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# Prevalence of parental mental health conditions among children aged 0-16 years in Denmark: a nationwide register-based cross-sectional study

* Supplementary tables

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# Supplementary table 1:

**Prevalence of children with parental mental health conditions in the 98 municipalities. Within each region, municipalities are ranked according to increasing prevalence of any parental mental health conditions.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **Any** | **Minor** | **Moderate** | **Severe** |
| **Region** | **Municipality** | **N** | **n** | **% (95% CI)** | **% (95% CI)** | **% (95% CI)** | **% (95% CI)** |
| **Region North** | **Jammerbugt** |  7,486  |  2,742  | 36.6 (35.5-37.7) | 23.6 (22.7-24.6) | 11.2 (10.6-12.0) | 1.8 (1.5-2.1) |
| **Aalborg** |  36,710  |  13,560  | 36.9 (36.4-37.4) | 24.0 (23.6-24.4) | 11.3 (11.0-11.6) | 1.7 (1.5-1.8) |
|  | **Rebild** |  6,614  |  2,464  | 37.3 (36.1-38.4) | 25.8 (24.8-26.9) | 9.8 (9.1-10.5) | 1.7 (1.4-2.0) |
|  | **Thisted** |  8,250  |  3,132  | 38.0 (36.9-39.0) | 25.0 (24.0-25.9) | 10.0 (9.4-10.7) | 3.0 (2.6-3.4) |
|  | **Brønderslev** |  7,440  |  2,885  | 38.8 (37.7-39.9) | 24.4 (23.5-25.4) | 12.4 (11.6-13.1) | 2.0 (1.7-2.3) |
|  | **Frederikshavn** |  10,089  |  3,942  | 39.1 (38.1-40.0) | 23.8 (22.9-24.6) | 13.5 (12.9-14.2) | 1.8 (1.5-2.1) |
|  | **Vesthimmerlands** |  7,194  |  2,811  | 39.1 (38.0-40.2) | 25.7 (24.7-26.7) | 11.1 (10.4-11.9) | 2.2 (1.9-2.6) |
|  | **Mariagerfjord** |  7,952  |  3,116  | 39.2 (38.1-40.3) | 24.8 (23.9-25.8) | 12.6 (11.9-13.4) | 1.8 (1.5-2.1) |
|  | **Hjørring** |  12,164  |  4,845  | 39.8 (39.0-40.7) | 24.1 (23.4-24.9) | 13.8 (13.2-14.4) | 1.9 (1.7-2.2) |
|  | **Morsø** |  3,700  |  1,571  | 42.5 (40.9-44.1) | 27.8 (26.3-29.2) | 11.4 (10.4-12.5) | 3.3 (2.7-3.9) |
|  | **Læsø** | 220  |  94  | 42.7 (36.3-49.4) | 29.5 (23.9-35.9) | 10.0 (6.7-14.8) | 3.2 (1.5-6.5) |
| **Central Region** | **Samsø** | 520  |  171  | 32.9 (29.0-37.1) | 20.6 (17.3-24.3) | 9.2 (7.0-12.0) | 3.1 (1.9-5.0) |
| **Lemvig** |  3,580  |  1,246  | 34.8 (33.3-36.4) | 24.8 (23.4-26.3) | 8.5 (7.7-9.5) | 1.4 (1.1-1.9) |
|  | **Skanderborg** |  14,317  |  5,172  | 36.1 (35.3-36.9) | 25.2 (24.5-25.9) | 9.2 (8.8-9.7) | 1.7 (1.5-1.9) |
|  | **Ringkøbing-Skjern** |  11,642  |  4,280  | 36.8 (35.9-37.6) | 22.8 (22.0-23.5) | 11.9 (11.4-12.6) | 2.1 (1.8-2.3) |
|  | **Hedensted** |  9,951  |  3,727  | 37.5 (36.5-38.4) | 25.9 (25.0-26.7) | 9.5 (8.9-10.0) | 2.1 (1.9-2.4) |
|  | **Holstebro** |  11,909  |  4,607  | 38.7 (37.8-39.6) | 24.5 (23.7-25.3) | 12.6 (12.1-13.2) | 1.5 (1.3-1.8) |
|  | **Ikast-Brande** |  8,649  |  3,350  | 38.7 (37.7-39.8) | 24.5 (23.6-25.4) | 12.0 (11.4-12.7) | 2.2 (1.9-2.5) |
|  | **Silkeborg** |  19,357  |  7,509  | 38.8 (38.1-39.5) | 26.2 (25.5-26.8) | 10.7 (10.3-11.1) | 1.9 (1.7-2.1) |
|  | **Odder** |  4,529  |  1,770  | 39.1 (37.7-40.5) | 26.3 (25.1-27.6) | 10.7 (9.8-11.6) | 2.1 (1.7-2.5) |
|  | **Favrskov** |  11,125  |  4,385  | 39.4 (38.5-40.3) | 28.8 (28.0-29.7) | 8.6 (8.1-9.2) | 2.0 (1.7-2.2) |
|  | **Herning** |  18,032  |  7,127  | 39.5 (38.8-40.2) | 24.6 (24.0-25.2) | 13.3 (12.8-13.8) | 1.6 (1.5-1.8) |
|  | **Skive** |  8,689  |  3,479  | 40.0 (39.0-41.1) | 25.0 (24.1-25.9) | 12.8 (12.1-13.5) | 2.3 (2.0-2.6) |
|  | **Aarhus** |  59,450  |  23,854  | 40.1 (39.7-40.5) | 26.1 (25.8-26.5) | 11.6 (11.3-11.8) | 2.4 (2.3-2.5) |
|  | **Horsens** |  18,126  |  7,285  | 40.2 (39.5-40.9) | 26.5 (25.9-27.2) | 11.5 (11.0-11.9) | 2.2 (2.0-2.4) |
|  | **Struer** |  4,014  |  1,623  | 40.4 (38.9-42.0) | 24.2 (22.9-25.6) | 14.6 (13.6-15.8) | 1.6 (1.2-2.0) |
|  | **Viborg** |  20,074  |  8,124  | 40.5 (39.8-41.2) | 26.0 (25.4-26.7) | 11.8 (11.4-12.3) | 2.6 (2.4-2.8) |
|  | **Randers** |  18,755  |  7,774  | 41.5 (40.7-42.2) | 26.4 (25.7-27.0) | 13.0 (12.5-13.5) | 2.1 (1.9-2.3) |
|  | **Syddjurs** |  7,932  |  3,407  | 43.0 (41.9-44.0) | 27.9 (26.9-28.9) | 12.7 (12.0-13.4) | 2.4 (2.1-2.7) |
|  | **Norddjurs** |  6,457  |  2,915  | 45.1 (43.9-46.4) | 28.8 (27.7-29.9) | 14.3 (13.5-15.2) | 2.0 (1.7-2.4) |
| **Region****South** | **Fanø** | 571  |  189  | 33.1 (29.4-37.1) | 23.1 (19.8-26.8) | 8.4 (6.4-11.0) | 1.6 (0.8-3.0) |
| **Vejle** |  23,501  |  9,144  | 38.9 (38.3-39.5) | 25.1 (24.6-25.7) | 11.6 (11.2-12.0) | 2.1 (2.0-2.3) |
|  | **Varde** |  9,978  |  3,930  | 39.4 (38.4-40.3) | 23.1 (22.3-23.9) | 13.4 (12.7-14.0) | 2.6 (2.3-3.0) |
|  | **Esbjerg** |  21,910  |  8,916  | 40.7 (40.0-41.3) | 22.9 (22.3-23.5) | 14.7 (14.2-15.2) | 3.1 (2.9-3.4) |
|  | **Billund** |  5,367  |  2,205  | 41.1 (39.8-42.4) | 23.8 (22.7-24.9) | 14.4 (13.5-15.4) | 2.9 (2.5-3.4) |
|  | **Middelfart** |  7,486  |  3,087  | 41.2 (40.1-42.4) | 24.7 (23.7-25.7) | 14.5 (13.7-15.3) | 2.0 (1.7-2.4) |
|  | **Kolding** |  18,778  |  7,852  | 41.8 (41.1-42.5) | 27.3 (26.7-28.0) | 12.8 (12.3-13.3) | 1.7 (1.5-1.9) |
| **Region****South (cont.)** | **Vejen** |  8,860  |  3,736  | 42.2 (41.1-43.2) | 24.9 (24.0-25.8) | 14.7 (14.0-15.4) | 2.6 (2.3-3.0) |
| **Aabenraa** |  11,248  |  4,757  | 42.3 (41.4-43.2) | 25.4 (24.6-26.2) | 14.1 (13.5-14.8) | 2.8 (2.5-3.1) |
| **Nyborg** |  6,033  |  2,577  | 42.7 (41.5-44.0) | 20.0 (19.0-21.0) | 20.4 (19.4-21.5) | 2.3 (2.0-2.7) |
|  | **Sønderborg** |  13,872  |  5,988  | 43.2 (42.3-44.0) | 25.3 (24.6-26.0) | 14.5 (13.9-15.0) | 3.4 (3.1-3.7) |
|  | **Faaborg-Midtfyn** |  9,833  |  4,276  | 43.5 (42.5-44.5) | 22.4 (21.6-23.2) | 19.0 (18.3-19.8) | 2.0 (1.8-2.3) |
|  | **Tønder** |  6,943  |  3,022  | 43.5 (42.4-44.7) | 25.4 (24.4-26.5) | 15.0 (14.2-15.9) | 3.1 (2.7-3.5) |
|  | **Haderslev** |  10,611  |  4,640  | 43.7 (42.8-44.7) | 26.8 (26.0-27.6) | 13.9 (13.3-14.6) | 3.0 (2.7-3.4) |
|  | **Odense** |  35,988  |  15,808  | 43.9 (43.4-44.4) | 22.8 (22.4-23.3) | 19.3 (18.9-19.7) | 1.8 (1.7-1.9) |
|  | **Nordfyns** |  5,705  |  2,506  | 43.9 (42.6-45.2) | 23.8 (22.7-24.9) | 18.3 (17.4-19.4) | 1.8 (1.5-2.2) |
|  | **Kerteminde** |  4,421  |  1,943  | 43.9 (42.5-45.4) | 23.7 (22.5-25.0) | 18.4 (17.3-19.6) | 1.8 (1.5-2.3) |
|  | **Assens** |  8,088  |  3,574  | 44.2 (43.1-45.3) | 22.5 (21.6-23.4) | 19.1 (18.3-20.0) | 2.6 (2.3-3.0) |
|  | **Fredericia** |  9,944  |  4,532  | 45.6 (44.6-46.6) | 24.4 (23.6-25.3) | 18.6 (17.8-19.4) | 2.5 (2.3-2.9) |
|  | **Svendborg** |  10,688  |  4,952  | 46.3 (45.4-47.3) | 25.0 (24.1-25.8) | 19.1 (18.4-19.9) | 2.3 (2.0-2.6) |
|  | **Ærø** | 789  |  377  | 47.8 (44.3-51.3) | 28.8 (25.7-32.0) | 18.1 (15.6-21.0) | 0.9 (0.4-1.9) |
|  | **Langeland** |  1,723  |  832  | 48.3 (45.9-50.7) | 25.4 (23.4-27.5) | 21.0 (19.1-23.0) | 1.9 (1.4-2.7) |
| **Capital** | **Allerød** |  5,683  |  1,649  | 29.0 (27.9-30.2) | 19.6 (18.6-20.7) | 7.9 (7.3-8.7) | 1.5 (1.2-1.8) |
| **Region** | **Gentofte** |  16,038  |  4,884  | 30.5 (29.7-31.2) | 21.7 (21.1-22.4) | 7.7 (7.3-8.1) | 1.0 (0.9-1.2) |
|  | **Rudersdal** |  12,071  |  3,876  | 32.1 (31.3-32.9) | 21.2 (20.5-22.0) | 9.6 (9.0-10.1) | 1.3 (1.1-1.6) |
|  | **Furesø** |  9,050  |  2,952  | 32.6 (31.7-33.6) | 21.4 (20.5-22.2) | 9.6 (9.0-10.2) | 1.7 (1.4-2.0) |
|  | **Vallensbæk** |  3,564  |  1,163  | 32.6 (31.1-34.2) | 19.8 (18.5-21.1) | 11.5 (10.5-12.6) | 1.3 (1.0-1.8) |
|  | **Hørsholm** |  4,894  |  1,598  | 32.7 (31.4-34.0) | 23.1 (21.9-24.3) | 8.4 (7.6-9.2) | 1.2 (1.0-1.6) |
|  | **Lyngby-Taarbæk** |  11,220  |  3,815  | 34.0 (33.1-34.9) | 22.8 (22.0-23.5) | 9.8 (9.2-10.3) | 1.5 (1.3-1.7) |
|  | **Frederiksberg** |  17,653  |  6,011  | 34.1 (33.4-34.8) | 20.9 (20.3-21.5) | 11.4 (10.9-11.8) | 1.8 (1.6-2.0) |
|  | **Egedal** |  9,788  |  3,397  | 34.7 (33.8-35.7) | 21.5 (20.7-22.3) | 11.3 (10.7-12.0) | 1.9 (1.6-2.2) |
|  | **Dragør** |  3,072  |  1,086  | 35.4 (33.7-37.1) | 24.8 (23.3-26.3) | 9.2 (8.2-10.3) | 1.4 (1.0-1.9) |
|  | **Hillerød** |  10,636  |  3,798  | 35.7 (34.8-36.6) | 22.3 (21.5-23.1) | 11.6 (11.0-12.2) | 1.8 (1.6-2.1) |
|  | **Tårnby** |  8,916  |  3,186  | 35.7 (34.7-36.7) | 22.0 (21.1-22.9) | 12.0 (11.4-12.7) | 1.7 (1.5-2.0) |
|  | **Gladsaxe** |  14,385  |  5,177  | 36.0 (35.2-36.8) | 20.6 (20.0-21.3) | 13.3 (12.8-13.9) | 2.0 (1.8-2.3) |
|  | **Glostrup** |  4,298  |  1,565  | 36.4 (35.0-37.9) | 19.9 (18.8-21.2) | 14.2 (13.2-15.3) | 2.2 (1.8-2.7) |
|  | **København** | 101,133  |  36,907  | 36.5 (36.2-36.8) | 20.5 (20.3-20.8) | 13.7 (13.5-13.9) | 2.3 (2.2-2.4) |
|  | **Hvidovre** |  10,885  |  4,065  | 37.3 (36.4-38.3) | 21.3 (20.6-22.1) | 13.5 (12.9-14.2) | 2.5 (2.2-2.8) |
|  | **Ishøj** |  4,867  |  1,822  | 37.4 (36.1-38.8) | 19.1 (18.0-20.2) | 16.0 (15.0-17.1) | 2.3 (2.0-2.8) |
|  | **Høje-Taastrup** |  10,530  |  4,022  | 38.2 (37.3-39.1) | 19.9 (19.2-20.7) | 15.6 (15.0-16.3) | 2.6 (2.4-3.0) |
|  | **Fredensborg** |  8,326  |  3,184  | 38.2 (37.2-39.3) | 23.6 (22.7-24.5) | 12.6 (11.9-13.3) | 2.1 (1.8-2.4) |
|  | **Rødovre** |  7,690  |  2,997  | 39.0 (37.9-40.1) | 21.2 (20.3-22.1) | 15.9 (15.1-16.7) | 1.9 (1.6-2.2) |
|  | **Ballerup** |  9,741  |  3,828  | 39.3 (38.3-40.3) | 20.6 (19.8-21.4) | 16.0 (15.3-16.7) | 2.7 (2.4-3.1) |
|  | **Brøndby** |  6,999  |  2,776  | 39.7 (38.5-40.8) | 22.1 (21.1-23.1) | 15.8 (15.0-16.7) | 1.8 (1.5-2.1) |
|  | **Gribskov** |  7,473  |  2,969  | 39.7 (38.6-40.8) | 23.2 (22.3-24.2) | 13.8 (13.0-14.6) | 2.7 (2.3-3.1) |
|  | **Frederikssund** |  8,766  |  3,497  | 39.9 (38.9-40.9) | 23.2 (22.3-24.1) | 14.2 (13.5-14.9) | 2.5 (2.2-2.8) |
|  | **Herlev** |  5,970  |  2,417  | 40.5 (39.2-41.7) | 21.8 (20.8-22.9) | 16.1 (15.2-17.1) | 2.5 (2.2-3.0) |
|  | **Albertslund** |  5,819  |  2,372  | 40.8 (39.5-42.0) | 21.1 (20.0-22.1) | 17.4 (16.5-18.4) | 2.3 (1.9-2.7) |
|  | **Helsingør** |  11,738  |  4,795  | 40.9 (40.0-41.7) | 24.8 (24.0-25.6) | 14.1 (13.5-14.7) | 1.9 (1.7-2.2) |
|  | **Halsnæs** |  5,480  |  2,261  | 41.3 (40.0-42.6) | 21.7 (20.7-22.8) | 16.9 (16.0-18.0) | 2.6 (2.2-3.0) |
|  | **Bornholm (and Christiansø)** | 6,238  |  2,593  | 41.6 (40.3-42.8) | 25.3 (24.3-26.4) | 13.5 (12.7-14.4) | 2.7 (2.3-3.1) |
| **Region**  | **Solrød** |  4,860  |  1,703  | 35.0 (33.7-36.4) | 22.4 (21.3-23.6) | 11.0 (10.2-11.9) | 1.6 (1.3-2.0) |
| **Zealand** | **Roskilde** |  17,256  |  6,256  | 36.3 (35.5-37.0) | 21.6 (21.0-22.2) | 12.6 (12.1-13.1) | 2.1 (1.9-2.3) |
|  | **Greve** |  10,375  |  3,799  | 36.6 (35.7-37.5) | 21.3 (20.5-22.1) | 13.5 (12.9-14.2) | 1.8 (1.6-2.1) |
|  | **Lejre** |  5,742  |  2,227  | 38.8 (37.5-40.1) | 23.8 (22.7-24.9) | 13.3 (12.5-14.2) | 1.6 (1.3-2.0) |
|  | **Stevns** |  4,050  |  1,581  | 39.0 (37.5-40.5) | 22.9 (21.6-24.2) | 13.7 (12.7-14.8) | 2.5 (2.0-3.0) |
|  | **Sorø** |  5,855  |  2,379  | 40.6 (39.4-41.9) | 21.3 (20.3-22.3) | 16.9 (16.0-17.9) | 2.4 (2.1-2.9) |
|  | **Køge** |  12,263  |  5,004  | 40.8 (39.9-41.7) | 22.6 (21.8-23.3) | 16.1 (15.4-16.7) | 2.2 (1.9-2.5) |
|  | **Holbæk** |  14,171  |  5,964  | 42.1 (41.3-42.9) | 24.4 (23.7-25.1) | 15.1 (14.5-15.7) | 2.6 (2.3-2.9) |
|  | **Ringsted** |  6,862  |  2,928  | 42.7 (41.5-43.8) | 22.4 (21.4-23.4) | 18.1 (17.2-19.0) | 2.2 (1.9-2.6) |
|  | **Guldborgsund** |  10,061  |  4,389  | 43.6 (42.7-44.6) | 21.4 (20.6-22.2) | 19.5 (18.7-20.3) | 2.7 (2.4-3.0) |
|  | **Odsherred** |  5,166  |  2,262  | 43.8 (42.4-45.1) | 24.3 (23.1-25.4) | 16.7 (15.7-17.7) | 2.8 (2.4-3.3) |
|  | **Kalundborg** |  8,997  |  3,951  | 43.9 (42.9-44.9) | 24.3 (23.4-25.2) | 17.3 (16.5-18.0) | 2.4 (2.1-2.7) |
|  | **Slagelse** |  14,354  |  6,305  | 43.9 (43.1-44.7) | 22.2 (21.6-22.9) | 18.8 (18.1-19.4) | 2.9 (2.6-3.2) |
|  | **Næstved** |  15,629  |  6,910  | 44.2 (43.4-45.0) | 25.3 (24.6-25.9) | 16.4 (15.8-17.0) | 2.5 (2.3-2.8) |
|  | **Faxe** |  6,728  |  3,042  | 45.2 (44.0-46.4) | 25.3 (24.2-26.3) | 16.9 (16.0-17.8) | 3.0 (2.6-3.5) |
|  | **Vordingborg** |  7,889  |  3,707  | 47.0 (45.9-48.1) | 26.5 (25.5-27.4) | 17.5 (16.7-18.3) | 3.1 (2.7-3.5) |
|  | **Lolland** |  6,508  |  3,069  | 47.2 (45.9-48.4) | 24.3 (23.2-25.3) | 19.8 (18.9-20.8) | 3.1 (2.7-3.5) |

# Supplementary table 2

**Post-hoc analyses of what constituted the severity group of minor parental mental health conditions. Percentages are based on the total number of children with minor parental mental health conditions (N=259,508)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Psychologista** | **General practitionerb** | **Medicationc** | **A combination of psychologist, general practitioner and medication** | **Total** |
|  | **% (95% CI)** | **% (95% CI)** | **% (95% CI)** | **% (95% CI)** | **% (95% CI)** |
| **Psychologista** | 21.9 (21.7-22.1) | 4.2 (4.1-4.3) | 11.7 (11.6-11.9) | 5.5 (5.5-5.6) | 43.4 (43.2-43.6) |
| **General practitionerb** | 4.2 (4.1-4.3) | 11.1 (11.0-11.2) | 8.5 (8.3-8.6) | 5.5 (5.5-5.6) | 29.3 (29.1-29.5) |
| **Medicationc** | 11.7 (11.6-11.9) | 8.5 (8.3-8.6) | 37.1 (36.9-37.2) | 5.5 (5.5-5.6) | 62.8 (62.6-63.0) |
| *a At least one reimbursed contact with a private psychologist**b At least two psychometric tests or two sessions of talk therapy with a general practitioner. Only 1.4 % (95% CI: 1.3-1.4) of the children had a parent who only had two psychometric tests**c At least two redeemed prescriptions of anxiolytic or antidepressant medication* |