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Table 1: Rate of marked improvement at discharge according to factors tested
(N=869; mean rate of marked improvement=69%)

<table>
<thead>
<tr>
<th>Sample size</th>
<th>Marked improvement</th>
<th>95% CI</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>N (%)</td>
<td>N (%)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Social and demographic characteristics

Educational level
- high school and over: 305 (35.1) 247 (81.0) [77;85] p < 0.0001
- secondary: 404 (46.5) 267 (66.1) [61;71]
- primary or less or unknown: 155 (17.8) 82 (52.9) [45;61]

Occupational status
- occupational activity or training: 256 (29.5) 216 (84.4) [80;89] p < 0.0001
- receiving unemployment benefits: 102 (11.7) 66 (64.7) [55;74]
- receiving disability payments: 114 (13.1) 53 (46.5) [37;56]
- on sick leave from work: 149 (17.2) 120 (80.5) [74;87]
- not in labor force: 118 (13.6) 74 (62.7) [54;71]
- other (state allowance,...): 130 (15.0) 70 (53.9) [45;62]

Last employment category
- professional: 92 (10.6) 78 (84.8) [77;92] p < 0.0001
- intermediate: 167 (19.2) 138 (82.6) [77;88]
- clerical or sales: 282 (32.5) 211 (74.8) [70;80]
- workers, artisan or farmer: 108 (12.4) 65 (60.2) [51;69]
- no known profession: 220 (25.3) 107 (48.6) [42;55]

Country of birth
- France: 698 (83.6) 476 (68.2) [65;72] p = 0.92
- Other: 137 (16.4) 94 (68.6) [61;76]

Maternal age at admission (years)
- 25-35: 105 (12.1) 60 (57.1) [48;67] p = 0.01
- < 25: 541 (62.3) 390 (72.1) [68;76]
- > 35: 223 (25.7) 149 (66.8) [61;73]

Living with a partner (married or cohabiting)
- yes: 569 (65.5) 436 (76.6) [73;80] p < 0.0001
- no: 300 (34.5) 163 (54.3) [49;60]

Maternal mental illness

Index diagnosis
- depressive episode and recurrent depressive disorder: 158 (18.1) 137 (86.7) [81;92] p < 0.0001
- psychotic affective disorders: 207 (23.8) 171 (82.6) [77;88]
- schizophrenia and other non-affective psychotic disorders: 116 (13.3) 54 (46.6) [38;56]
- acute and transient psychotic disorders: 41 (4.7) 35 (85.4) [75;96]
- adult personality or behavior disorder: 106 (12.) 42 (39.6) [30;49]
- neurotic and other mood disorders: 146 (16.8) 121 (82.9) [77;89]
- other diseases and disorders: 94 (10.8) 38 (40.4) [30;50]

Psychiatric history
- no known pathology: 166 (19.1) 133 (80.1) [74;86] p < 0.0001
- psychotic disorders: 194 (27.3) 118 (60.8) [54;68]
- mood disorders: 289 (33.3) 235 (81.3) [77;86]
- behavioral disorders: 95 (10.0) 38 (40.0) [30;50]
- other disorders or missing: 125 (14.4) 75 (60.0) [51;69]
### History of trauma in childhood

#### Foster care in childhood
- no: 660 (76.0) 471 (71.4)  [68;75]  \( p = 0.006 \)
- yes: 209 (24.0) 128 (61.2)  [55;68]

#### Abuse in childhood and adolescence
- no: 608 (70.0) 442 (72.7)  [69;76]  \( p < 0.0001 \)
- abuse other than sexual: 141 (16.2) 71 (50.4)  [42;59]
- sexual abuse: 120 (13.8) 86 (71.7)  [64;80]

### Pregnancy and birth

#### Mean age of baby at admission (weeks)
- 869: 9.1  [8.3;9.8]  \( p = 0.78 \)

#### Parity
- primiparous: 540 (62.1) 372 (68.9)  [65;73]  \( p = 0.19 \)
- secundiparous: 190 (21.9) 140 (73.7)  [67;80]
- over secundiparous: 124 (14.3) 77 (62.1)  [54;71]

#### Obstetric(pregnancy) complication
- no known complication: 648 (74.6) 444 (68.5)  [65;72]  \( p = 0.65 \)
- complications: 221 (24.4) 155 (70.1)  [64;76]

#### Child transferred to neonatal intensive care unit
- no: 688 (79.2) 490 (71.2)  [68;75]  \( p = 0.004 \)
- yes: 181 (20.8) 109 (60.2)  [53;67]

### Characteristics at admission

#### Legal status at admission
- informal: 800 (92.0) 552 (69.0)  [66;72]  \( p = 0.95 \)
- involuntary admission: 67 (8.0) 46 (68.7)  [58;80]

#### Partner characteristics*

#### Mental and behavioral disorders
- no psychiatric disorder: 426 (49.0) 333 (78.2)  [74;82]  \( p < 0.0001 \)
- bipolar or depressive disorders: 38 (4.4) 23 (60.5)  [45;76]
- schizophrenia or other psychotic disorders: 28 (3.2) 12 (42.9)  [25;61]
- behavioral disorders: 54 (6.2) 34 (63.0)  [50;76]
- other disorders: 67 (7.7) 41 (61.2)  [50;73]
- unknown: 256 (29.5) 156 (60.9)  [55;67]

#### Occupational status
- occupational activity or training: 588 (67.7) 446 (75.9)  [72;79]  \( p < 0.0001 \)
- receiving unemployment or disability benefits or paid sick leave from work: 110 (12.7) 70 (63.6)  [55;73]
- other (at home, state allowance...): 82 (9.4) 43 (52.4)  [42;63]
- unknown: 89 (10.2) 40 (44.9)  [35;55]

### Treatments for mental illness during pregnancy

#### Neuroleptics
- no: 659 (75.8) 466 (70.7)  [67;74]  \( p = 0.04 \)
- yes: 210 (24.2) 133 (63.3)  [57;70]

#### Anxiolytic/antidepressor/thymoregulator during pregnancy
- no: 620 (71.3) 440 (71.0)  [67;75]  \( p = 0.04 \)
- yes: 249 (28.7) 159 (63.9)  [58;70]

### Drug taking behavior during pregnancy
### Tobacco

<table>
<thead>
<tr>
<th></th>
<th>No (N = 811)</th>
<th>Yes (N = 56)</th>
<th>P-value</th>
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<tbody>
<tr>
<td>Tobacco</td>
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<tr>
<td>- No</td>
<td>561 (64.6%)</td>
<td>419 (74.7%)</td>
<td>[71;78]</td>
</tr>
<tr>
<td>- Yes</td>
<td>308 (34.4%)</td>
<td>180 (58.4%)</td>
<td>[53;64]</td>
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</table>

*p < 0.0001

### Alcohol

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<th>Yes (N = 56)</th>
<th>P-value</th>
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<td>Alcohol</td>
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<tr>
<td>- No</td>
<td>811 (93.3%)</td>
<td>567 (69.9%)</td>
<td>[67;73]</td>
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<tr>
<td>- Yes</td>
<td>58 (6.7%)</td>
<td>32 (55.2%)</td>
<td>[42;68]</td>
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</table>

*p = 0.02

### Drug use

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<th>Yes (N = 56)</th>
<th>P-value</th>
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<tbody>
<tr>
<td>Drug use</td>
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<tr>
<td>- No</td>
<td>804 (92.5%)</td>
<td>570 (70.9%)</td>
<td>[68;74]</td>
</tr>
<tr>
<td>- Yes</td>
<td>65 (7.5%)</td>
<td>32 (55.2%)</td>
<td>[42;68]</td>
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</table>

*p < 0.0001

### Unit characteristics

#### Size of unit

<table>
<thead>
<tr>
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<th>No (N = 811)</th>
<th>Yes (N = 56)</th>
<th>P-value</th>
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<tbody>
<tr>
<td>Size of unit</td>
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<tr>
<td>- Large unit</td>
<td>483 (55.6%)</td>
<td>315 (65.2%)</td>
<td>[61;69]</td>
</tr>
<tr>
<td>- Medium unit</td>
<td>263 (30.3%)</td>
<td>202 (76.8%)</td>
<td>[72;82]</td>
</tr>
<tr>
<td>- Small unit</td>
<td>123 (14.1%)</td>
<td>82 (66.7%)</td>
<td>[58;75]</td>
</tr>
</tbody>
</table>

*p = 0.004

#### Unit director's professional domain

<table>
<thead>
<tr>
<th></th>
<th>No (N = 811)</th>
<th>Yes (N = 56)</th>
<th>P-value</th>
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<tbody>
<tr>
<td>Unit director's professional domain</td>
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<td></td>
</tr>
<tr>
<td>- Child psychiatrist</td>
<td>424 (48.8%)</td>
<td>275 (64.9%)</td>
<td>[60;69]</td>
</tr>
<tr>
<td>- Adult psychiatrist</td>
<td>445 (51.2%)</td>
<td>324 (72.8%)</td>
<td>[69;77]</td>
</tr>
</tbody>
</table>

*p = 0.01

*partner and, if no partner, baby's father
Table 2: Model for maternal marked improvement at discharge (N = 814; ORb logistic regression per variable*; ORa multivariable logistic regression *)

<table>
<thead>
<tr>
<th>Social and demographic characteristics</th>
<th>ORb (CI)</th>
<th>p</th>
<th>ORa (CI)</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Educational level</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>- high school and over</td>
<td>1</td>
<td>p &lt;0.0001*</td>
<td>1</td>
<td>p = 0.54</td>
</tr>
<tr>
<td>- secondary</td>
<td>0.46 [0.32;0.65]</td>
<td>0.88 [0.54;1.46]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- primary or less or unknown</td>
<td>0.28 [0.18;0.43]</td>
<td>1.23 [0.64;2.48]</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Occupational status</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- occupational activity or training</td>
<td>1</td>
<td>p &lt;0.0001*</td>
<td>1</td>
<td>p = 0.02*</td>
</tr>
<tr>
<td>- receiving unemployment benefits</td>
<td>0.34 [0.20;0.58]</td>
<td>0.50 [0.26;0.98]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- receiving disability payments</td>
<td>0.16 [0.10;0.27]</td>
<td>0.37 [0.18;0.76]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- on sick leave from work</td>
<td>0.77 [0.45;1.30]</td>
<td>0.83 [0.44;1.57]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- not in labor force</td>
<td>0.31 [0.19;0.52]</td>
<td>0.36 [0.18;0.70]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- other (state allowance,...)</td>
<td>0.23 [0.14;0.38]</td>
<td>0.46 [0.23;0.93]</td>
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<tr>
<td><strong>Last employment category</strong></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- professional</td>
<td>1</td>
<td>p &lt;0.0001*</td>
<td>1</td>
<td>p = 0.31</td>
</tr>
<tr>
<td>- intermediate</td>
<td>0.85 [0.43;1.71]</td>
<td>0.98 [0.44;2.22]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- clerical or sales</td>
<td>0.53 [0.28;1.00]</td>
<td>0.93 [0.41;2.08]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- workers, artisan or farmer</td>
<td>0.27 [0.14;0.54]</td>
<td>0.53 [0.21;1.33]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- no known profession</td>
<td>0.17 [0.09;0.31]</td>
<td>0.60 [0.24;1.50]</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Country of birth</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- France</td>
<td>1</td>
<td>p = 0.13</td>
<td>1</td>
<td>p = 0.18</td>
</tr>
<tr>
<td>- Other</td>
<td>1.02 [0.69;1.51]</td>
<td>1.44 [0.85;2.42]</td>
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</tr>
<tr>
<td><strong>Maternal age at admission (years)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- 25-35</td>
<td>1</td>
<td>p = 0.01*</td>
<td>1</td>
<td>p = 0.20</td>
</tr>
<tr>
<td>- &lt; 25</td>
<td>0.52 [0.34;0.79]</td>
<td>1.13 [0.63;2.04]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- &gt; 35</td>
<td>0.78 [0.56;1.09]</td>
<td>0.68 [0.44;1.06]</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Living with a partner (married or cohabiting)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- yes</td>
<td>1</td>
<td>p &lt;0.0001*</td>
<td>1</td>
<td>p = 0.98</td>
</tr>
<tr>
<td>- no</td>
<td>0.36 [0.27;0.49]</td>
<td>1.01 [0.63;1.60]</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Maternal mental illness</strong></td>
<td></td>
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<tr>
<td><strong>Index diagnosis</strong></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>- depressive episode and recurrent depressive disorder</td>
<td>1</td>
<td>p &lt;0.0001*</td>
<td>1</td>
<td>p &lt;0.0001*</td>
</tr>
<tr>
<td>- psychotic affective disorders</td>
<td>0.68 [0.37;1.24]</td>
<td>1.07 [0.51;2.22]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- schizophrenia and other non-affective psychotic disorders</td>
<td>0.13 [0.07;0.24]</td>
<td>0.27 [0.12;0.61]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- acute and transient psychotic disorders</td>
<td>0.77 [0.29;2.10]</td>
<td>0.42 [0.14;1.28]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- adult personality or behavior disorder</td>
<td>0.09 [0.05;0.18]</td>
<td>0.21 [0.10;0.44]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- neurotic or other mood disorders</td>
<td>0.72 [0.37;1.40]</td>
<td>0.88 [0.43;1.81]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- other diseases and disorders</td>
<td>0.10 [0.05;0.19]</td>
<td>0.22 [0.10;0.48]</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Psychiatric history</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- no known pathology</td>
<td>1</td>
<td>p &lt;0.0001*</td>
<td>1</td>
<td>p = 0.47</td>
</tr>
<tr>
<td>- psychotic disorders</td>
<td>0.39 [0.24;0.62]</td>
<td>0.83 [0.38;1.79]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- mood disorders</td>
<td>1.08 [0.67;1.75]</td>
<td>0.97 [0.50;1.87]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- behavioral disorders</td>
<td>0.17 [0.09;0.29]</td>
<td>0.54 [0.25;1.14]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- other disorders or missing</td>
<td>0.37 [0.22;0.63]</td>
<td>0.77 [0.36;1.62]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### History of trauma in childhood

**Foster care in childhood**
- no 1 \( p = 0.01^* \) 1 \( p = 0.23 \)
- yes 0.63 [0.46;0.88] 0.76 [0.48;1.20]

**Abuse in childhood and adolescence**
- no 1 \( p < 0.0001^* \) 1 \( p = 0.10 \)
- abuse other than sexual 0.38 [0.26;0.55] 0.79 [0.47;1.32]
- sexual abuse 0.95 [0.62;1.47] 1.60 [0.89;2.87]

### Pregnancy and birth

**Parity**
- primiparous 1 \( p = 0.19 \) 1 \( p = 0.29 \)
- secundiparous 1.26 [0.87;1.83] 0.97 [0.60;1.57]
- over secundiparous 0.74 [0.49;1.11] 0.65 [0.37;1.12]

**Obstetric (pregnancy) complication**
- no known complication 1 \( p = 0.84 \) 1 \( p = 0.84 \)
- complications 1.08 [0.77;1.50] 0.96 [0.62;1.47]

**Child transferred to neonatal intensive care unit**
- no 1 \( p = 0.005^* \) 1 \( p = 0.28 \)
- yes 0.61 [0.44;0.86] 0.78 [0.49;1.23]

### Characteristics at admission

**Reason for index admission**
- first acute episode 1 \( p < 0.0001^* \) 1 \( p = 0.01^* \)
- evaluation of maternal competence 0.17 [0.11;0.28] 0.72 [0.38;1.38]
- acute episode of a chronic disorders 0.41 [0.27;0.62] 0.97 [0.51;1.83]
- relapse of an acute episode 1.21 [0.72;2.04] 2.24 [1.11;4.55]
- other, unknown 0.46 [0.18;1.21] 1.84 [0.50;6.73]

**Legal status at admission**
- informal 1 \( p = 0.85 \) 1 \( p = 0.64 \)
- involuntary admission 0.98 [0.58;1.69] 0.84 [0.41;1.72]

### Partner characteristics**

**Mental and behavioral disorders**
- no psychiatric disorder 1 \( p < 0.0001^* \) 1 \( p = 0.13 \)
- bipolar or depressive disorders 0.21 [0.10;0.46] 0.33 [0.14;0.79]
- schizophrenia or other psychotic disorder 0.43 [0.22;0.85] 0.70 [0.27;1.85]
- behavioral disorders 0.48 [0.26;0.86] 1.26 [0.59;2.69]
- other disorders 0.44 [0.26;0.76] 1.40 [0.66;2.98]
- unknown 0.44 [0.31;0.61] 1.00 [0.59;1.71]

**Occupational status**
- Occupational activity or training 1 \( p < 0.0001^* \) 1 \( p = 0.30 \)
- receiving unemployment or disability benefits or paid sick leave from work 0.56 [0.36;0.86] 1.09 [0.61;1.96]
- other (at home, state allowance...) 0.35 [0.22;0.56] 0.67 [0.36;1.26]
- unknown 0.26 [0.16;0.41] 0.60 [0.30;1.18]

### Treatments for mental illness during pregnancy

**Neuroleptics**
- no 1 \( p = 0.04^* \) 1 \( p = 0.71 \)
- yes 0.72 [0.52;0.99] 0.91 [0.55;1.50]

**Anxiolytic, antidepressor or thymoregulator**
- no 1 \( p = 0.04^* \) 1 \( p = 0.98 \)
- yes 0.72 [0.53;0.99] 0.99 [0.63;1.56]
Drug taking behavior during pregnancy

**Tobacco**

- no  \[1\]  \(p < 0.0001^*\)  \[1\]  \(p = 0.68\)
- yes  \[0.48 [0.35;0.64]\]  \(0.91 [0.59;1.41]\)

**Alcohol**

- no  \[1\]  \(p = 0.02^*\)  \[1\]  \(p = 0.22\)
- yes  \[0.53 [0.31;0.91]\]  \(1.64 [0.74;3.63]\)

**Drug use**

- no  \[1\]  \(p < 0.0001^*\)  \[1\]  \(p = 0.33\)
- yes  \[0.33 [0.20;0.55]\]  \(0.70 [0.34;1.44]\)

**Unit characteristics**

**Unit director's professional domain**

- child psychiatrist  \[1\]  \(p = 0.01^*\)  \[1\]  \(p = 0.59\)
- adult psychiatrist  \[1.45 [1.09;1.94]\]  \[1.12 [0.73;1.75]\]

*adjusted for age of baby and size of MBU
**partner and if no partner baby's father