Table e-2. Description of the studies included in the meta-analysis and the result of the meta-analysis for both low and high risk of bias studies and for only the low risk of bias studies

Physically demanding work (10 studies)	Definition of exposure     Measurement	High exposure	Low exposure, reference group	OR (both low and high L&H, only low L)	95%CI 1.48-2.79
MOLK (TO STUDIES)				L: 1.95	1.39-2.74
11	<ul><li>Physical effort</li><li>Self-report</li></ul>	'Hard'	'Sedentary or minimal'	1.26	0.69-2.28
14	<ul><li>Sum index of occupational stress</li><li>Self-report</li></ul>	Sum score=>2	Sum score=0	2.41	1.79-3.25
17	<ul> <li>A cumulative sum index for the number years of exposure to five workload factors</li> <li>Interviews</li> </ul>	'More than 10 years in heavy physical work in general'	'Zero years of heavy physical work in general'	1.71	1.18-2.47
18	<ul><li>Physical strenuousness of work</li><li>Interviews</li></ul>	'Exposed to strenuous physical work'	'No exposure to professional car driving or strenuous physical work'	2.30	1.44-3.67
23	Physical work-related overuse	'Workers exposed to moderately strenuous tasks at	'Workers not exposed to repetitive motion, overexertion,	0.70	0.43-1.13

	Self-reports	the work place'	heavy physical work, etcetera'		
27	<ul><li>Intensity of physical labour at work</li><li>Self-report</li></ul>	'Hard'	'Sitting, easy or moderate'	2.94	1.58-5.49
28	<ul> <li>Occupational groups (a priori assessment)</li> <li>Self-report, Expert opinion, and Biomechanical modelling</li> </ul>	'More than 10 years of occupation with medium or high physical workload'	'Always occupations with low physical workload'	1.19	0.70-2.01
29	<ul> <li>Cumulative lumbar load up to 10 years prior to diagnosis or interview date</li> <li>Interviews, Job survey by an expert, and Biomechanical modelling</li> </ul>	Men: ≥21.51*10 <sup>6</sup> Nh Women: >2.77*10 <sup>6</sup> Nh	Men: <5.0*10 <sup>6</sup> Nh Women: 0 Nh	2.68	2.04-3.54
30	<ul> <li>Physical work, strenuous enough to result in sweating</li> <li>Self-report</li> </ul>	'Often'	'Seldom/never'	3.74	1.78-7.84
34	Lumbar load     Self-report	'Level III (moderate) represents mainly bending over and twisting and whole- body vibrating at work and level IV (severe) represents mainly heavy lifting and heavy labour work'	'Level I (slight) represents no fixed occupation and little physical labour and level II (mild) represents mainly sitting at work'	4.63	2.69-7.97
Bending and twisting trunk (4 studies)				L&H: 2.43	1.67-3.55

				L: 2.48	1.49-4.13
11	• Job content	'Bending and postural twisting	'Sitting or standing'	2.41	1.47-3.95
	<ul><li>Self-report</li></ul>	work load'			
17	Bending (at least 1 hour	'More than 10 years'	'Zero years'	1.53	1.06-2.20
	per work day)				
	<ul><li>Interviews</li></ul>				
28	• Extreme (>90° trunk	>1500 h	0 h	4.66	2.43-8.96
	flexion) forward bending				
	(h)				
	<ul> <li>Self-report, Expert</li> </ul>				
	opinion, and				
	Biomechanical modelling				
29	<ul> <li>Cumulative lumbar load</li> </ul>	Men: >4.85*10 <sup>6</sup> Nh	Men: 0 Nh	2.56	1.99-3.31
	through intensive-load	Women: >2.77*10 <sup>6</sup> Nh	Women: 0 Nh		
	postures				
	<ul><li>Interviews, Job survey by</li></ul>				
	an expert, and				
	Biomechanical modelling				
Lifting and carrying (5				L&H: 1.41	0.93-2.14
studies)				L: 1.70	1.04-2.78
				L. 1.70	1.04-2.76
11	• Job content	'Lifting or carrying heavy	'Sitting or standing'	0.95	0.54-1.67
	<ul><li>Self-report</li></ul>	objects'			
17	Number of years handling	'More than 10 years'	'Zero years'	1.31	0.87-1.98
	of heavy objects (20 kg on				
	average at least 10 times				
	per work day)				

	Interviews				
20	Type of job a person held	'Any lifting'	'No lifting'	1.09	0.60-1.98
	for at least a year when				
	there symptoms arose				
	<ul><li>Interview</li></ul>				
28	<ul> <li>Cumulated lifting/carrying</li> </ul>	>10 000 kg <sup>2</sup> *h	0 kg <sup>2</sup> *h	1.33	0.76-2.34
	(kg <sup>2</sup> *h)				
	<ul> <li>Self-report, Expert</li> </ul>				
	opinion, and				
	Biomechanical modelling				
29	Cumulative lumbar load	Men: ≥8.98*10 <sup>6</sup> Nh	Men: <2.34*10 <sup>6</sup> Nh	2.53	1.94-3.30
	through manual materials	Women: ≥9.06*10 <sup>6</sup> Nh	Women: 0 Nh		
	handling and/or intensive-				
	load postures				
	<ul><li>Interviews, Job survey by</li></ul>				
	an expert, and				
	Biomechanical modelling				
Lifting & Bending				L: 2.84	2.18-3.69
trunk (2 studies)					
28	Lifting/carrying combined     with extreme forward     bending	Lifting/carrying >150 000 kg <sup>2</sup> *h and extreme forward bending >1500 h	No lifting/carrying; no extreme forward bending	2.43	0.89-6.63
	<ul> <li>Self-report, Expert</li> </ul>				
	opinion, and				
	Biomechanical modelling				

29	<ul> <li>Cumulative lumbar load through manual materials handling and/or intensive- load postures</li> <li>Interviews, Job survey by an expert, and</li> </ul>	Men: >21.51*10 <sup>6</sup> Nh  Women: ≥14.47*10 <sup>6</sup> Nh	Men: <5.0*10 <sup>6</sup> Nh  Women: 0 Nh	2.87	2.18-3.77
	Biomechanical modelling				
Professional driving				L&H: 1.46	0.90-2.35
(6 studies)				L: 1.23	0.57-2.64
11	• Job content	'Causal exposure to vibration'	'Sitting or standing'	1.85	0.87-3.94
	<ul><li>Self-report</li></ul>				
14	Work-related driving	'Professional work-related	´No work-related driving motor	0.96	0.57-1.62
	• Self-report	driving motor vehicles'	vehicles′		
18	<ul><li>The history of professional car driving</li><li>Questionnaire</li></ul>	'Exposed to driving, no strenuous physical work'	'No exposure to professional car driving or strenuous physical work'	0.33	0.04-2.46
20	<ul> <li>Type of job a person held for at least a year when there symptoms arose</li> <li>Interview</li> </ul>	'Job as truck driver"	'Not a job as truck driver'	4.59	1.48-14.28
24	<ul> <li>Exposure to WBV in their latest job</li> <li>Current rms A(8) (ms<sup>-2</sup>) derived from driving times and imputed vibration</li> </ul>	≥0.5	<0.5	1.03	0.65-1.61

	magnitudes of vehicles.				
28	<ul> <li>Exposure to whole body vibration, weighting type of terrain</li> <li>Self-report, Expert opinion, and Biomechanical modelling</li> </ul>	>1800h	0 h	2.29	1.10-4.75
Sitting (2 studies)				L&H: 1.08 L: 0.70	0.49-2.38 <b>0.37-1.30</b>
				L. 0.70	0.57-1.50
21	<ul><li>The time they sat on their job</li><li>Interview</li></ul>	Half or more of the time sitting	Less than half the time sitting	1.57	1.01-2.44
28	<ul> <li>Cumulative sedentary         work (h)</li> <li>Self-report, Expert         opinion, and         Biomechanical modelling</li> </ul>	>30.000	≤10.000	0.70	0.37-1.30