

Since this is a very extensive table, the format and content has not been edited by ActaDV.

Table SII. NOS assessment of included studies

Study	Selection				Comparability	Outcome			Quality score
	Representativeness of exposed cohort	Selection of the non-exposed cohort from same source as exposed cohort	Ascertainment of exposure (specified time period)	Outcome of interest was not present at start of study	Comparability of Cohort (study reports adjusted IR for risk factors of HE)	Assessment of outcome (physical examination)	Follow-up long enough for outcome to occur (mean duration of Follow-up ≥ 12 months)	Adequacy of follow-up (complete follow-up or ≤ 20% or description of those lost suggesting no different from those followed)	
Reich A, 2020 (23)	Participants were truly representative of metal workers and office workers Metal workers and office apprentices from nine vocational schools. ★	Not relevant	Specified periods at occupation: 1,2 and 3 years ★	Yes ★	Study controls incidence for different time points in occupation. ★	Physical examination and self-administered questionnaire. ★	Yes ★	39.5%, 68 of 172 for metal workers and 39.8% 47 of 118 for office workers. The reasons were illness on the day of visit, changing school or career, varying lengths of vocational training programme. No drop-out because of skin changes. ★	Good quality
Foss-Skiftesvik MH, 2017 (34)	Participants were truly representative of hairdressing apprentices training in schools and hairdressing apprentices currently training in salons were included from vocational schools. ★	Not relevant	Specified period at occupation: 3 years ★	Yes ★	Cohorts are not comparable for confounders.	Hairdressers filled self-reported questionnaire	Yes ★	Number lost 202 (61.2% of 330). 87.6% (177 of 202) did not return the questionnaire 12.4% (25 of 202) had left the trade during follow-up	Poor quality
Smit HA, 1993 (21)	Participants were truly representative of nurses and office employee. Newly hired nurses and office employees of both sexes of the university hospital of Groningen, f Netherlands. ★	Not relevant	specified period: 2.75 years ★	Yes ★	Study controls incidence for different time periods in the occupation. Study reports age, sex and, previous work in studied occupation. ★	nurses and office employees filled self-reported questionnaire	Yes ★	Number lost 17.2% (100 of 582). 52.0% (52 of 100) did not return the questionnaire from nurse group. 39.0% (39 of 100) did not return the questionnaire from office employee group. Another 9.0% (9 of 100) from both groups totally were excluded without clear reason. ★	Good quality
Smit HA, 1994 (24)	Participants were truly representative of apprentice nurses in the third year of their training and apprentice hairdressers at the start	Not relevant	specified period: 1 years ★	Yes ★	Study controls incidence for different time periods in the occupation. Study reports	Nurses filled self-reported questionnaire and physical examination was performed. ★	Yes ★	Number lost 3.9% (3 of 77) for apprentice hairdressers and 11.9% (15 of 126) for apprentice nurses. ★	Good quality

John SM, 2000 (30)	Participants were truly representative of hairdressers apprentices from Osnabruck vocational school in Germany. ★	Not relevant	specified period: 3 years ★	Yes★	age, sex, atopy, previous work in studied occupation and contact allergy. Study controls incidence for different time periods in the occupation. Study reports age, sex, atopy, previous work in studied occupation. ★	Physical examination. ★	Yes★	Number lost 26 (28.3% of 92). 23.1% (6 of 26) already had hand dermatitis on 1 st examination. 20 (76.9% of 26) dropped out or had started work longer than 48 days prior to investigation	Good quality
Brisman J, 1998 (25)	Participants were truly representative of graduates from bakery classes. ★	Not relevant	Specified period at occupation: 3.1 years★	No	Study controls incidence for different time periods in the occupation, childhood eczema and sex. Study reports age sex, atopy and previous work in studied occupation. ★	Bakers filled self-reported questionnaire	Yes★	Number lost 697 (23.8% of 2,923). 80.0% (558 of 697) had never worked as bakers. 3.4% (24 of 697) did not report their work history. ★	Poor quality
Schmid K, 2005 (22)	Participants were truly representative of apprentice nurses who started their training at the occupational school of the University Hospital of Erlangen-Nuremberg, in Germany. ★	Not relevant	specified period: 3 years ★	Yes★	Study controls incidence for different time periods in the occupation. Study reports age and sex. ★	Nurses filled self-reported questionnaire	Yes★	Number lost 44 (29.7% of 148). 20.5% (9 of 44) did not agree to participate. 80% (35 of 44) lost for unviability at the date of follow-up investigation, loss of interest and left school. None discontinued their training due to hand dermatitis. ★	Good quality
Visser MJ, 2014 (32)	Participants were truly representative of recently started trainees nurses and care-giving students from vocational schools in the Netherlands. ★	Not relevant	specified period: 3 years ★	Yes★	Study controls incidence for different time periods in the occupation. Study reports age and sex. ★	Nurses filled a set of daily cards that were sent every 2–4 weeks during the traineeship.	Yes★	Number lost 188 (26.1% of 721) were lost to follow-up shortly after they had completed the inclusion questionnaire, or were excluded from the analysis for another reason, for example because they had not	Fair quality

Lind ML, 2007 (31)	Participants were selected group of hairdressers. Only women who graduated from vocational schools for hairdressers and worked as hairdressers, >30 h/week in Sweden.	Not relevant	specified period: 2.6 years ★	No	Study controls incidence for different age groups. Study reports age and sex. ★	Hairdressers filled self-reported questionnaire	Yes★	performed any traineeship or had missing information about exposure or HE symptoms during follow-up. Number lost 3,538 (49.1% of 7203). 88.8% (3,142 of 3,538) did not return the questionnaire. 11.2% (396 of 3,538) did not work as hairdressers.	Poor quality
Steengaard SS, 2016 (33)	Participants were truly representative of hairdressing apprentices recruited from hairdressing schools in Denmark. ★	Not relevant	No specified period, between 1.5–6 years	Yes★	Cohorts are not comparable for confounders.	Hairdressers filled self-reported questionnaire	Yes★	Number lost 64 (47.1% of 136)	Poor quality
Funke U, 2001 (2)	Participants were truly representative of office workers, metal-workers, blue-collar workers, and cooks. Apprentices at automobile manufacturer Audi AG. ★	Not relevant	Specified period at occupation: 3 years★	Yes★	Study controls incidence for different time periods. ★	Physical examination. ★	Yes★	Number lost 168 (8.1% of 2,078). ★	Good quality
Berndt U, 2000 (29)	Participants were selected group of metal workers. Only male trainees at the beginning of apprenticeship in 24 small to medium-sized metal-working factories.	Not relevant	Specified period at occupation: 2.5 years★	Yes★	Study controls incidence for different time periods in the occupation. ★	Physical examination. ★	Yes★	Number lost 11 (5.5% of 201). 9.1% (1 of 11) gave up training due to severe HE 7.5% (15, % of 201) resigned from work for reasons unrelated to skin disease. ★	Fair quality
Uter W, 1998 and 1999 (26, 28)	Participants were truly representative of hairdressing apprentices from vocational schools in Germany. ★	Not relevant	specified period: 2.5 years ★	Yes★	Study controls incidence for previous HE and different time periods in the occupation. Study presents age, sex, atopy and previous work in studied occupation. ★	Physical examination. ★	Yes★	Number lost 1,218 (51.8% of 2,352). Dropout in the sense that particularly participants with atopic skin sensitivity withdrew from the cohort. However, this was a significant phenomenon only if the "atopy score" is considered, and not for previous hand or flexural dermatitis.	Good quality

Uter W, 1998 (27)	Participants were truly representative of office workers. Office apprentices attending their 1 st year of a 2-year and 3-year programme at 1 vocational school. ★	Not relevant	Specified period at occupation: 3 years ★	Yes ★	Study controls incidence for light skin changes and hand dermatitis. ★	Office workers filled self-reported questionnaire. Physical examination. ★	Yes ★	Number lost 43 (38.7% of 111). 18, 16.2% of 43 personal reply. 18.6% (8 of 43) changed address. 40.0% (17 of 43) no reply. 5.0% (2 of 43) stopped training. 62.8% (27 of 43) still in training. 2.3% (1 of 43) HE claimed as due to climatic changes and wet household work. ★	Good quality
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