Mental pain is no less real than other types of pain related to parts of the body, but does not seem to get adequate attention. A major problem is the lack of agreement about its distinctive features, conceptualization and operational definition. I will examine some suggested descriptions of mental pain, its association with psychiatric disorders and grief, its assessment and the implications that research in this field may entail.

Definition of Mental Pain

In the literature, terms such as mental pain, psychic pain, psychological pain, emptiness, psychache, internal perturbation, and psychological quality of life have been used to refer to the same construct.

Bakan [1] observed that the individual feels psychological pain at the moment when he/she becomes separated from a significant other. From his perspective, pain is the awareness of a disruption in the person's tendency towards maintaining individual wholeness and social unity. Sandler [2, 3] defined psychological pain as the affective state associated with discrepancy between ideal and actual perception of self. Baumeister [4] referred to mental pain indirectly in his theory on suicide. He viewed mental pain as an aversive state of high self-awareness of inadequacy. When negative outcomes fall far below one's standards of the ideal self and aspirations, and outcomes are attributed to the self, that person experiences mental pain. The basic emotion in mental pain is, thus, self-disappointment.

Shneidman [5] defined psychache as an acute state of intense psychological pain associated with feelings of guilt, anguish, fear, panic, angst, loneliness and helplessness. The primary source of severe psychache ‘is frustrated psychological needs’ [6]. Psychache is the mental pain of being perturbed [7]. Perturbation refers to one's inner turmoil, or being upset or mentally disturbed [7].

Bolger [8] defined emotional pain as a state of 'feeling broken' that involved the experience of being wounded, loss of self, disconnection, and critical awareness of one's more negative attributes.

Essential characteristics of emotional pain were described as a sense of loss or incompleteness of self and an awareness of one’s own role in the experience of emotional pain [8].

Orbach et al. [9, 10] have defined mental pain as 'a wide range of subjective experiences characterized as a perception of negative changes in the self and its function that is accompanied by strong negative feelings'. Intense ‘unbearable’ mental (psychological) pain is defined as an emotionally based extremely aversive feeling which can
be experienced as torment. It can be associated with a psychiatric disorder or with a severe emotional trauma such as the death of a child. Psychological pain has many metaphors borrowed from physical pain (e.g. heartache, broken heart).

**Borderlands with Suffering and Other Types of Pain**

The International Association for the Study of Pain [11] defined pain as ‘an unpleasant sensory and emotional experience associated with actual or potential tissue damage, or described in terms of such damage’. The existence of many types of pain can be understood by the identification of four broad categories: nociception, persistence of many types of pain can be understood by the damage, or described in terms of such damage’. The experience associated with actual or potential tissue damage, or described in terms of such damage’.

Cassell [12] underscored that ‘suffering can be the result of pain, or it can be engendered by many other states, such as fear, anxiety, depression, hunger, fatigue, or loss of loved objects. Suffering exists only in the mind and the events that lead to suffering will differ from one patient to another. There are no physical examination clues or laboratory tests or imaging studies that reveal its presence.

We must ask the patient and listen to his or her narrative to find suffering.

Frankl [14] viewed suffering as a form of emptiness due to loss of meaning in life, underlining that cause of psychological problems originates from existential frustration. He added that ‘… existential frustration is in itself neither pathological nor pathogenic. A person’s concern, even his despair, over the worthwhileness of life is an existential distress but by no means a mental disease’ (p. 123). The individual basic concern should not be to avoid pain or gain pleasure, but to see meaning in life [15]. Suffering terminates at the moment a meaning is found for it [16].

Saunders [17, 18] emphasized the connection between physical pain and mental suffering: ‘If physical symptoms are alleviated then mental pain is often lifted also.’

This view has many similarities with Cassell’s [19, 20] definition of suffering. According to Cassell [19], suffering can be defined as a state of severe distress associated with events that threaten the intactness of the person, that occurs when an impending destruction of the person is perceived. ‘Suffering is experienced by persons, not merely by bodies, and has its source in challenges that threaten the intactness of the person as a complex social and psychological entity’ [19]. Suffering alienates the sufferer from self and society [21], and may engender a ‘crisis of meaning’ [22] and a disintegration of hope [23].

The term ‘suffering’ contains nonphysical dimensions – social, psychological, cultural, spiritual – associated with being a person that are relatively unaddressed in medical training [24]. As Sensky [25] noted, the term ‘suffering’, however, may mean different things to different people. Expressions such as ‘suffering from intense pain’, ‘suffering from a terminal illness’ or even ‘suffering a hangover’ are indicative of these ambiguities.

The borderland between mental pain and pain referred to the body is also of difficult definition, since pain always involves a psychological component [26]. Engel [26, p. 45] defines pain ‘as a psychological experience involving the concepts of injury and suffering, but not contingent on actual physical injury. The idea of injury as well as the need to suffer may lead to pain, just as may a real lesion or injury. Similarly, the need not to suffer or not to accept the fact that injury may render a “painful” injury painless.’

**Mental Pain and Depression**

Klein [27] developed a dimensional model of unipolar, endogenomorphic depression based on three specific neurobiologic factors: inhibited central pleasure, disinhibited central pain, and inhibited psychomotor facilitatory mechanisms. Inhibited central pleasure represents an inability to respond to positive internal and external stimuli and results in anhedonia, lowered self-esteem, and hopelessness. Disinhibited central pain can be described as ‘psychic pain’ and represents an overresponse to negative images and stimuli. Subjects feel unhappy, guilty, agitated, and experience painful ruminations. Finally, inhibited psychomotor facilitatory mechanism is synonymous with psychomotor retardation, decreased energy, and slowed thinking.

Carroll [28, 29] extended Klein’s model to characterize mood states in bipolar disorder. His model included four neurobiologic components (consummatory reward, incentive reward, central pain, and psychomotor function). Central pain is increased in depression, as reflected by agitation, pathologic guilt and hopelessness. In the depressed phase, this system is seen as disinhibited; stimuli that were previously nonaversive are experienced as distressing. On this basis, the depressed patient perceives neutral events as catastrophic. Changes in self-image due to central pain dysregulation go beyond feelings of incompetence and devaluation. The depressed patient perceives himself/herself as bad, unworthy, and guilty. In manic patients, a disinhibition of central pleasure repre-
sents an overresponse to positive images and stimuli, resulting in inflated self-esteem, grandiosity, increased enjoyment of the environment, excessive activity, intrusiveness, and unrealistic optimism about the future. Inhibited central pain, proposed to occur in mania, results in an inability to perceive the negative qualities of oneself and one's environment. Clinical symptoms include inflated self-esteem, elation, a disregard for the painful consequences of one's behavior, and overoptimism about the future.

Indeed, several psychopathologists [e.g. 30] have emphasized that the patients with endogenous depression may manifest a 'distinct quality' of dysphoric mood. This feature was recognized by early clinicians [31, 32] and was described as a uniquely aversive, anguished, or uncomfortable experience that is characterized by painful tension and torment [31].

The study of van Heeringen et al. [33] reported changes in brain functioning in association with mental pain in depressed patients. The results showed that levels of mental pain do not correlate with severity of depression but are associated with an increased risk of suicide. The severity of mental pain in these depressed patients was associated with changes in cerebral blood flow in areas of the brain that are involved in the processing of emotions. The observation that depressed individuals become suicidal when they perceive their emotional state as painful and incapable of change [34] suggests a strong and persisting emotional input at the prefrontal level. Even though the findings of van Heeringen et al. [33] indicate that dorsolateral hyperactivity is associated with increased levels of mental pain, the interpretation of this association needs further study.

**Mental Pain and Suicide**

Psychological pain is a common construct for understanding suicide [5, 9, 35–37]. Suicide risk is much higher when the general psychological and emotional pain reaches intolerable intensity [38], particularly in the context of major mood disorders [39]. Shneidman [5] considered psychache to be the main ingredient of suicide and reported that psychological pain may be correlated to the fact that, if suffering individuals could somehow stop consciousness and still live, they would opt for that solution [40]. Shneidman [41] further postulated that psychache is intolerable because it results from basic needs that have been thwarted. Suicide occurs when the psychache is deemed by that individual to be unbearable. It is an escape from intolerable suffering. Pain threshold and pain tolerance are highly and negatively correlated with personal distress in suicidal persons [42–44]. In nonsuicidal persons, intense mental pain is associated with high sensitivity to bodily pain. Conversely, among suicidal persons, intense mental anguish is associated with low sensitivity to bodily pain.

**Mental Pain and Other Psychiatric Disorders**

Patients with borderline personality disorder have a range of intense dysphoric affects, sometimes experienced as aversive tension, including rage, sorrow, shame, panic, terror, and chronic feelings of emptiness and loneliness. These individuals can be distinguished from other groups by the overall degree of their multifaceted emotional pain [45, 46]. This emotional pain has been interpreted as a response attempting to adapt to repetitive traumatic experiences in childhood such as the loss of a parent, parental mental illness, witnessed violence, emotional, physical and sexual abuse [47]. Emotional pain is described as intense by women who suffer from borderline personality disorder, and has been associated with a high prevalence of reported childhood abuse [48].

Leibenluft et al. [49] conceptualized self-mutilation as a need to feel a real physical pain as opposed to just an emotional pain. However this conceptualization is not congruent with the consistent reports of no pain upon self-mutilation. It has also been suggested that deliberate self-harm provides physical stimulation (i.e., pain) sufficiently compelling to divert the individual's attention from painful emotional arousal; deliberate self-harm may serve to shift attentional focus away from emotional pain and toward physical pain [50].

Mental pain has also been examined in the setting of post-traumatic stress disorder. Avoidance has been postulated to involve strategic, effortful processes aimed at avoiding trauma stimuli, whereas numbing has been theorized to be a form of conditioned 'emotional analgesia' that results from exposure to uncontrollable and unpredictable aversive stimuli [51]. If an emotional pain site is 'anesthetized', it is difficult to recognize emotions, much less discriminate, describe, or regulate these emotions. In a study involving 85 veterans, Monson et al. [52] assessed the relationships among emotion content and process variables and post-traumatic stress disorder symptomatology with military-related trauma; they suggested that depression may be a secondary effect of numbing recognition rather than vice versa.
**Grief**

Engel [53] underlined that grief is the characteristic response to the loss of a valued object, be it a loved person, a cherished possession, a job, status, home, country, an ideal, a part of the body, etc. Further, Engel pointed out that grief is a cause of mental pain, produces a variety of bodily and psychological symptoms and it interferes with our ability to function effectively. Indeed, the most prominent characteristic of grief is its painfulness [54]. The pain of depression is similar to grief as are other depressive symptoms such as low energy, inward turning, preoccupation, guilt, and self-criticism. However, grief is less often characterized by low self-esteem, pessimism, and hopelessness. Losses of resources, including health, material resources, territory, status, relationships or kin, cause comparable emotional pain. Kato and Mann [55] have suggested, for example, that the loss of a spouse is often conceptualized as a loss of the emotional, instrumental, and financial aspects of social support.

**Assessment of Mental Pain**

Several instruments have been developed to measure mental pain or related constructs.

The Psychological Pain Assessment Scale [5] was influenced in content and structure by the Thematic Apperception Test. It incorporates a written essay component and requires a trained operator to administer the test and interpret the results. It is reported to have modest validity [56, 57].

The Multiple Visual Analog Scale [58] consists of 23 Visual Analog Scale items based on the Carroll-Klein model of manic depressive illness. Each item is presented as a 100-mm line visual analog scale, with appropriate anchor statements describing the manic and depressive extremes of each symptom. Of the 23 items, 7 represent each of the major dimensions of the Carroll-Klein model (consummatory reward, central pain, and psychomotor regulation) and 2 items represent incentive reward. Results from clinical studies demonstrated high test-retest reliability of the Multiple Visual Analog Scale in depressed subjects [59] and good concurrent validity [60].

The Psychache Scale [61] was based on Shneidman’s [5] definition of psychache that was associated with suicidality (i.e., chronic, free-floating, non-situation-specific psychological pain caused by frustration of vital needs) but does not include items relevant to the intensity of psychological pain. The Psychache Scale is a 13-item self-report scale used to assess psychache; items are coded on a 5-point Likert-type scale. Good construct validity and internal consistency have also been reported [62]. The Psychache Scale can successfully differentiate between suicide attempters and nonattempters [61].

The Orbach and Mikulincer Mental Pain Scale [9] consists of 44 self-rated items, and draws on a conceptualization of mental pain as a perception of negative feelings. The items of the Orbach and Mikulincer Mental Pain Scale are divided into 9 factors: (1) irreversibility, (2) loss of control, (3) narcissist wounds, (4) emotional flooding, (5) freezing, (6) self-estrangement, (7) confusion, (8) social distancing, and (9) emptiness. Subjects rate each item on a 5-point Likert scale, with higher values reflecting greater mental pain. The Orbach and Mikulincer Mental Pain Scale demonstrated high internal consistency and test-retest reliability [9] and strong association with suicidality [10].

The Mee-Bunney Psychological Pain Assessment Scale [63] is a 10-item self-rating inventory, where items uniformly used the term ‘psychological pain’ to measure intensity of the pain (ranging from none to unbearable) and frequency (ranging from never to always). The intent of this scale is to provide the clinician with a quick and reliable assessment of psychological pain in psychiatric and nonpsychiatric populations. The Mee-Bunney Psychological Pain Assessment Scale demonstrated convergent validity, known-groups validity and internal reliability. Moreover, major depressive episode subjects with elevated scores on the Mee-Bunney Psychological Pain Assessment Scale had higher suicidality ratings and had an increased likelihood of having a past history of suicide attempts [63].

Büchi et al. [64, 65] have devised a measure called the Pictorial Representation of Self-Measure which, in validation studies [65], behaves as expected of a measure of suffering and fits well with Cassell’s conceptualization of suffering [19, 20]. This measure does not rely on language skills and can be used to rapidly elicit patients’ appraisals of their suffering [66].

All these scales contribute to quantifying mental pain. However, clinicians tend not to ask their patients about their mental pain or suffering [25] and the most widely used interview-based instruments seem to ignore this aspect. Clinimetrics offers important opportunities for assessing clinical phenomena such as mental pain [67, 68]. Table 1 illustrates how information on mental pain can

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**Table 1** illustrates how information on mental pain can
be obtained during an interview and can be rated. The format of the questions and ratings are modeled upon Paykel’s Clinical Interview for Depression [69, 70], the most comprehensive and sensitive assessment tool for affective disorders.

**Clinical and Research Implications**

There is pressing need of research on mental pain, after decades of neglect. Some areas that appear to be particularly important are:

- even though mental pain always has an individual meaning, consensus should be developed on its operational definition;
- mental pain may provide the clinical threshold that is essential for determining the amount of distress that is worthy of clinical attention, in conjunction with diagnostic criteria. It may offer a better specification of the criterion on ‘clinically significant distress’ that frequently recurs in DSM-IV [34];
- the balance between mental pain and psychological well-being [71, 72] deserves attention. Engel [73], in his formulation of the pain-prone personality, outlined how, in some instances, somatic pain is clearly protecting the patient from more intense depression and even suicide, and the psychological profile of the need to suffer;
- the neurobiology of mental pain is a fascinating topic that has been addressed only by a very limited amount of research [33, 37, 74, 75]. It may unravel the brain system that interprets the negative emotional significance of cognitions, with particular reference to the role of amygdala and basal ganglia [28].
- assessment of mental pain may have important implications in intervention research, particularly in psychopharmacology. For instance, depressed patients frequently report that treatment with antidepressant drugs yields substantial relief of their mental pain. Unfortunately, in psychopharmacology research the effects of drugs are measured on a limited range of symptoms [76].

Clinical and research attention to the issue of mental pain may produce important developments in psychiatry and is in line with recent emphasis on patient-reported outcomes, defined as any report coming directly from patients, without interpretation of physicians or others, about how they function or feel in relation to a health condition or its therapy [67].

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**Table 1. Clinical assessment scale for mental pain (copyright Fava GA, Tossani E, 2012)**

This refers to patient’s verbal expressions which indicate the characteristics of mental pain experienced by the person (description, intensity, temporal patterns, associated physiological and behavioral processes that aggravate or alleviate the pain).

‘Do you feel mental pain and suffering that goes beyond what one may experience in life from time to time? How would you describe it? How does it compare with physical pain? Does it hurt all the time or in specific moments? Does it occur every day or less frequently? Is there anything that makes it worse? Is there anything that makes it better? Do you want to die when you feel it? Do you think that only death will stop it?’

Scores:
1 = Absent
2 = Very mild or occasional
3 = Mild (it comes at moments, and goes away)
4 = Moderate (it tends to be steady, even though it may also occur in specific moments)
5 = Marked (it hurts all the time and does not get better)
6 = Severe (it is unbearable)
7 = Extreme (it makes you feel you want to die)
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