Psychiatric Symptoms and Dissociation in Conversion, Somatization and Dissociative Disorders

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</table>
Psychiatric Symptoms and Dissociation in Conversion, Somatization and Dissociative Disorders

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Abstract

Objective: Conversion, dissociation and somatization are historically related in the long established concept of hysteria. Somewhere along the way they were separated due to the Cartesian dualistic view. Our aim was to compare these pathologies and investigate whether symptoms of these pathologies overlap in their clinical appearance in a Portuguese sample.

Method: Twenty-six patients with conversion disorder, 38 with dissociative disorders, 40 with somatization disorder, and a comparison group of 46 patients having other psychiatric disorders answered questions about dissociation (Dissociative Experiences Scale), somatoform dissociation (Somatoform Dissociation Questionnaire), and psychopathological symptoms (Brief Symptom Inventory).

Results: Dissociative and somatoform symptoms were significantly more frequent in dissociative and conversion disorder than in somatization disorder and controls. There were no significant differences between dissociative and conversion patients.

Conclusions: Conversion disorder is closely related to dissociative disorders. These results support the ICD-10 categorisation of conversion disorder among dissociative disorders and the hypothesis of analogous psychopathological processes in conversion and dissociative disorders versus somatization disorder.

Keywords Conversion disorder; Dissociative disorder; Somatization disorder, Dissociation; Hysteria
Introduction

Hysteria has been an important and well-accepted disease for 3900 years, with an extraordinary and irregular conceptual evolution that ended in its disappearance from the majority of scientific writings [1]. In 1980, hysteria was replaced by distinct illnesses in the DSM and ICD, namely somatization, dissociative, and conversion. The DSM-IV-TR [2] classifies conversion disorder within somatoform disorders, along with somatization disorder. In the ICD-10 conversion disorder is categorised as a dissociative disorder (keeping its “hysteria” designation), and somatization disorder goes with somatoform disorders [3]. However, many investigators noted the great overlap between dissociative and somatoform disorders, as defined in DSM and ICD [4-8]. Several investigations showed that dissociative disorders may present with somatic symptoms [7, 9-17] and conversion symptoms [7, 10, 11, 18]. Conversely, many patients with somatization disorder also have dissociative symptoms [17, 19], especially if they have been abused [17, 20]. Additionally, many patients with conversion disorder report dissociative symptoms [8, 21-23], namely patients with pseudoneurological conversion conditions [24-29]. There is a great overlap between these disorders, and many studies have defended the inclusion of the conversion disorder in the group of dissociative disorders [6, 30, 31], like Pierre Janet’s perspective [32]; while others have supported the differentiation between conversion and somatization [33].

Dissociation, somatic and psychological, seems to be the underlying mechanism of these three pathologies. The mechanism of *psychoform* dissociation involves the loss of the integration of consciousness, memory, identity, and perception of the environment [2] (American Psychiatric Association, 1994). *Somatoform* dissociation is viewed as the lack
of integration of somatic experiences, functions and responses [34-38]. The most
extensively employed self-report measures of dissociation, the Dissociative Experiences
Scale (DES) [39] and Somatoform Dissociation Questionnaire (SDQ-20) [36], were
developed to measure psychoform and somatoform dissociation respectively.
As far as we know, no other study has investigated the three hysterical nosological
presentations, nor compared them with other psychopathological disorders in terms of
somatoform and psychoform dissociation. This study was undertaken to assess the
common and different features of somatization, dissociative and conversion disorders,
studying the phenomena of psychoform dissociation, somatoform dissociation, and
general psychopathology, and to compare them with other psychiatric conditions.

Material and Methods
We present the cross-sectional and self-report data collected.

Subjects
We selected 151 patients from amongst 1162 consecutive cases registered between 2005
and 2006 from three mental health centres; they met DSM-IV criteria for conversion
disorder (n=26), dissociative disorders (n=39), somatization disorder (n=40) and other
psychiatric disorders (n=46). Twenty-seven were inpatients and 123 were outpatients. We
ruled out patients with psychotic disorders, substance abuse disorders, bipolar disorder,
personality disorders, and those under 18 years old. Expert clinicians with several years
of training (mean practice of 19.7 years) performed a longitudinal evaluation using all
data available (LEAD methodology) [40]. Because of logistical factors, only the
diagnoses of 62 of these patients were confirmed with a Portuguese version of the
Dissociative Disorders Interview Schedule (DDIS)[41]. Due to discharge, two patients did not fill out the SDQ-20. None of the other psychiatric patients met criteria for any of the above disorders. All patients gave written informed consent, and anonymity was preserved, according to the Code of Medical Ethics of the World Medical Association Declaration of Helsinki.

The demographic characteristics of the samples can be seen in Table 1. There were no significant differences in ages among the four groups (F=1.81, df=3, p>0.05), nor between genders ($\chi^2=1.14, \text{df}=3, p>0.05$), marital status ($\chi^2=3.10, \text{df}=3, p>0.05$), school years (F=1.82, df=3, p>0.05), or inpatients/outpatients ($\chi^2=7.07, \text{df}=3, p>0.05$). Table 2 shows the sub sample diagnosis frequencies.

**Instruments**

*The Dissociative Experiences scale: Portuguese version.* The DES is a self-administered 28-item questionnaire to measure the frequency of dissociative experiences [39], with subjects answering by circling the percentage of time they experience dissociation (from 0 to 100 in increments of 10%). The Portuguese version has good reliability (Cronbach’s $\alpha=0.94$) [42].

*The Somatoform Dissociation Questionnaire (SDQ-20)* is a 20-item self-administered tool to evaluate the intensity of somatoform dissociation [36]. Reliability of the Portuguese form was 0.88 (Cronbach’s $\alpha$) [43].

*The Brief Symptom Inventory (BSI)* [44] is a 53-item self-report clinical rating scale that measures psychological distress (Global Severity Index) and nine dimensions: somatization, interpersonal sensitivity, anxiety, phobic anxiety, obsessive-compulsive symptoms, depression, hostility, paranoid ideation, and psychoticism. We used the
Portuguese threshold [45] of 1.7 or greater for each subscale as an indication of symptom severity. These symptom subscales do not correspond to psychiatric diagnosis. Cronbach’s alpha for the subscales ranged from 0.62 (phobic anxiety) to 0.80 (somatization).

The Dissociative Disorders Interview Schedule (DDIS) [41] is a 1316-item semi-structured interview that identifies all dissociative disorders, somatization disorder, and conversion disorder according to DSM-IV diagnoses, and a Portuguese adaptation (sensitivity rate 84%, specificity 100%, and overall kappa 0.83) [46].

Statistical Analysis

Data were analysed with Statistical Package for the Social Sciences (SPSS 11.0.3, for Mac OS X). Subjects with the four diagnoses were compared with each other according to the frequency (mean DES scores) and severity (above cut-off score 30) of dissociative experiences; mean SDQ-20 scores, and severity; distress and psychopathological symptoms from the BSI. None of these measures were normally distributed, therefore Kruskal-Wallis tests were used, followed by post-hoc Mann-Whitney tests on each pair of groups and adjusted $p$ value with Bonferroni method ($p$ value divided by the six paired comparisons made; in this way a significant level was set at $p<0.008$).

Results

Results are described through the DES, SDQ and BSI measures used in this study.

Psychoform dissociation – DES
The DES ratings of all 151 patients ranged from 1.92 to 72.69, with a mean±SD of 26.82; there were no significant differences (U=23.42, p=0.935) between the mean DES scores of women (26.32±14.03) and men (27.97±17.55) or between single (26.23±15.34) and married patients (27.69±14.90) (U=2555.50, p=0.579). Inpatients (mean±SD= 30.06±15.40) and outpatients (mean±SD= 26.10±15.06) did not differ significantly (U=1425.00, p=0.249). There was no significant correlation between age and the scale scores (r=0.138, p=0.094) or between number of school years and scale scores (r=0.102, p=0.214). Thirty-eight percent of the patients got a score of 30 or above. There were no significant differences between higher and lower scores in terms of demographic characteristics.

Mean±SD DES scores were higher for the conversion patients, followed by dissociative disorders, somatization, and the comparison group. These scores differed significantly overall (H=68.86, df=3, p<0.001, Kruskal-Wallis one-way analysis of variance by ranks). Pairwise post-hoc U tests showed that dissociative and conversion patients did not differ, nor did somatizing patients from the comparison group. The other group comparisons, however, were significantly different. These results are shown in Table 3.

The proportions of patients from the diagnostic categories with above cut-off scores on the DES are presented in Table 4. Conversion and dissociative patients had significantly (H=58.73, df=3, p<0.001) more severe dissociative experiences than patients with somatization or other psychiatric disorders.

**Somatoform dissociation-SDQ**

The SDQ ranged from 20.00 to 76.00 and had a mean±SD of 32.00±11.29 for all patients. Women scored 34.32±11.73 and men 33.56±10.30 and their differences were not
significant (U= 2145.00, p=0.394); single patients scored 33.01±9.58 and married 35.67±13.34, and their difference was also non-significant (U=2453.00, p=0.465).

Inpatients had significantly higher (U=1215.00, p=0.038) somatoform dissociation scores (mean±SD=39.15±14.21) than outpatients (mean±SD= 32.96±10.26). There was no significant correlation between scale scores and age (□=0.121, p=0.142). However, less educated subjects had higher scores (□= -0.231, p=0.005). A score of 35 or above was attained by 38% of the patients.

Conversion patients also had higher mean±SD SDQ scores, followed by dissociatives, then somatizing, and then other psychiatric patients. These scores differed significantly (H=20.46, df=3, p<0.001). The post-hoc Mann-Whitney tests revealed significant group differences between dissociative and somatizing, dissociative and controls, and between conversion and controls. Once again, dissociative and conversion patients did not differ from each other, nor did somatizing from controls. Conversion patients did not differ from somatizing participants (see Table 3).

More conversion patients scored higher than 35, followed by dissociative, then somatization and other psychiatric patients; these differences were significant (H= 20.14, df=3, p<0.001) (see Table 4).

**Psychopathology**

The BSI data is presented in Table 3. The mean GSI scores were below the 1.7 threshold for the four groups. Conversion patients scored higher than 1.7 in anxiety and obsessive-compulsive symptoms. Dissociative patients had higher levels in obsessive, depression and paranoid symptoms. Somatizing patients scored higher in somatization and obsessive
symptoms. As a group, patients with other psychiatric disorders did not score high in any subscales. There were no significant differences between any paired groups in mean±SD GSI scores. We found significant differences only in somatization symptoms, with conversion patients and somatization patients revealing higher levels than patients with other psychiatric diagnoses.

Discussion

The aim of this study has been to analyze the relationship between conversion disorder, dissociative disorders and somatization disorder across the spectrums of psychoform dissociation, somatoform dissociation, and general psychopathology. As far as we know, there is only one investigation that has compared conversion and somatization disorder with regard to psychoform dissociative symptoms, and reported no significant differences [21]; our results do not support this investigation: the patients with conversion had higher scores.

We found no studies that compared dissociative and somatization disorder, considering psychoform dissociation. Our findings reveal that dissociative patients scored higher than the somatization subjects.

We also found that patients with conversion and dissociative disorder patients differed significantly from somatization ones regarding somatoform dissociative symptoms; no other study measured this aspect.

Our main finding was a closer association between conversion and dissociative disorders, than between conversion and somatization disorder. This result is supported by: (1) greater psychoform and somatoform dissociation in conversion and dissociation; (2) a
lack of differences between conversion and dissociative disorders using measures of psychoform dissociation, somatoform dissociation and general psychopathology; (3) differences between conversion and somatization disorder in psychoform but not somatoform dissociation. Additionally, there is a common element to the three groups of pathology, and this is the obsessive symptoms.

These are timely findings, considering the discussion regarding somatoform disorder classification. There are both practical [47, 48] and theoretical issues [49]. Some argue that conversion is misplaced in DSM-IV [6, 7, 8, 37] and should be reunited with dissociative disorders [6, 7, 22, 50-52] or that it definitely has a dissociative component [21, 23, 53]. We also propose that conversion is re-conceptualised as a particular type of dissociative disorder, with a somatization aspect. We suggest that psychoform and somatoform dissociation are specific mechanisms of dissociative and conversion disorders.

There were some limitations to our study. Given the small sample size, it is possible that some statistically significant differences occurred by chance, thus our conclusions are limited to general trends, and larger replication studies are required.

Also, our demographics are disproportionate in relation to the population; despite the fact that we had no significant differences in the proportions of demographic characteristics across the four groups, this selection bias may limit the generalisation of the study.

However, we know that women are more likely to search for medical or psychological help [54] (WHO, 2006), and are usually over-represented in these studies. Moreover, men and women had no significant differences in mean DES or SDQ scores or in the proportion of higher scores. We are aware that younger subjects tend to report higher
levels of psychological dissociation [34, 55-59] and somatoform dissociation [16, 60].
The same tendency occurs in less educated subjects for somatoform dissociation [16, 60].
These possible selection biases were controlled: there was no correlation between age or
number of school years and scores of the DES or SDQ, except for the proportion of
patients with an elevated SDQ score, who were less educated. Thus, it is important to
control the level of education in further studies. Some studies show a relationship
between being single and psychological dissociation [57-59], and somatoform
dissociation [57]. Again, there were no significant differences in mean DES or SDQ
scores or in the proportion of higher scores between single and married subjects.
A potential bias may have occurred from the self-report measures. It is possible that
symptom exaggeration and contamination with social desirability took place, since we
only used the structured interview with 62 subjects (41%). In addition, we recognize that
individuals with psychiatric conditions may have a co-morbid dissociative disorder which
goes undiagnosed unless a structured interview takes place [61]. Moreover, we used wide
psychiatric categories instead of specific diagnosis, which could introduce unmeasured
confusion. In fact, it has been demonstrated that conversion disorder could be a
heterogeneous diagnostic category [62]. Additionally, the evaluators were not blind to the
diagnosis. Therefore, a growing area for replication would be to use structured interviews
combined with self-report measures, do more research on specific diseases, and involve
blinded interviewers, unaware of the investigation hypothesis.
Despite these limitations, there are also strengths in this study. The participants were
inpatients and outpatients: knowing that inpatients are more likely to have psychiatric co-
morbidity, outpatients could have brought fewer biases.
We used, as well, a consecutive sampling procedure, which made the sample closer to a community sample.

Finally, this study was the first to explore the three types of hysteria through psychological and somatoform dissociation.

**Acknowledgements**: None
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comparison of clinical characteristics. *Psychosomatics* 2004; 45: 492-499
Table 1. Demographic characteristics of psychopathological groups.

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<thead>
<tr>
<th>Groups</th>
<th>Total</th>
<th>Age (years)</th>
<th>Gender (M/F)</th>
<th>Marital Status (married/single)</th>
<th>School Years</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n</td>
<td>M</td>
<td>SD</td>
<td>n %</td>
<td>n %</td>
</tr>
<tr>
<td>Dissociative Disorders</td>
<td>39</td>
<td>34.0</td>
<td>11.7</td>
<td>11/28 28.2/71.8</td>
<td>20/19 51.3/48.7</td>
</tr>
<tr>
<td>Conversion Disorder</td>
<td>26</td>
<td>27.4</td>
<td>8.8</td>
<td>6/20 23.1/76.9</td>
<td>8/18 30.8/69.2</td>
</tr>
<tr>
<td>Somatization Disorder</td>
<td>40</td>
<td>32.6</td>
<td>12.8</td>
<td>14/26 35.0/65.0</td>
<td>15/25 37.5/62.5</td>
</tr>
<tr>
<td>Other Psychiatric Disorders</td>
<td>46</td>
<td>31.5</td>
<td>11.3</td>
<td>14/32 30.4/69.6</td>
<td>18/28 39.1/60.9</td>
</tr>
<tr>
<td></td>
<td>151</td>
<td>31.7</td>
<td>11.5</td>
<td>45/106 29.8/70.2</td>
<td>61/90 40.4/59.6</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>31.1</td>
<td>11.5</td>
<td>151/391 29.8/70.2</td>
<td>61/90 40.4/59.6</td>
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Table 2. Frequencies of group pathologies and their main disorder frequencies (N=151).

<table>
<thead>
<tr>
<th>Group pathologies</th>
<th>Disorders</th>
<th>n</th>
<th>%</th>
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</thead>
<tbody>
<tr>
<td>Conversion disorders</td>
<td>Pseudo seizure</td>
<td>1</td>
<td>0.7</td>
</tr>
<tr>
<td></td>
<td>Combination</td>
<td>3</td>
<td>2.0</td>
</tr>
<tr>
<td></td>
<td>Motor</td>
<td>10</td>
<td>6.6</td>
</tr>
<tr>
<td></td>
<td>Sensorial</td>
<td>12</td>
<td>7.9</td>
</tr>
<tr>
<td>Dissociative Disorders</td>
<td>DDOS</td>
<td>10</td>
<td>6.6</td>
</tr>
<tr>
<td></td>
<td>Fugue</td>
<td>7</td>
<td>5.3</td>
</tr>
<tr>
<td></td>
<td>Amnesia</td>
<td>11</td>
<td>7.3</td>
</tr>
<tr>
<td></td>
<td>Depersonalization</td>
<td>11</td>
<td>7.3</td>
</tr>
<tr>
<td>Somatization disorder</td>
<td></td>
<td>40</td>
<td>26.5</td>
</tr>
<tr>
<td>Other psychiatric disorders</td>
<td>Panic disorder</td>
<td>8</td>
<td>5.3</td>
</tr>
<tr>
<td></td>
<td>Specific Phobias</td>
<td>8</td>
<td>5.3</td>
</tr>
<tr>
<td></td>
<td>Social Phobia</td>
<td>9</td>
<td>6.0</td>
</tr>
<tr>
<td></td>
<td>Depression</td>
<td>10</td>
<td>6.6</td>
</tr>
<tr>
<td></td>
<td>OCD</td>
<td>11</td>
<td>7.3</td>
</tr>
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</table>
Table 3. Psychoform dissociation (DES), somatoform dissociation (SDQ), global severity index (GSI) and psychopathological symptoms in patients with conversion disorder, dissociative disorders, somatization disorder, and the control group (N=151).

<table>
<thead>
<tr>
<th>Measures</th>
<th>Conversion disorder (CV) (n=26)</th>
<th>Dissociative Disorders (DD) (n=39)</th>
<th>Somatization Disorder (So) (n=40)</th>
<th>Other psychiatric disorders (OP) (n=46)</th>
<th>Kruskal-Wallis (df=3)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M (SD)</td>
<td>M (SD)</td>
<td>M (SD)</td>
<td>M (SD)</td>
<td>H (p)</td>
</tr>
<tr>
<td>DES</td>
<td>43.49 (12.33)</td>
<td>36.02 (10.10)</td>
<td>19.39 (11.89)</td>
<td>18.02 (8.37)</td>
<td>68.86 (0.000)</td>
</tr>
<tr>
<td>SDQ</td>
<td>39.76 (14.15)</td>
<td>39.28 (11.88)</td>
<td>31.81 (9.16)</td>
<td>29.61 (7.06)</td>
<td>20.46 (0.000)</td>
</tr>
<tr>
<td>BSI</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GSI</td>
<td>1.48 (0.43)</td>
<td>1.55 (0.57)</td>
<td>1.54 (0.54)</td>
<td>1.23 (0.43)</td>
<td>10.40 (0.015)</td>
</tr>
<tr>
<td>Somatization</td>
<td>2.00 (0.92)</td>
<td>1.05 (0.78)</td>
<td>1.74 (0.75)</td>
<td>0.89 (0.59)</td>
<td>27.30 (0.000)</td>
</tr>
<tr>
<td>Interpersonal sensitivity</td>
<td>1.46 (0.69)</td>
<td>1.42 (0.82)</td>
<td>1.63 (0.72)</td>
<td>1.43 (0.66)</td>
<td>1.39 (0.709)</td>
</tr>
<tr>
<td>Anxiety</td>
<td>1.71 (0.82)</td>
<td>1.39 (0.65)</td>
<td>1.54 (0.80)</td>
<td>1.30 (0.64)</td>
<td>3.40 (0.335)</td>
</tr>
<tr>
<td>Phobic Anxiety</td>
<td>0.97 (0.97)</td>
<td>0.52 (0.65)</td>
<td>0.85 (0.83)</td>
<td>0.92 (0.73)</td>
<td>4.30 (0.232)</td>
</tr>
<tr>
<td>Psychoticism</td>
<td>1.43 (0.93)</td>
<td>1.53 (0.93)</td>
<td>1.17 (0.65)</td>
<td>1.10 (0.63)</td>
<td>4.92 (0.178)</td>
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<tr>
<td>Obsessive-compulsion</td>
<td>1.71 (0.67)</td>
<td>1.70 (0.80)</td>
<td>1.74 (0.66)</td>
<td>1.48 (0.59)</td>
<td>2.53 (0.471)</td>
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<tr>
<td>Depression</td>
<td>1.50 (0.85)</td>
<td>1.98 (1.20)</td>
<td>1.56 (0.86)</td>
<td>1.50 (0.73)</td>
<td>1.60 (0.659)</td>
</tr>
<tr>
<td>Hostility</td>
<td>1.06 (0.68)</td>
<td>0.97 (0.78)</td>
<td>1.32 (0.87)</td>
<td>1.09 (0.67)</td>
<td>1.52 (0.679)</td>
</tr>
<tr>
<td>Paranoid ideation</td>
<td>1.69 (0.69)</td>
<td>1.78 (0.77)</td>
<td>1.59 (0.68)</td>
<td>1.37 (0.58)</td>
<td>3.95 (0.267)</td>
</tr>
</tbody>
</table>

Pairwise Post-hoc Mann-Whitney

DES: CV>So ***; CV>OP**; DD>So***; DD>OP****

Other comparisons non significant.

SDQ: CV>OP**; DD>So*; DD>OP*

Other comparisons non significant.

GSI: comparisons non significant.

Somatization: Co>OP***, So>OP***

* p<0.0083, ** p<0.0017, *** p <0.00017 (Bonferroni-corrected)
Table 4. Percentages of cases of diagnostic categories scoring above the cut-offs on the Dissociative Experiences Scale (DES) and the Somatoform Dissociation Questionnaire (SDQ-20) (N= 151).

<table>
<thead>
<tr>
<th>Pathologies</th>
<th>DES≥30 n</th>
<th>%</th>
<th>SDQ≥35 n</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conversion disorders (CV)</td>
<td>29</td>
<td>78.4</td>
<td>22</td>
<td>59.5</td>
</tr>
<tr>
<td>Dissociative disorders (DD)</td>
<td>18</td>
<td>69.2</td>
<td>15</td>
<td>60.0</td>
</tr>
<tr>
<td>Somatization disorder (So)</td>
<td>6</td>
<td>15.0</td>
<td>10</td>
<td>25.0</td>
</tr>
<tr>
<td>Other psychiatric disorders (OP)</td>
<td>5</td>
<td>10.9</td>
<td>10</td>
<td>21.7</td>
</tr>
</tbody>
</table>

Kruskal-Wallis (df=3) 58.73*** 20.14****

Pairwise Post-hoc Mann-Whitney

DES: CV>So ***; CV>OP***; DD>So***; DD>OP***

Other comparisons non significant.

SDQ: CV>So*; CV>OP**; DD>So*; DD>OP***

Other comparisons non significant.

* p<0.0083, ** p<0.0017, *** p <0.00017 (Bonferroni-corrected)