|  |  |  |  |
| --- | --- | --- | --- |
|  | French sample (n=300) | Norwegian sample (n=42) | P value \* |
|  | N (%) or mean±SD | N (%) or mean±SD |  |
| Age at inclusion | 42.59±12.88 | 32.62±11.78 | ˂0.001 |
| Gender (Male / Female) | 116/184 | 20/22 | 0.27 |
| Age of onset | 24.60±9.98 | 22.32±10.02 | 0.07 |
| Bipolar subtypes |  |  |  |
|  Bipolar I | 227 (75.7) | 37 (88.1) | 0.08 |
|  Bipolar II | 61 (20.3) | 3 (7.1) |  |
|  Bipolar NOS | 12 (4.0) | 2 (4.8) |  |
| Duration of illness | 18.29±12.05 | 10.66±9.05 | ˂0.001 |
| Suicide attempt (at least one) | 123 (41.7) | 8 (19.5) | 0.006 |
| Mixed episode (at least one) | 77 (28.6) | 8 (20.0) | 0.25 |
| Psychotic episodes (at least one) | 161 (55.1) | 27 (67.5) | 0.14 |
| Rapid cycling | 44 (15.5) | NA |  |
| Anxiety Disorders | 125 (36.5) | NA |  |
| ALS-SF scores |  |  |  |
|  Total mean±SD (range: min-max)  | 1.15±0.71 (0-3) | 1.15±0.71 (0-3) | ˂0.001 |
|  Anxiety/Depression mean±SD (range: min-max)  | 1.30±0.85 (0-3) | 0.60±0.79 (0-3) | ˂0.001 |
|  Depression/Elation mean±SD (range: min-max)  | 1.39±0.72 (0-3) | 0.71±0.69 (0-3) | ˂0.001 |
|  Anger mean±SD (range: min-max)  | 0.90±0.72 (0-3) | 0.35±0.59 (0-3) | ˂0.001 |
| CTQ scores |  |  |  |
|  Total, mean±SD (range: min-max) | 42.41±13.41 (25-96) | 42.48±13.41 (25-96) | 0.98 |
|  Emotional neglect, mean±SD (range: min-max) | 12.74±4.51 (5-25) | 12.19±5.33 (5-25) | 0.33 |
|  Emotional abuse, mean±SD (range: min-max) | 10.06±5.07 (5-25) | 10.74±4.79 (5-25) | 0.21 |
|  Physical neglect, mean±SD (range: min-max) | 6.78±2.17 (5-17) | 7.40±2.26 (5-13) | 0.07 |
|  Physical abuse, mean±SD (range: min-max)  | 6.31±2.54 (5-17) | 6.10±2.08 (5-17) | 0.92 |
|  Sexual abuse, mean±SD (range: min-max)  | 6.57±3.72 (5-25) | 6.05±2.34 (5-25) | 0.49 |

**Supplementary Table S1.** Patients’ demographic and clinical characteristics divided into French and Norwegian group

\* p values are given for Chi2 tests for categorical variables and by non parametric tests for continuous variables

NA : not available

**Supplementary Table S2.** Correlation between Affective Lability Scale (ALS-SF) and CTQ scores

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | N |  **(ALS-SF) total score** | **ALS-SF Anx/dep**    | **ALS-SF Dep/Ela**   | **ALS-SF Anger**   |
|  **Total trauma**  | 342 | r=0.27, **p=4.5x10-7** | r=0.27, **p=5.69x10-7** | r=0.21  **p˂0.001** | r=0.27, **p=2.68x10-7** |
|  **Emotional neglect** | 342 | r=0.20, **p˂0.001** | r=0.23, **p˂0.001** | r=0.15, **p=0.006** | r=0.20,  **p˂0.001** |
|  **Emotional abuse** | 342 | r=0.23, **p˂0.001** | r=0.23, **p˂0.001** | r=0.17, **p=0.001** | r=0.24, **p=4.8x10-6** |
|  **Physical neglect** | 342 | r=0.12, p=0.03 | r=0.14, p=0.01 | r=0.07, p=0.22 | r=0.14, p=0.008 |
|  **Physical abuse** | 342 | r=0.05, p=0.34 | r=0.05, p=0.37 | r=0.05, p=0.41 | r=0.07, p=0.19 |
|  **Sexual abuse** | 342 | r=0.23, **p˂0.001** | r=0.20, **p˂0.001** | r=0.22, **p˂0.001** | r=0.20, **p˂0.001** |

*Spearman’s correlation (rho); childhood trauma was based on the Childhood Trauma Questionnaire (CTQ) with data divided into sub groups of scores ranging from 5-25; Affective Lability Scale (ALS) total score was based on 18 sub-items from the Affective Lability Scale added together ; p values: Bold = p≤ 0.05; \* = significant after correction for multiple testing****.*** *“ALS-SF Anx/dep” = ALS-SF subdomain Anxiety/depression, and “ALS-SF Dep/Ela” = ALS-SF subdomain Depression/Elation.*

**Supplementary Table S3**. Affective Lability Scale (ALS-SF) scores and clinical features of bipolar disorder

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **ALS-SF Total score** (n=342)  Statistics  | **ALS-SF Anx/dep** (n=342)  Statistics  | **ALS-SF Dep/Ela** (n=342)  Statistics  | **ALS-SF Anger** (n=342)  Statistics  |
| Lifetime Suicide Attempt (yes/no)1 | **z=-3.13, p=0.002** | **z=-2.90, p=0.004** | **z=-2.50, p=0.01** | **z=-3.50, p˂0.001** |
| Mixed episodes (yes/no)1 | **z=-3.19, p˂0.001** | **z=-3.09, p=0.002** | **z=-3.75, p˂0.001** | **z=-3.90, p˂0.001** |
| Comorbid anxiety disorder (yes/no)1 | **z=-3.76, p˂0.001** | **z=-4.33, p˂0.001** | **z=-3.11, p=0.002** | **z=-2.99, p=0.003** |
| Rapid Cycling (yes/no)1 | z=-1.66, p=0.096 | z=-1.31, p=0.19 | z=-1.50, p=0.13 | z=-1.95, p=0.05 |
| Age of onset2 | r=-0.12, p=0.031 | r=0.12, p=0.036 | r=0.11, p=0.05 | r=-0.11, p=0.046 |

*1=Mann-Whitney test; 2 =Spearman’s Correlation; bold = significant after correcting for multiple testing; “ALS-SF Anx/dep” = ALS-SF subdomain Anxiety/depression, and “ALS-SF Dep/Ela” = ALS-SF subdomain Depression/Elation.*

**Supplementary Table S4**. ***Effect and standard error for direct and indirect effects for each mediation model.***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|   |   | Effect | SE | Lower CI | Upper CI |   |
| MODEL A | Direct | 0.0141 | 0.0095 | -0.0045 | 0.0328 | NS |
| Indirect | 0.0043 | 0.0025 | 0.0006 | 0.0105 |   |
| MODEL A bis | Direct | 0.0457 | 0.0260 | -0.0053 | 0.0967 | NS |
| Indirect | 0.0113 | 0.0068 | 0.0016 | 0.0289 |   |
| MODEL B | Direct | 0.0050 | 0.0105 | -0.0155 | 0.0255 | NS |
| Indirect | 0.0081 | 0.0035 | 0.0027 | 0.0164 |   |
| MODEL B bis | Direct | 0.011 | 0.0287 | -0.0453 | 0.0672 | NS |
| Indirect | 0.0175 | 0.0087 | 0.0050 | 0.0400 |   |
| MODEL C | Direct | 0.0161 | 0.0109 | -0.0054 | 0.0375 | NS |
| Indirect | 0.0077 | 0.0036 | 0.0024 | 0.0166 |   |
| MODEL C Bis | Direct | 0.0312 | 0.0302 | -0.0279 | 0.0903 | NS |
| Indirect | 0.0284 | 0.0118 | 0.0102 | 0.0565 |   |
|  |  |  |  |  |  |  |
| SE = Standard Error |  |  |  |  |  |
| CI=Confidence Interval |  |  |  |  |  |
| NS=not significant |  |  |  |  |  |
| Note : indirect effects are significant if the confidence intervals does not contain a zero value |