**Supplementary content**

Hansen H.G., Starzer M., Gjøde I.C.T., al. **Clinical illness course and family-related outcomes among parents with a first episode of schizophrenia spectrum disorder – A 20-year follow-up of the OPUS trial**

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**eTable 1: Predictors of parenthood from the univariate analysis,**

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| **Univariate logistic regression**  |  |
| **Variables** | **OR (95% CI)** | **P-value** |
| Age | 0.87 (0.84-0.91) | **.000** |
| Female | 1.81 (1.24-2,63) | **.002** |
| In a relationship | 2.03 (1.35-3.03) | **.001** |
| Studying or working | 1.77 (1.20-2.61) | **.004** |
| Schizophrenia (1) |  | .558 |
| Skizotypal disorders | 1.05 (0.62-1.79) | .855 |
| Others diagnoses | 0.77 (0.46-1.28) | .311 |
| Substance abuse | 0.65 (0.39-1.07) | .088 |
| Psychotic symptoms  | 1.22 (0.80-1.86) | .350 |
| Negative symptoms  | 1.78 (1.19-2.67) | **.005** |
| Poorer level of premorbid social function (0-4)\* | 0.48 (0.34-0.68) | **.000** |
| Poorer level of premorbid academic functioning (0-4)\* | 0.79 (0.58-1.06) | .116 |
| Higher level of global functioning (1-100) | 1.04 (1.02-1.05) | **.000** |

\*Premorbid social and academic functioning scores are reported as the sum of the composite scores (0-1) of all four sections

**eTable 2: Predictors of parenthood from the multivariate analysis,**

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| **Multivariate logistic regression**  |  |
| **Variables** | **OR (95% CI)** | **P-value** |
| Age | 0.87 (0.87-0.83) | **.000** |
| In a relationship | 1.95 (1.23-3.10) | **.004** |
| Sum score of premorbid social function (0-4)\* | 0.45 (0.30-0.66) | **.000** |
| Higher level of global functioning (1-100) | 1.03 (1.01-1.04) | **.000** |

\*Premorbid social and academic functioning scores are reported as the sum of the composite scores (0-1) of all four sections

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| **eTable 3.**  Clinical baseline characteristics among 75 parents and 99 non-parents |
|  | All, n= 174 | Parents, n= 75 (43%) | Non-parents, n= 99 (57%) | P value |
| *Sociodemographic variables at baseline, n (%)* |
| Female | 87 (50.0) | 44 (58.7) |  43 (43.4) | **.047** |
| Age at inclusion, mean (SD) | 25.47 (5.57) | 25.76 (6.13) | 25.25 (5.12) | .553 |
| Independent living  | 157 (94.0) | 71 (95.9) |  86 (92.5) | .347 |
| In a relationship | 44 (25.4) |  28 (37.8) |  16 (16.2) | **.001** |
| married | 11 (6.4) | 9 (12.2) | 2 (2.0) | **.007** |
| Working or studying  | 59 (34.5) | 26 (35.6) | 33 (33.7) | .791 |
| Being a parent before study inclusion  | 20 (11.6) | 20 (27.0) | 0 (0.0) | .00 |
| *Duration of untreated psychosis (DUP in weeks), median (range)8* |
| DUP, Median (range) | 31.00 (0-848.00) | 31.00 (0-848.00) | 29.50 (0-840.29) | .240 |
| *Premorbid functioning, mean (SD)* |
| PAS, mean (SD), Social adaptation | 0.77 (0.57) | 0.67 (0.53) | 0.84 (0.58) | **.039** |
| PAS, mean (SD), Academic adaptation | 0.96 (0.60) | 0.99 (0.63) | 0.94 (0.58) | .573 |
| *Psychopathology, mean (SD)* |
| SAPS (hallucinations + delusions)  | 2.64 (1.52) | 2.99 (1.43) | 2.38 (1.55) | .**008** |
| SANS (all items)  | 1.96 (1.11) | 1.77 (1.19) | 2.10 (1.04) | .059 |
| Disorganized symptoms | 0.89 (0.90) | 0.86 (0.89) | 0.91 (0.91) | .703 |
| *Global functioning, mean (SD)* |
| GAF-F | 43.88 (13.29) | 44.18 (13.75) | 43.67 (13.00) | .804 |
| *Diagnoses, ICD-10, n (%), baseline* |
| Substance abuse  | 44 (25.3) | 18 (24.0) | 26 (26.3) | .734 |
| Schizophrenia (F20)  | 113 (64.9) | 51 (68.0) | 62 (62.6) | .110 |
| Schizotypal disorder (F21) | 30 (17.2) | 8 (10.7) | 22 (22.2) |
| Others (F22-F29)  | 31 (17.8) | 16 (21.3) | 15 (15.2) |
| OPUS-treatment  | 84 (48.3) | 36 (48.0) | 48 (48.5) | .973 |

Abbreviations: GAF-F, Global Assessment of Functioning Scale; PAS, Premorbid Adjustment Scale; DUP, Duration of Untreated Psychosis; SAPS, scale for Assessment for Positive Symptoms; SANS, Scale for Assessment of Negative Symptoms; ICD-10, International Statistical Classification of Diseases, Tenth Revision, OPUS, two-year intensive early intervention program.

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| **eTable 4. Baseline characteristics among participants and non-participants at 20-year follow-up**  |
|  | All, n=578 | Participants,n=174 | Non-participants, n=404 | P value |
| *Sociodemographics, n (%)* |
| Age, mean (SD) | 26.53 (6.30) | 25.46 (5.6) | 26.99 (6.53) | **.002** |
| Sex, Female  | 235 (40.7) | 86 (49.7) | 149 (36.8) | **.004** |
| Studying or working  | 178 (30.8) | 58 (33.5) | 120 (29.6) | .353 |
| Completed high school | 191 (33.0) | 72 (41.4) | 119 (29.5) | **.004** |
| Married  | 31 (5.4) | 10 (5.8) | 21 (5.3) | .785 |
| Being a parent | 81 (14.0) | 20 (11.4) | 61 (15.1) | .250 |
| *Premorbid functioning, mean (SD)* |
| Premorbid social functioning1 | 0.76 (0.59) | 0.77 (0.57) | 0.76 (0.60) | .816 |
| Premorbid academic functioning2 | 1.00 (0.63) | 0.96 (0.60) | 1.01 (0.65) | .348 |
| *Living conditions, n (%)* |
| Independent living | 438 (76.7) | 139 (80.8) | 299 (74.9) | .230 |
| *Symptom dimension, mean (SD)* |
| Psychotic dimension3  | 2.72 (1.46) | 2.64 (1.52) | 2.75 (1.43) | .430 |
| Negative dimension4 | 2.19 (1.16) | 1.96 (1.11) | 2.29 (1.17) | **.002** |
| Disorganized dimension5 | 1.02 (0.94) | 0.89 (0.90) | 1.08 (0.95) | **.032** |
| *Global functioning score, mean (SD)* |
| GAF-F6, Function scale | 40.93 (13.23) | 43.79 (13.27) | 39.70 (13.03) | **<.001** |
| GAF-S7, Symptom scale | 33.30 (10.60) | 34.74 (10.45) | 32.68 (10.61) | **.033** |
| *Diagnoses, ICD-10, baseline n (%)* |
| Alcohol/substance use disorder | 115 (19.9) | 32 (18.5) | 83 (20.5) | .582 |
| Schizophrenia (F20)  | 388 (78.2) | 112 (79.0) | 276 (77.9) | .364 |
| Schizotypal disorder (F21) | 82 (14.2) | 30 (17.3) | 52 (12.8) |
| Others (F22-25)(F28-F29)  | 108 (18.7) | 31 (17.9.7) | 77 (19.0) |
| *Duration of untreated psychosis (DUP in weeks), median (range)8* |
| DUP8 | 34.36 (0-1248) | 31.00 (0-848) | 34.86 (0-1248) | .482 |

1 Premorbid Adjustment Scale (Premorbid social functioning)

2 Premorbid Adjustment Scale (Premorbid academic functioning)

3 Scale for Assessment for Positive Symptoms (SAPS)

4 Scale for Assessment of Negative Symptoms (SANS)

5 Disorganized symptoms were assessed using SANS and SAPS

6 Global Assessment of Functioning (Function scale)

7 Global Assessment of Functioning (Symptom scale)

8 Duration of Untreated Psychosis (DUP)

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| **eTable 5. Register-based outcomes (without attrition) among participants and non-participants at the 20-year follow-up divided between parents and non-parents** |
|  | All, n=578 | Participating parents,n=75  | Non-participating parents, n=144 | P value | Participants without children,n=99 | Non-participants without children, n=260 | P value |
| *Longitudinal register-based data with information on all participants (without attrition), mean (SD)* |
| Days of psychiatric hospitalizations between year 10-20 | 112.30 (346.57) | 36.47 (102.23) | 111.11 (416.17) | .085 | 81.52 (191.88) | 146.60 (389.69) | .604 |
| Number of outpatient contacts between years 10-20 | 56.43 (112.83) | 30.59 (54.38) | 35.90 (91.70) | .441 | 71.41 (103.55) | 69.05 (134.50) | .107 |
| Supported housing year 201, n (%) | 14 (2.4) | 1 (1.3) | 1 (0.7) | .593 | 1 (1.0) | 11 (4.2) | .069 |
| Any work2, n (%) | 134 (23.2) | 36 (48.0) | 43 (29.9) | **.008** | 28 (28.3) | 25 (9.6) | **<.001** |
| Work3, n (%) | 76 (13.1) | 25 (33.3) | 28 (19.4) | **.023** | 15 (15.2) | 8 (3.1) | **<.001** |

1Use of supported housing facilities and homeless shelters at the previous year up to the 20-year follow-up

2Full- or part-time employment (with/ without supported employment benefits) 50% of the past year before the 20-year follow-up

3In full-time employment without supported employment benefits 50% of the past year before the 20-year follow-up

\*This figure is descriptive and stratifies on gender among parents and non-parents.

1 GAF-F, Global Assessment of Functioning scale ranging from 0-100 with higher scores indicating better global functional performance.