**Supplement 9:** Summary of study results regarding incidence of atopic dermatitis in children and adults from the year 2000 and onwards.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Author, year and reference* | *Study type* | *Year of enrollment/study start* | *Study*  *size (Number of participants)* | *% female* | *Country*  *(Setting)* | *Age at enrollment*  *(range or number in years if not otherwise indicated)* | *Age at study end*  *(years)* | *Follow-up*  *(years)* | *Definition of eczema* | *Incidence definition* | *One year incidence\**  *Baseline*  *(if applicable)* | *One year incidence\**  *(95%CI)* | *Male*  *Incidence* | *Female*  *Incidence* |
| Anandan C et al. 2009 (87) | Cohort | 1995 | unclear | nr | Scotland | All ages | All ages | 8 | Doctor diagnose and symptoms | Incidence rate of eczema per 1,000 patients per year | nr | 10.2  (9.9–10.6) | 8.8  (8.4–9.2) | 11.6  (11.1–12.1) |
| Bleiker 2000 (219) | Cohort | 1995 – 1996 | 1,206 |  | Germany | 14 | 29 | 15 | Doctor diagnose and symptoms | Incidence per 1,000 person-years  . |  | 8.9 | 8.0 | 9.7 |
| Burgess JA 2008 (85) | Birth cohort | 1968 | 8,583 | nr | Australia | 7 | 44 | 36 | ‘‘Did he/she have  infantile (baby) eczema?’’ | Incidence per 1,000 person-year at risk |  | 7.41  (6.27-8.74) |  |  |
| Cantarutti et al. 2015 (37) | Cohort | 2006 – 2012 | 145,233 | 47.9 | Italy | 0-13 | 0-13 | 6 | Doctor diagnose | Incidence per 1,000 person-years | 14.1  (13.4 – 14.7) | 16.5  (15.6 – 17.5) |  |  |
| Finnbogadottir 2012 (118) | Birth cohort | 1987 | 120 | 50.8 | Iceland | 0 | 21 | 21 | Doctor diagnose and symptoms | Cumulative incidence, % |  | 45 |  |  |
| Halkjaer et al. 2006 (344) | Birth cohort | 2001 | 411 | 50.6 | Denmark | At age 1 month | 1-2 years | 3 | Doctor diagnose and symptoms | Incidence of atopic dermatitis per year | At 1 year 31% | 10% from age 1 to age 2 years |  |  |
| Halkjaer et al. 2006 (344) | Birth cohort | 1998 | 411 | 50.6 | Denmark | 1 | 2 | 3 | nr | Incidence of atopic dermatitis per year, % |  | 10.0 |  |  |
| Henriksen 2015 (250) | Cohort | 1997 – 2011  2006 – 2010 | 972,836  534,541 | 48.7  48.6 | Denmark Sweden | 0 | 15 | 4 | Doctor diagnose | Incidence per 1,000 person-years |  | 215  306 |  |  |
| Mebrahtu et al. 2016 (38) | Cohort | 2012 – 2014 | 13,734 | nr | UK | 0 | 3-7 | Median 5.55; range, 0-7.6 | Doctor diagnose or treatment-based algorithm | Incidence rate per 1,000 person-years | nr | 95.6  (93.4 -97.9) | 96.5  (93.4-99.7) | 94.8  (91.7-98) |
| Mebrahtu et al. 2016 (38) | Cohort | 2012 – 2014 | 13,734 | nr | UK | 0 | 3-7 | Median 5.55; range, 0-7.6 | Doctor diagnose or treatment-based algorithm | One year incidence, % |  | 52.4  (51.5 -53.2) |  |  |
| Mohn et al. 2018 (378) | Cohort | 2009 – 2015 | 357,451 (2009)  373,954 (2014) | nr | Norway | <6 | 6-12 | 6 | Doctor diagnose or treatment-based algorithm | Incidence rate per patient-years. | 2009: 0.028 (0.028-0.029)  2014: 0.073 (0.071-0.075) | 2014: 0.034 (0.033-0.035) | nr | nr |
| Mortz 2015 (1) | Cohort | 1995 - 1996 | 1,206 |  | Germany | 14 | 29 | 15 | Doctor diagnose and symptoms | Incidence per 1,000 person-years  . |  | 8.9 | 8.0 | 9.7 |
| Olesen 2005 (67) | Birth cohort | 1993 – 1998 | 1,060  9,744 | nr | Danmark | 0 | 7 | Mean 6.8 (range 6.5-9.5) | Doctor diagnose | Cumulative incidence, % | 18.6 | 19.6 |  |  |
| Punekar 2009 (154) | Birth cohort | 1990 | 24,112 | 48.9 | UK | 0-1 | 2-3 | 2 | Doctor diagnose | Incidence rate of eczema per 10,000 person years |  |  | 60.8  (60.6–61.0) | 70.5  (70.3–70.6) |
| Punekar 2009 (154) | Birth cohort | 1990 | 24,112 | 48.9 | UK | 0-1 | 18 | 18 | Doctor diagnose | Incidence rate of eczema per 10,000 person years |  |  | 3.1  (3.0–3.1) | 1.4  (1.4–1.4) |
| Schäfer 2000 (68) | Cohort | 2012 – 2014 | 13,734 | nr | UK | From birth | 3-7 | Median 5.55;  range, 0-7.6 | One year incidence, % |  |  | 52.4  (51.5 -53.2) |  |  |
| Simpson 2009 (52) | Cohort | 2001 – 2005 | >30 million | nr | UK | All ages |  | 4 | Doctor diagnose | Age and sex standardized one year incidence per 1,000 patient-years | 9.6  (9.5-9.7) | 13.6  (13.5-13.7) |  |  |
| Wadonda-Kabondo (318) | Birth cohort | 1991 – 1992 | 8,530 | 48.2 | UK | 0-6 months | 6-18 months | 42 months | Symptoms | Cumulative incidence, % | 21.0  (20.2 - 21.9) | 29.9  (28.9 - 30.1) |  |  |
| Wadonda-Kabondo N 2002 (318) | Birth cohort | 1991 – 1992 | 8,530 | 48.2 | UK | 0 | 0-6 months, 6-18 months, 18-30 months | 42 months | Symptoms | Incidence risk, % |  | 21.0,  11.2,  3.8 |  |  |
| Vrbova, M. 2018 (107) | Birth cohort | 1996 – 2000 | 701 | 53.4 | Slovakia | 0 | 5 | 5 | Doctor diagnose | Cumulative incidence, %  Age 0-2 y  Age 3-5ys |  | 57.1  29.4 |  |  |
| Zietze HA,2018 (373) | Cohort | 2012 – 2015 | 3.3 millions |  | Germany | 18+ | nr | 3 | Doctor diagnose | Annual incidence rate per 100,000 persons |  | 510-554 |  |  |

nr not reported