

## Collected systematic reviews for the topic “occupation and hip osteoarthritis”

|    | Reference  | Quality score (Yes/11) | PubMed link   |
|----|--|------------------------|---|
| 1. | <b>Lievensse A.</b> et al. J Rheumatol 2001; 28: 2520                  | 7/11                   | <a href="https://pubmed.ncbi.nlm.nih.gov/11708427/">PM:11708427</a> |
| 2. | <b>Schouten J, de Bie R, Swaen G.</b> Curr Opin Rheumatol 2002; 14: 89 | 3/11                   | <a href="https://pubmed.ncbi.nlm.nih.gov/11845010/">PM:11845010</a> |
| 3. | <b>D’Souza J, Franzblau A, Werner R.</b> J Occup Reha 2005; 15: 129    | 1/11                   | <a href="https://pubmed.ncbi.nlm.nih.gov/15844673/">PM:15844673</a> |
| 4. | <b>Vignon E.</b> et al. Joint Bone Spine 2006; 73: 442                 | 1/11                   | <a href="https://pubmed.ncbi.nlm.nih.gov/16777458/">PM:16777458</a> |
| 5. | <b>Jensen LK.</b> Occup. Environ Med 2008; 65: 6                       | 4/11                   | <a href="https://pubmed.ncbi.nlm.nih.gov/17634246/">PM:17634246</a> |
| 6. | <b>Aluoch M, Wao H.</b> AAOHN Journal 2009; 57: 283                    | 2/11                   | <a href="https://pubmed.ncbi.nlm.nih.gov/19639860/">PM:19639860</a> |
| 7. | <b>Da Costa B, Vieira E.</b> Am J. Ind. Med 2010; 53: 285              | 4/11                   | <a href="https://pubmed.ncbi.nlm.nih.gov/19753591/">PM:19753591</a> |

## PEROSH Clearinghouse Search documentation Form

|   |
|---|
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### 1 Objective:

Collecting systematic reviews on the topic of “occupation and hip osteoarthritis”.

### 2 Question:

Does physical work load lead to hip osteoarthritis?

Population: persons between 25 -80 of age

Intervention/Exposure: physical work load

Outcome: hip osteoarthritis

### 3 Searched Databases:

| Database            | Time span    | Date searched<br>(yyyy-mm-dd) | Citations in<br>Database | Citations after<br>duplicate check |
|---------------------|--------------|-------------------------------|--------------------------|------------------------------------|
| Medline<br>(PubMed) | 2000 to 2010 | 2010-03-19                    | 94                       | <b>84</b>                          |
| EMBASE              | 2000 to 2010 | 201-03-22                     | 116                      | <b>115</b>                         |

### 4 Search Strategy:

**Medline via PubMed, searched 2010-03-19.**

(Provide each step and the final combination using Boolean operators, limits: e. g. "human", age groups, study designs, publication years, languages)

| # | Searches  | Results                 |
|---|---|-------------------------|
| 1 | ((("osteoarthritis, hip"[MeSH Terms] OR ("osteoarthritis"[All Fields] AND "hip"[All Fields]) OR "hip osteoarthritis"[All Fields] OR "coxarthrosis"[All Fields]) OR ("osteoarthritis, hip"[MeSH Terms] OR ("osteoarthritis"[All Fields] AND "hip"[All Fields]) OR "hip osteoarthritis"[All Fields] OR "coxarthroses"[All Fields])) OR ((hip joint endoprosthesis) OR (hip endoprosthesis) OR (hip joint prosthesis) OR (hip prosthesis)) | <a href="#">32580</a>   |
| 2 | ("lifting"[MeSH Terms] OR "lifting"[All Fields] OR "carrying"[All Fields])  | <a href="#">77785</a>   |
| 3 | #1 OR #2  | <a href="#">110275</a>  |
| 4 | (occupational diseases [MH] OR occupational exposure [MH] OR occupational medicine [MH] OR occupational risk [TW] OR occupational hazard [TW] OR (industry [MeSH Terms] mortality [SH]) OR occupational group* [TW] OR work-related OR occupational air pollutants [MH] OR working environment [TW])  | <a href="#">155069</a>  |
| 5 | #3 AND #4   | <a href="#">1428</a>    |
| 6 | (meta-analysis as topic[mh] OR meta-analysis[pt] OR meta-analysis[tiab] OR review[pt] OR review[tiab]) NOT (letter[pt] OR editorial[pt] OR comment[pt]) NOT ((animals[Mesh:noexp]) NOT (humans[Mesh]))  | <a href="#">1638858</a> |
| 7 | #5 AND #6 Limits: Publication Date from 2000/01/01  | <a href="#">94</a>      |

Embase searched 2010-03-23

| # | Searches   | Results |
|---|--|---------|
| 1 | 'hip osteoarthritis' OR (osteoarthritis AND hip) OR coxarthrosis OR coxarthroses OR 'hip joint endoprosthesis' OR 'total hip prosthesis' OR 'hip endoprosthesis' OR 'hip joint prosthesis' OR 'hip prosthesis' OR ('joint prosthesis' AND hip) OR (endoprosthesis AND hip) |         |
| 2 | lifting OR carrying OR 'weight bearing'  |         |
| 3 | #1 OR #2   |         |
| 4 | occupation*:de OR work*:de OR 35:cl  |         |
| 5 | #3 AND #4  |         |
| 6 | 'meta analysis':de OR review:it OR search  |         |
| 7 | #5 AND #6  |         |
| 8 | #7 AND [embase]/lim AND [2000-2010]/py   |         |
| 9 | #8 AND [medline]/lim   | 116     |

## 5 Selection process:

### 5.1 Inclusion criteria:

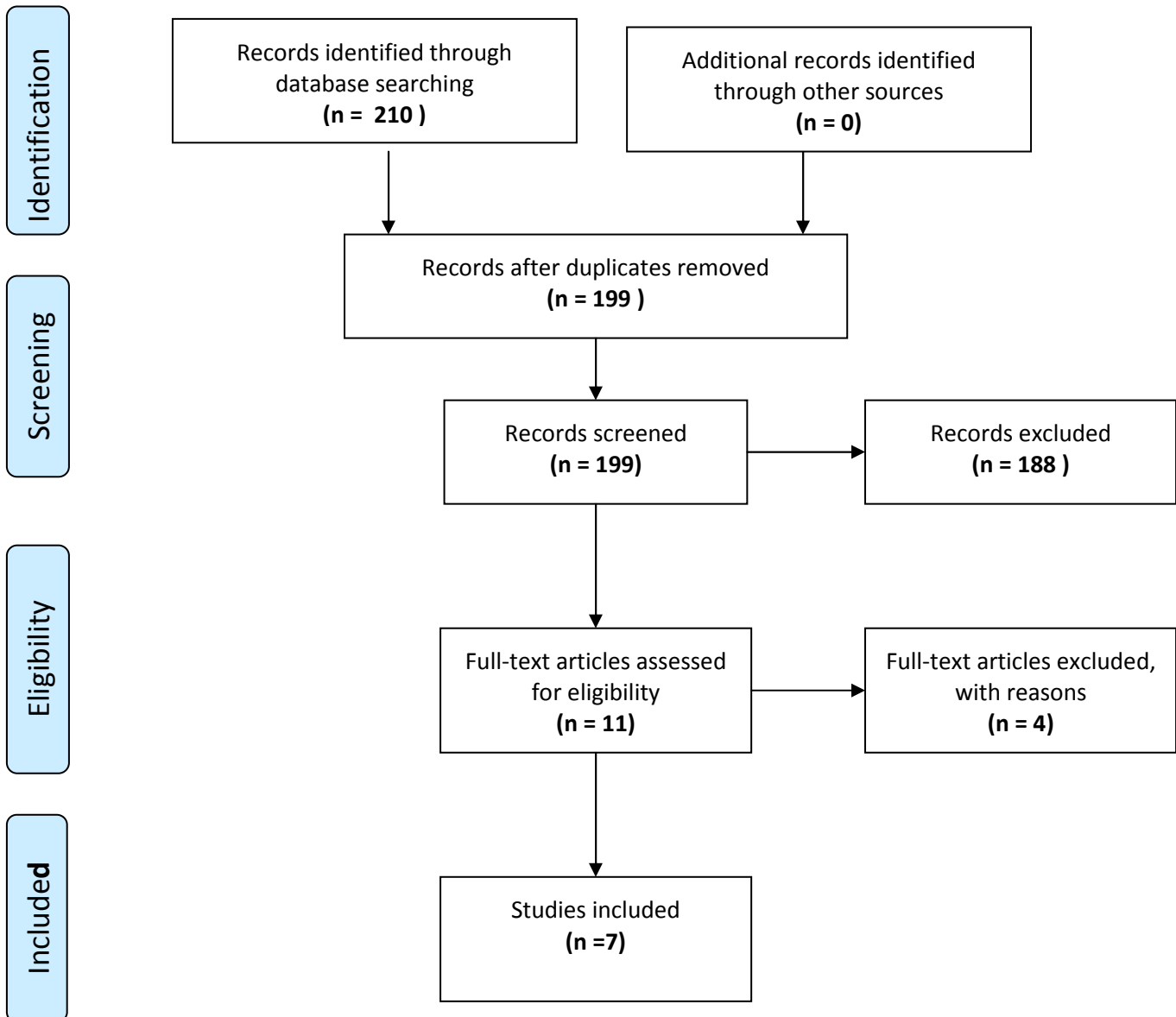
- A. According to **PICO**- question (see 2.)
- B. According to inclusion criteria for systematic reviews (see PEROSH Clearinghouse Inclusion and classification criteria for Occupational Health Reviews)
- C. According to inclusion criteria for Occupational Health and Safety topics (see PEROSH Clearinghouse Inclusion and classification Criteria for Occupational Health Reviews)

### 5.2 Selection:

First step: Based on titles and abstract, UE und AS selected the retrieved articles independently resolving discrepancies by discussions.

Second step: Based on the pre-selected full texts, UE und AS applied the above mentioned inclusion criteria independently resolving discrepancies by discussions or by consensus conference.

## 6 Results: (Adapted from PRISMA 2009 Flow Diagram)



## 7 Quality Assessment of the Systematic Reviews / AMSTAR Checklist (by UE and MN):

| Autor           | AMSTAR Kriterien |   |   |   |   |   |   |   |      |    |    | Total Yes | Total Can't answer |
|-----------------|------------------|---|---|---|---|---|---|---|------|----|----|-----------|--------------------|
|                 | 1                | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9    | 10 | 11 |           |                    |
| Lievensse, 2001 | Y                | ? | Y | Y | ? | Y | Y | Y | ?    | Y  | N  | 7         | 3                  |
| Schouten, 2002  | Y                | N | Y | N | N | Y | N | N | N.a. | N  | N  | 3         | 0                  |
| D'Souza, 2005   | N                | N | N | N | N | Y | ? | N | N.a. | N  | N  | 1         | 1                  |
| Vignon, 2006    | N                | ? | N | N | ? | N | N | Y | N.a. | N  | N  | 1         | 2                  |
| Jensen, 2008    | ?                | N | Y | N | ? | Y | Y | Y | ?    | N  | ?  | 4         | 4                  |
| Aluoch, 2009    | ?                | N | Y | N | N | Y | N | N | N.a. | N  | N  | 2         | 1                  |
| da Costa, 2010  | Y                | ? | Y | Y | ? | Y | ? | ? | N    | N  | N  | 4         | 4                  |

Y = Yes; N = No; ? = Can't answer; N.a. =Not applicable