR TITLE-ABS-KEY(road* AND traffic* AND noise*) OR TITLE-ABS-KEY(transportation* AND noise*) OR TITLE-ABS-KEY(train* AND noise*) OR TITLE-ABS-KEY(leisure* AND noise*) OR TITLE-ABS-KEY(neighbourhood* AND noise*) OR TITLE-ABS-KEY(leisure* AND noise*) OR TITLE-ABS-KEY(neighbourhood* AND noise*) OR TITLE-ABS-KEY(neighborhood* AND noise*) OR TITLE-ABS-KEY(classroom* AND noise*) OR TITLE-ABS-KEY(low* AND frequency* AND noise*) OR TITLE-ABS-KEY(classroom* AND noise*) OR TITLE-ABS-KEY(school* AND noise*) OR TITLE-ABS-KEY(high* AND volume* AND music*) OR TITLE-ABS-KEY(high* AND volume* AND noise*) OR TITLE-ABS-KEY(personal* AND electronic* AND device* AND noise*) OR TITLE-ABS-KEY(mp3* AND player* AND noise*) OR TITLE-ABS-KEY(toy* AND noise*) OR TITLE-ABS-KEY(nuisance* AND noise*) OR TITLE-ABS-KEY(combined* AND exposure* AND noise*) OR TITLE-ABS-KEY(nuisance* AND noise*) OR TITLE-ABS-KEY(combined* AND exposure* AND noise*) OR TITLE-ABS-KEY(nuisance* AND noise*) OR TITLE-ABS-KEY(combined* AND exposure* AND noise*) OR TITLE-ABS-KEY(nuisance* AND noise*) OR TITLE-ABS-KEY(expos* AND noise*) OR TITLE-ABS-KEY(nuisance* AND noise*) OR TITLE-ABS-KEY(expos* AND noise*) OR TITLE-ABS-KEY(nuck* AND noise*) OR TITLE-ABS-KEY(nuck* AND noise*) OR TITLE-ABS-KEY(motor* AND vehicle* AND noise*) OR TITLE-ABS-KEY(motorcycle* AND noise*) OR TITLE-ABS- KEY(social* AND noise*) OR TITLE-ABS-KEY(load* AND noise*))) AND ((TITLE-ABS-KEY(systemat* AND review*) OR TITLE-ABS-KEY(meta analys*) OR SRCTITLE(cochrane*)))) AND (not DBCOLL(medl))) AND ((PUBYEAR > 1999))

2.5 ScienceDirect

((TITLE-ABS-KEY(environmental* AND noise*) OR TITLE-ABS-KEY(communit* AND noise*) OR TITLE-ABS-KEY(traffic* AND noise*) OR TITLE-ABS-KEY(wind* AND turbine* AND noise*) OR TITLE-ABS-KEY(wind* AND turbine* AND sound*) OR TITLE-ABS-KEY(wind* AND farm* AND sound*) OR TITLE-ABS-KEY(wind* AND farm* AND noise*) OR TITLE-ABS-KEY(airport* AND noise*) OR TITLE-ABS-KEY(aircraft* AND noise*) OR TITLE-ABS-KEY(railway* AND noise*) OR TITLE-ABS-KEY(road* AND traffic* AND noise*) OR TITLE-ABS-KEY(transportation* AND noise*) OR TITLE-ABS-KEY(train* AND noise*) OR TITLE-ABS-KEY(leisure* AND noise*) OR TITLE-ABS-KEY(neighbourhood* AND noise*) OR TITLE-ABS-KEY(neighborhood* AND noise*) OR TITLE-ABS-KEY(household* AND noise*) OR TITLE-ABS-KEY(low* AND frequency* AND noise*) OR TITLE-ABS-KEY(classroom* AND noise*) OR TITLE-ABS-KEY(school* AND noise*) OR TITLE-ABS-KEY(high* AND volume* AND music*) OR TITLE-ABS-KEY(high* AND volume* AND noise*) OR TITLE-ABS-KEY(personal* AND electronic* AND device* AND noise*) OR TITLE-ABS-KEY(mp3* AND player* AND noise*) OR TITLE-ABS-KEY(toy* AND noise*) OR TITLE-ABS-KEY(hospital* AND noise*) OR TITLE-ABS-KEY(combined* AND exposure* AND noise*) OR TITLE-ABS-KEY(nuisance* AND noise*) OR TITLE-ABS-KEY(expos* AND noise*) OR TITLE-ABS-KEY(truck* AND noise*) OR TITLE-ABS-KEY(motor* AND vehicle* AND noise*) OR TITLE-ABS-KEY(motorcycle* AND noise*) OR TITLE-ABS-KEY(social* AND noise*) OR TITLE-ABS-KEY(load* AND noise*))) AND ((TITLE-ABSTR-KEY(systemat* review)) OR (TITLE-ABSTR-KEY(meta analys*))) AND LIMIT-TO(yearnav, "2014,2013,2012,2011,2010,2009,2008,2007,2006,2005,2004,2003,2001,2000")

2.6 TNO database

COMBINATION: environment

((environmental* OR communit* OR traffic* OR (wind* AND turbine*) OR (wind* AND farm*) OR airport* OR aircraft* OR railway* OR (road* AND traffic*) OR transportation* OR train* OR leisure* OR neighbourhood* OR neighborhood* OR household* OR (low* AND frequency*) OR classroom* OR school* OR (high* AND volume*) OR (personal* AND electronic* AND device*) OR (mp3* AND player*) OR toy* OR hospital* OR (combined* AND exposure*) OR nuisance* OR expos* OR truck* OR (motor* AND vehicle*) OR motorcycle* OR social* OR load*) AND (noise* OR sound*)) OR (high* AND volume* AND music*) AND (noise* OR sound*)

COMBINATION: environment AND noise AND system* review:

(((environmental* OR communit* OR traffic* OR (wind* AND turbine*) OR (wind* AND farm*) OR airport* OR aircraft* OR railway* OR (road* AND traffic*) OR transportation* OR train* OR leisure* OR neighbourhood* OR neighborhood* OR household* OR (low* AND frequency*) OR classroom* OR school* OR (high* AND volume*) OR (personal* AND electronic* AND device*) OR (mp3* AND player*) OR toy* OR hospital* OR (combined* AND exposure*) OR nuisance* OR expos* OR truck* OR (motor* AND vehicle*) OR motorcycle* OR social* OR load*) AND (noise* OR sound*)) OR (high* AND volume* AND music*)) AND system* review

COMBINATION: environment AND noise AND meta-analysis:

(((environmental* OR communit* OR traffic* OR (wind* AND turbine*) OR (wind* AND farm*) OR airport* OR aircraft* OR railway* OR (road* AND traffic*) OR transportation* OR train* OR leisure* OR neighbourhood* OR neighborhood* OR household* OR (low* AND frequency*) OR classroom* OR school* OR (high* AND volume*) OR (personal* AND electronic* AND device*) OR (mp3* AND player*) OR toy* OR hospital* OR (combined* AND exposure*) OR nuisance* OR expos* OR truck* OR (motor* AND vehicle*) OR motorcycle* OR social* OR load*) AND (noise* OR sound*)) OR (high* AND volume* AND music*)) AND meta analys*

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World Health Organization Regional Office for Europe

UN City, Marmorvej 51, DK-2100 Copenhagen Ø, Denmark Tel.: +45 45 33 70 00 Fax: +45 45 33 70 01 Email: euwhocontact@who.int Website: www.euro.who.int