

## Studi sperimentali

# A new tool to assess duration of untreated illness: Psychopathological Onset and Latency to Treatment Questionnaire (POLT-Q)

*Un nuovo strumento per valutare la durata di malattia non trattata:  
il questionario sull'esordio psicopatologico e la latenza al trattamento  
(POLT-Q)*

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**SUMMARY. Introduction.** Duration of untreated illness (DUI) has been increasingly investigated as a predictor of clinical outcome and course in different psychiatric disorders. To date, however, there are no tools for measuring this variable. Our group developed the Psychopathological Onset and Latency to Treatment Questionnaire (POLT-Q), focused on the onset of psychiatric disorders. Aim of this study was to assess the reproducibility and manageability of POLT-Q. **Methods.** Fifty consecutive in- and out-patients aged 16-65 with different DSM-5 psychiatric disorders were recruited. Two raters were present during the interview: one of them administered the POLT-Q to the patient and both independently completed the questionnaire. Collected values were compared using Cohen's Kappa test and McNemar test. **Results.** 62.5% of the replies showed a 100% consistency between the two raters. In the 6.25% the agreement was <95%. For all the replies, the K coefficient was >0.8, a high degree of agreement. **Discussion and conclusion.** The POLT-Q assesses variables related to the psychopathological onset and first pharmacological treatment and, according to present findings, it represents a convenient, reliable and standardised measure for DUI. Further studies on larger sample are needed to confirm our preliminary results.

**KEY WORDS:** duration of untreated illness, age at onset, psychopathological onset, first pharmacological treatment, clinical questionnaire.

**RIASSUNTO. Introduzione.** La durata di malattia non trattata (duration of untreated illness - DUI) è stata progressivamente studiata come predittore dell'andamento clinico e dell'outcome di malattia in diversi disturbi psichiatrici. A oggi, non esistono strumenti formali per misurare questa variabile. Il nostro gruppo di studio ha sviluppato il Questionario sull'esordio psicopatologico e la latenza al trattamento (Psychopathological Onset And Latency To Treatment Questionnaire - POLT-Q), che si focalizza sull'esordio dei disturbi psichiatrici. Lo scopo di questo lavoro consiste nella valutazione della riproducibilità e della maneggevolezza del POLT-Q. **Metodi.** Per il presente studio sono stati reclutati consecutivamente 50 pazienti, in regime di ricovero o ambulatoriale, di età compresa tra i 16 e i 65 anni e con diversi disturbi psichiatrici in accordo al DSM-5. Due valutatori erano presenti all'intervista clinica: mentre uno di questi somministrava il POLT-Q, entrambi compilavano il questionario indipendentemente. Le variabili così raccolte sono state confrontate utilizzando l'indice Kappa di Cohen e il test di McNemar. **Risultati.** Nel 62,5% delle risposte fornite i due valutatori hanno raggiunto una concordanza pari al 100%. Nel 6,25% delle risposte fornite, la concordanza è stata inferiore al 95%. Per tutte le risposte, il coefficiente K è risultato superiore a 0,8, corrispondente a un elevato livello di concordanza. **Discussione e conclusioni.** Il POLT-Q valuta le variabili relative all'esordio psicopatologico e al primo trattamento farmacologico e, secondo i risultati presentati nel corrente studio, rappresenta uno strumento conveniente, affidabile e standardizzato per misurare la DUI. Ulteriori studi su un campione più ampio potranno confermare i nostri risultati preliminari.

**PAROLE CHIAVE:** durata di malattia non trattata, età d'esordio, esordio psicopatologico, primo trattamento farmacologico, questionario clinico.

## *Psychopathological Onset and Latency to Treatment Questionnaire (POLT-Q)*

### INTRODUCTION

#### Duration of untreated illness (DUI)

Over the last two decades, the duration of untreated illness (DUI), defined as the interval between the onset of a specific psychiatric disorder and the administration of the first appropriate pharmacological treatment, according to guidelines in compliant subjects<sup>1</sup>, has been increasingly investigated as a predictor of clinical outcome and course across different conditions<sup>2</sup>. Most published studies on this topic, however, investigated the prognostic role of the DUI in schizophrenia and psychotic disorders, focusing on the duration of untreated psychosis (DUP)<sup>3-5</sup>. Although the association between the DUP and the clinical outcome of psychotic disorders has shown mixed results<sup>6,7</sup>, a longer DUP in schizophrenic patients has been associated with a worse long-term outcome, a higher risk of relapse, higher rates of suicide, more severe positive and negative symptoms, as well as reduced treatment response in the acute treatment of first episode<sup>8,9</sup>. In addition, a shorter DUP has been associated with a greater response to antipsychotic treatment, as measured by severity of global psychopathology, positive and negative symptoms, and functional outcomes<sup>10</sup>.

Likewise, DUI has been recognized as an important outcome parameter in depressive, anxiety and obsessive-compulsive and related disorders<sup>11,12</sup>.

Furthermore, in bipolar disorder (BD), a longer DUI has been associated with a worse outcome, an increased suicidality and a higher number of lifetime suicide attempts<sup>13</sup>. Similarly, the course of major depressive disorder (MDD) was found to be influenced by the DUI, in terms of response and remission, with related rates gradually decreasing when the DUI extends beyond specific temporal thresholds<sup>13-15</sup>. With respect to anxiety disorders, the DUI was found to be longer in generalized anxiety disorder compared to panic disorder<sup>16</sup>, and a longer DUI has been associated to a worse treatment response in OCD patients<sup>17-19</sup>. Similarly, DUI seems to be crucial for the treatment of personality disorders and eating disorders<sup>20,21</sup>.

#### Measuring the DUI and related variables: the state of the art

To date, there is no international agreement about the definition of DUI and no standardized, structured and reproducible tool for measuring it. As a matter of fact, if many questionnaires have been proposed to assess the DUP<sup>22</sup>, the identification of a reliable tool for quantifying the components of the psychopathological onset is still lacking.

Some clinical interviews and questionnaires have an introductory section, which can be used to collect some general data about the patient's clinical history. For instance, the second module of the Structured Clinical Interview for DSM-IV Axis I Disorders (SCID-I)<sup>23</sup>, titled 'Overview', collects some elements concerning the medical history of the patient. One box, in particular (P11), deals with the time of onset of the patient's symptoms, while other questions concern the possible presence of triggering factors at the onset (box P12) and the time passed until the initial symptoms have fully developed. Box P16 asks when patients have had

their first contact with anyone due to their psychiatric symptoms and whether a pharmacologic treatment was prescribed or not. Therefore, the DUI might be somehow deduced from these elements, but not univocally determined, in the absence of specific and definitive questions.

In light of the above, our group developed the Psychopathological Onset and Latency to Treatment Questionnaire (POLT-Q), an *ad-hoc* questionnaire focused on the onset of psychiatric disorders and administration of the first pharmacological treatment. Authors, in order to assess patients with different clinical presentation, have already extensively and successfully used this questionnaire in several previous studies, aiming for a better characterization of symptoms at onset, while exploring the different components of psychopathological onset and nature of first pharmacological treatment<sup>11,12</sup>.

The principle aim of this study was to assess the reproducibility and manageability of the POLT-Q and to explore possible advantages of its regular use in clinical practice.

### METHODS

#### Psychopathological Onset and Latency to Treatment Questionnaire (POLT-Q)

The POLT-Q's aim is to provide a standardized form to gather data about the onset of psychopathology, and nature of first psychopharmacological treatment.

The design of the POLT-Q relies on the identification of specific concepts about the psychopathological onset of a psychiatric disorder. Onset in POLT-Q is described as the period between the first reported/observed change(s) in mental state/behaviour and the identification of a psychiatric diagnosis, achieved according to main diagnostic systems (International Statistical Classification of Diseases and Related Health Problems and Diagnostic and Statistical Manual of Mental Disorders)<sup>24,25</sup>. On the other hand, age at onset consists of the age when the patient began to experience his first psychopathological symptoms.

POLT-Q is composed by open and closed questions: some closed questions allow more than one answer in order to capture the complexity of onset (i.e. coexistence of many symptoms in the onset description or different reasons for having first seen a health provider).

#### *Onset and nature of the first symptoms*

Patients are asked the age (in years) when the first symptom(s) occurred, referring to the first change(s) in their mental state/behaviour<sup>26</sup>. The nature of symptoms is grouped into different clusters (mood, anxiety, psychotic, neurovegetative, eating, substance misuse and impulse-control), each of which has its own list of the most commonly reported symptoms, in order to better characterize that specific clinical dimension. The items are provided as illustrative examples and probes for interview but are not designed as an exhaustive list of all prodromal symptoms. The raters invite the patient to report the initial symptoms of their own psychiatric condition, thus ticking the corresponding areas; the raters then check the list by naming each area and asking the patient to state whether those symptoms were present as first changes in their psychic state or not. The positive areas are marked afterwards.

*Age at first pharmacological treatment*

Patients are then asked the age (in years) in which they took their first appropriate psychopharmacological treatment. This means the treatment had to be approved for the mental disorder they were suffering from and had to be compliantly taken at standard doses and for an adequate period of time, according to currently available International treatment guidelines<sup>27</sup>.

The difference (in years) between the age of first appropriate pharmacological treatment and the starting date of the first symptoms generates the Latency to First Pharmacological Treatment (which, for the purpose of this work, coincides with the DUI).

In order to help the patient outlining this lapse of time, crucial for the identification of the DUI, a visual summary has been proposed as an integrative part of the POLT-Q (available in the Appendix section).

In addition to these elements, some additional data about the psychopathological onset are collected by the POLT-Q. Although not essential for the identification of the latency to treatment, these factors contribute to describe the beginning and the development of patient's mental disorder. Among these:

- presence of stressful event(s) at the first symptom(s), including a list of suitable categories (life events, traumas, different types of abuse, medical condition, and/or others);
- time transpired from the occurrence of the above mentioned stressful event and the experience of the first symptom(s);
- time transpired from the onset of the first symptom(s) and the request for help from a health provider (general practitioner, psychologist, neurologist, psychiatrist, and/or others), including a list of possible reason(s) for this delay;
- time transpired from the onset of the first symptom(s) and the request for help from a psychiatrist, in case the patient's first contact was not with a psychiatrist.

Ultimately, the POLT-Q includes a preliminary part, a collection of patient's demographic data, and two sections; one dealing with patient's psychopathological onset (section 1) and the other with first psychopharmacological treatment (section 2). A version of the POLT-Q is included in the Appendix. Its full version, with extended section 1) and 2), is available upon request to the corresponding author of the present article.

**Procedures**

Two raters were trained on how to use the POLT-Q by the questionnaire's developers, which consisted of the explanation of its components and rating rules. The two raters had not taken any part in the development of the questionnaire per se and did not know the clinical history of the patients enrolled in the study.

The interview took part in a quiet room. During each interview, both raters were present at the same time and one of them, chosen by the toss of a coin, administered the POLT-Q to the patient, in order to minimize potential bias. If patient's replies seemed uncertain, the selected rater repeated the question again. Both raters independently completed the interview schedule for each subject and could not compare the collected answers.

Fifty consecutive patients aged 16-65, collected either from the out- or the in-patient units of our hospital, were enrolled in this study. Due to its non-interventional but rather purely observational nature, this study had few exclusion criteria, represented by conditions which might pose a risk of unreliability in the recon-

struction of patient's clinical history, including: the presence of major cognitive impairments, a history of head trauma, the existence of a CNS disease and the presence of acute although transient psychotic features due to alcohol or substance ingestion.

It is worthy to note that the nature of the mental disorder the patient was diagnosed with was not considered in this study, in order to avoid any chance of bias and according to the Authors' aim to test the POLT-Q reliability in a wide range of psychiatric conditions.

**Statistical analysis**

The values of the replies collected by the two raters were compared by means of the Cohen's Kappa test and the McNemar test. The first calculates the inter-rater agreement for the replies registered by the two evaluators, while the latter provides a measurement of the association between the replies, in the hypothesis of an even distribution of the inconsistent replies.

The statistical analyses were performed by means of the statistical software SAS vers. 9.2 (SAS Institute, Inc. Cary, N.C. USA 2009).

**RESULTS**

Table 1 shows the main socio-demographic characteristics of the sample.

The sample of patients was characterized by the following clinical features (median [min-max]): age 45 [20-74] years, age at first symptoms 25.5 [5-64] years, age at full expression of psychopathological picture 26.75 [5-64.25] years, age at help seeking 30.5 [10-64] years, months transpired between the consultation of a non-psychiatrist care-provider and a specialist in psychiatry 12 [0-360], age at first pharmacological treatment (other than benzodiazepines) 33 [18-73] years.

As shown in Table 2, in 20 out of 32 replies (62.5%), the consistency between the replies registered by the two raters

Table 1. Socio-demographic variables of the total sample (N=50 patients).

Variables	%
Gender	
Females	58.0
Age (years)	
20-39	38.0
40-59	38.0
≥60	24.0
Education	
Low	20.0
High-professional Degree	62.0
Degree	18.0
Employment	
Student/ housewife	24.0
Fulltime job	48.0
Others	28.0
Marital status	
Married/common law	58.0
Single	22.0
Others	20.0

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was equivalent to 100%. In 2 out of 32 replies (6.25%) the agreement was below 95%, i.e. “family history of psychiatric disorder” and “nature of first symptoms: anxiety”.

In 2 cases, for the question exploring the nature of first symptoms (in the “Onset” section), the replies provided by

the patients were not differentiated enough to build a table comparing the inter-rater agreement consistency. More in detail, for one option of reply (unusual experiences, e.g.: suspiciousness, hallucinations, misperceptions, feelings/conviction of environment hostility, social withdrawal, etc.), both

Table 2. Raters' answers to POLT-Q questions

Questions	N° classes	% concordance	Cohen's K	McNemar test (p)
Family history of psychiatric disorders...	2	92	0.84	0.0455
Since simple phobias (animals, heights, blood, etc.) are very common...	2	100	1.0	.
How old were you when the first...	5	96	0.97	0.9963
Anxiety (e.g.: worries, fears, panic)	2	82	0.64	0.0196
Affective (e.g.: low mood, feelings of sadness)	2	100	1.0	.
Bodily symptoms (e.g. sleep, appetite, libido)	2	98	0.96	0.3173
Substance abuse (e.g.: alcohol, cocaine, heroin)	2	100	1.0	.
Unusual experiences (e.g.: suspiciousness, hallucinations)	2	100	-	-
Impulsivity	2	96	-	-
How many months passed from the first symptoms to the full...	2	98	0.94	0.3173
At the onset of your first symptoms, did any...	2	98	0.92	0.1573
If so, please specify Trauma	2	100	1.0	.
If so, please specify Abuse	2	100	1.0	.
If so, please specify Life events...	2	98	0.92	0.1573
If so, please specify Physical illness...	2	98	0.88	0.3173
If so, please specify Post-partum...	2	100	1.0	.
How many months after the symptoms...	3	100	1.0	.
How old were you?	4	100	1.0	.
Decide on your own	2	100	1.0	.
Decide encouraged by your family	2	100	1.0	.
Decide encouraged by colleagues	2	98	0.85	0.3173
Decide encouraged by friends	2	98	0.94	0.3173
Which care-provider did you contact first?	5	100	1.0	.
If your first contact was not with a psychiatrist...	5	100	1.0	.
What was your first treatment	4	100	1.0	.
How old were you when you started your first psychopharmacological...	4	100	1.0	.
It was monotherapy/ combination	2	100	1.0	.
antidepressant	2	100	1.0	.
mood stabilizer	2	100	1.0	.
antipsychotic	2	96	0.88	0.1573
How many months did the treatment last?	3	100	1.0	.
Why was the treatment stopped?	7	100	1.0	.

raters registered “no” from all the subjects. For the second one (impulsivity: discontrol episodes, aggressiveness), the first rater registered 48 “no” and 2 “yes”, while the second rater registered 50 “no”. Such condition did not allow calculating neither the K coefficient nor the McNemar test.

However, for all the replies, the K coefficient was higher than 0.8, being the latter unanimously recognized as a very good degree of agreement<sup>28</sup>.

## DISCUSSION AND CONCLUSIONS

More than a half of the replies given by the proposed patients were registered with no discrepancy between the two operators. A minor percent of replies (6.25%) was subjected to an inter-rater agreement below 95%.

Regarding the latter, the two questions involved consist of “family history of psychiatric disorder” and “nature of first symptoms: anxiety”. The family medical history is an important risk factor for several chronic conditions, yet challenges remain in efficiently identifying individuals at increased risk. Some Authors tried to pinpoint a questionnaire capable to detect such subjects, but further investigation is required to develop and formally validate a generic questionnaire, as an useful screening tool in primary care<sup>29</sup>.

The capability of patients to consistently report about their relatives’ history of mental disorder has been previously discussed. Often, patients might not know whether their relatives ever experienced a psychiatric disorder in their life, as such information might be difficult to be shared within certain families, often due to the discomfort and stigma still connected to psychiatric illnesses. In addition, some patients, when interviewed, might remain reticent and contradictory towards such data, in the attempt to protect their relatives’ privacy<sup>30,31</sup>.

Regarding the anxious nature of the first symptoms experienced by the subjects interviewed, the discordance in the registered replies might be explained by the multiform presentation of anxiety and the overlapping symptoms of depressive spectrum. As a matter of fact, some well-established questionnaires, routinely administered to assess patients with a depressive symptomatology (e.g., Hamilton-Depression Rating Scale, Montgomery-Asberg Depression Rating Scale, Beck Depression Inventory, etc.)<sup>32-34</sup>, also investigate symptoms pertaining to the anxiety spectrum (e.g., changes in sleep pattern, asthenia or fatigue, loss of energy, lack of concentration, changes in appetite, etc.)<sup>35,36</sup>. In addition, comorbidity of depressive, anxiety and somatoform disorders has often been observed in patients assessed in primary care clinics and in the general population: in such cases of comorbidities, anxiety disorders might not be detected by the patient or the clinician as a single entity, especially in the context of the psychopathological onset<sup>35,37-40</sup>.

Finally, physical symptoms of anxiety could often be misinterpreted by patients, who usually impute them to organic diseases (i.e. cardiologic, neurological, etc.), because of the predominantly somatic clinical picture: increased heart rate, increased perspiration, muscle weakness, shaking and trembling, paresthesia, tachypnea, etc.<sup>41</sup>.

It has not been possible to calculate either the K coefficient or the McNemar in two circumstances. All the answers were negative for both raters concerning the option of reply “unusual experiences”. This might be explained considering

that such symptoms are normally disruptive for patients and, therefore, they tend to distinctly remember whether such features were present or not at the beginning of their psychopathological picture. In other words, a potential recall bias is less likely to occur for such a disturbing clinical onset. Another reason for this lack of differentiation in answers might be tracked back to the small sample size: when the questionnaire is administered on a large scale of patients, more varied replies may be provided. As a matter of fact, the prevalence of unusual experiences is lower than prevalence of other clinical features of onset (e.g. depression, anxiety) for patients at their first access to the psychiatric services (as the sample collected for the purpose of this work), and mirrors the prevalence of different psychiatric conditions. With regard to the option of reply “impulsivity”, all replies were negative for one rater, while 2 out of 50 were positive for the other rater. We believe this might be due to the operator-dependent nature of the POLT-Q, as further explained below.

As it is conceived, the POLT-Q does not aim to formulate a current diagnosis or to detect a previous one. We believe this is a major point as, by not being a diagnostic tool, the POLT-Q can be used in all the patients with a psychiatric diagnosis and in those who do not have one yet. In addition, it does not investigate the severity of the clinical picture experienced by the patient. Therefore, it can be employed regardless of the stage of illness the interviewee is experiencing.

As a matter of fact, the POLT-Q is intended to be a brief and practical tool to collect some crucial variables of the clinical history of the interviewee. Some further advantages might consist of:

- rapid administration: corresponding to 13 minutes on average;
- manageable: a specialist education is not required in order to administer such questionnaire, but a 1-hour training is sufficient to contemporarily train a variety of sanitary operators (e.g.: general physicians, resident doctors, nurses, psychologists, etc.);
- inexpensive: both the formation of the personnel and the hard copies of the questionnaire are advantageous in terms of costs;
- patient-centred: apt to assess different kinds of patients attending various types of medical settings, e.g. inpatient, outpatients, subjects following rehabilitation program.

Regarding the limitations of the POLT-Q, some of them may be considered operator-related, while some others are patient-related. Although operators are trained to administer the questionnaire in a way to minimize the eventual interviewee’s ambivalence (see the relative section), patients can still produce disputable replies, subjected to different interpretations by two distinct interviewers. As any other operator-dependent examination, the POLT-Q might, therefore, lack of objectivity and can depend on interviewer’s interpretation of data collection. Operator-dependency might explain the minor degree of discordance observed for the 37.25% of the replies registered (yet, for such replies, the inter-rater level of agreement was included between 95% and 99.9%). Recall bias is another limitation of the questionnaire; as any interviewing tool that relies on patient’s memory to summon the earlier stages of clinical history, the POLT-Q might suffer from interviewee’s impaired reliability, espe-

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cially when an older age plays a crucial role<sup>42</sup>. Finally, the strength of evidence might be limited by the small sample size; in consideration of the heterogeneity of the disorders assessed, a inter-rater reliability test over a larger number of patients might be suitable.

According to our experience, as the POLT-Q identifies two key time points in the emergence of the psychopathological onset, i.e. the starting date of the first symptoms and

the age at first pharmacological treatment, such tool could be used in the daily clinical practice as a convenient, reliable and standardised measure for DUI. Further studies on larges sample of patients are needed in order to confirm such preliminary results.

*Conflict of interests:* the authors have no conflict of interests to declare.

**Psychopathological Onset and Latency to Treatment Questionnaire (POLT-Q)**

I would like to ask some questions about symptoms you might have experienced – asking in particular detail about the onset of those symptoms. The questions are about the first period of illness – which may not be the current period. Early symptoms might be quite different to the symptoms you have now. The information we gather will be kept confidential and would only be used for research purposes.

INTERVIEWER number       CENTER number       DATE --  
dd/mm/yyyy

**PATIENT DATA**

• First and Last Name: \_\_\_\_\_

• Address: \_\_\_\_\_

• Date of birth: -- (dd/mm/yyyy)

• Place of birth: 1= city; 2= town; 3 = village

• Gender: 1= male; 2= female

• Citizenship:

• Education: [1] [2] [3] [4] [5] 1= primary school  
2= middle school  
3= high school  
4= professional course(s)  
5= higher degree/PhD

• Occupation: [1] [2] [3] [4] [5] [6] [7] 1= student  
2= housewife  
3= unemployed  
4= part-time job  
5= full-time job  
6= retired  
7= medically retired

• Marital status: [1] [2] [3] [4] [5] [6] 1= married  
2= common-law  
3= single  
4= separated  
5= divorced  
6= widow/er

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- Family history of psychiatric disorders:  
[1] [2] 1= yes; 2= no
- Main psychiatric diagnosis (DSM-IV) at the time of the interview \_\_\_\_\_  
and other psychiatric comorbidities on Axis I \_\_\_\_\_ Axis II \_\_\_\_\_  
Medical \_\_\_\_\_

#### 1) ONSET

- Since simple phobias (animals, heights, blood, etc...) are very common, we kindly ask you to not consider them as the first symptoms of the current illness. However, have you ever suffered / are you currently suffering from phobias?  
[1] [2] 1= yes; 2= no
- How old were you when the first symptoms of your current illness start? \_\_\_\_\_ years old
- What was the nature of these symptoms? (tick one/more than one box/es and mark specific symptoms, even more than one)
  - Anxiety (e.g.: worries, fears, panic attacks, agoraphobia, somatizations, obsessions, etc.) 1= yes; 2= no [1] [2]
  - Affective (e.g.: low mood, feelings of sadness and guilt, apathy, anhedonia, loss of interest, fatigue, elevated mood, hyperactivity, etc.) [1] [2] 1= yes; 2= no
  - Bodily symptoms (e.g. sleep, appetite, libido alterations, etc.) [1] [2] 1= yes; 2= no
  - Substance abuse (e.g.: alcohol, cocaine, heroin, amphetamines, cannabinoids, etc.) [1] [2] 1= yes; 2= no
  - Unusual experiences (e.g.: suspiciousness, hallucinations, misperceptions, feelings/conviction of environment hostility, social withdrawal, etc.) [1] [2] 1= yes; 2= no
  - Impulsivity (discontrol episodes, aggressiveness) [1] [2] 1= yes; 2= no
- How many months passed from the first symptoms to the full expression of your illness? \_\_\_\_\_ months
- At the onset of your first symptoms, did any stressful event occur?  
[1] [2] 1= yes; 2= no
- If so, please specify which ones
  - Trauma [1] [2] 1= yes; 2= no
  - Abuse [1] [2] 1= yes; 2= no
  - Life events (including: bereavement, end of a relationship, family problems, job problems, car accidents, etc.) [1] [2] 1= yes; 2= no
  - Physical illness [1] [2] 1= yes; 2= no
  - Post-partum depression [1] [2] 1= yes; 2= no

#### 2) FIRST TREATMENT

- How many months after the symptoms onset did you seek help from a health care-provider?  
\_\_\_\_\_ months
- How old were you? \_\_\_\_\_ years old
- Did you decide
  - on your own [1] [2] 1= yes; 2= no
  - encouraged by your family [1] [2] 1= yes; 2= no
  - encouraged by colleagues [1] [2] 1= yes; 2= no
  - encouraged by friends [1] [2] 1= yes; 2= no
- Which care-provider did you contact first?  
[1] [2] [3] [4] [5] [6] 1= Psychiatrist  
2= Psychologist  
3= Neurologist  
4= General Practitioner  
5= other

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- If your first contact was not with a psychiatrist, how many months did you wait before seeing one?  
\_\_\_\_\_ months
  - What was your first treatment?  
[1] [2] [3] [4]
    - 1= Talking treatments
    - 2= Psychotropic drugs (excluding benzodiazepines\*)
    - 3= 1+2
    - 4= other (including homeopathy, natural remedies, etc)
- \*If the first treatment was a benzodiazepine (e.g. diazepam, lorazepam) how old were you when you were first administered the drug? \_\_\_\_\_ years. How many months did you take it for? \_\_\_\_\_ months
- How old were you when you started your first psychopharmacological treatment (other than benzodiazepines)? \_\_\_\_\_ years
  - It was:
    - [1] [2]
    - 1= monotherapy
    - 2= a combination treatment (not including benzodiazepines)
  - What drug class was it?
    - [1] [2] [3]
    - 1= antidepressant
    - 2= mood stabilizer
    - 3= antipsychotic
  - How many months did the treatment last? \_\_\_\_\_ months
  - Why was the treatment stopped?
    - [1] [2] [3] [4] [5] [6] [7]
    - 1= recovery
    - 2= side effects
    - 3= doctor decision
    - 4= lack of efficacy
    - 5= relapse/hospitalization
    - 6= still ongoing
    - 7= other

**3) VISUAL SUMMARY: help the interviewer to place the symbols and timing on the timeline.**

**Past** \_\_\_\_\_ **Present**

↓= stressfull event

\*=first symptoms

x= first care provider

d=first diagnosis

t = first pharmacological treatment (excluding benzodiazepines)

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