A CRITICAL REVIEW OF THE CONCEPT OF PATHOLOGICAL GRIEF FOLLOWING PREGNANCY LOSS

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ABSTRACT

It has often been suggested in the literature on pregnancy loss, that parents run a high risk of complicated or pathological grief as a result of the specific characteristics of such loss. What confuses the issue is that pathological grief has been defined in various ways. In the interest of improving professional care, it is important to ascertain how pathological grief manifests itself and which parents are most likely to have problems coping with pregnancy loss and therefore develop pathological grief reactions. Given the lack of clarity regarding the concept of pathological grief following pregnancy loss, this article reviews empirical studies on pathological grief following pregnancy loss according to four subtypes derived from general bereavement literature: chronic grief, delayed grief, masked grief, and exaggerated grief. It can be concluded that in the first six months following pregnancy loss, psychological complaints, behavioral changes, and somatic complaints are fairly common responses. Approximately 10-to-15 percent of the women develop a psychiatric disorder during the first two years following such loss, and less than 10 percent seek specific psychiatric care. Parents often mourn the loss of their baby for more than a year; one in five women is unable to accept pregnancy loss after approximately two years. A delayed grief reaction occurs in about 4 percent of parents and seems to occur most often in men. It is suggested that developing pathological grief following pregnancy loss may be more uncommon than had previously been thought, and the long-held idea that parents run a higher risk of pathological grief following pregnancy loss seems partly to result from flaws in the empirical studies in this field. A large majority of women seem to be able to recover from pregnancy loss in due time, drawing on their own strength.
The psychological impact of pregnancy loss on parents has long been a neglected subject of study. Research in this area began only two decades ago [1-4]. Contrary to earlier beliefs, it is now common knowledge that parents mourn their lost baby and that bereavement reactions resemble those observed in individuals who have lost a significant other. Following pregnancy loss, parents experience feelings of shock and disbelief [5, 6], of anger, guilt, and intense distress [7-9]. Such reactions as depressed mood, feelings of anxiety and irritability, sleeping and eating disturbances, lessened activity or apathy, and decreased self-respect are also often reported [6, 7, 9-12]. All of these are considered to be quite normal grief reactions. However, many authors suggest that in a pregnancy loss there is a relatively high risk of complicated, disturbed or "pathological" mourning, due to the specific characteristics of this kind of traumatic event. Doka indicated that pregnancy loss was a socially unrecognized loss, and that therefore the loss could become "disenfranchised" and the grief complicated [13]. Social support may be minimal or totally lacking since members of the social network often did not see the child, and particularly in the case of early miscarriage, may not even have known about the pregnancy [8, 14-21]. For the parents themselves, pregnancy loss lacks reality, since sometimes they did not even see the baby, and, particularly often in early pregnancy loss, no funeral or any other kind of memorial service is held [14-16, 18, 21-24]. When parents lose their child, they also lose their fantasies about the baby and the future. Therefore, they have to deal with a "double" loss [14, 20, 25-27]. The mother in particular may experience a loss of self-esteem, because she might feel that she has failed as both a woman and a wife [11, 20]. The loss represents a second crisis, following upon the crisis of pregnancy itself where a happy ending had been expected [14, 19, 28, 29]. In most cases the loss is sudden and unexpected and therefore relatively difficult to deal with [25, 26]. Dealing with pregnancy loss can be further complicated by the fact that fathers and mothers grieve differently following pregnancy loss [20, 23, 30-32]. As the cause of the loss remains unknown in many cases, the mother may blame herself for the death of the baby and may experience strong feelings of guilt because she was the one who was carrying the child [11, 20, 24, 33].

Given the assumed relationship between a pregnancy loss and problematic mourning, several researchers have sought to determine which parents may be particularly at risk of developing more complicated grief reactions. Some important predisposing factors have been found. These are increased pregnancy length, mental health symptomatology prior to the loss, poor physical health prior to the loss, poor social support prior to the loss, and low marital quality prior to the loss [11, 34-37]. Knowing these factors is important for professional care. Furthermore, it helps to identify at an early stage whether particular parents are at risk, and they could be offered extra support to prevent the development of disturbed reactions. There is, however, a major problem in that there seems to be no consensus as to what constitutes "normal" and what constitutes "pathological" mourning [38]. As a consequence, researchers use a wide range of definitions and
it remains questionable how often pathological mourning following a pregnancy loss really occurs and which parents are indeed at risk of complicated reactions. Given this situation, it would seem worthwhile to review the literature in order to gain a more accurate insight into which reactions following pregnancy loss can be expected to be normal in the course of grief and which responses seem to indicate problems dealing with such a loss.

In this article, the following questions will be addressed: 1) How is pathological grief following pregnancy loss defined? and 2) How often do parents develop pathological grief according to empirical studies on early pregnancy loss (miscarriage) and late pregnancy loss (stillbirth, perinatal loss, neonatal death)? In the discussion section of this chapter a more concordant definition of pathological grief following pregnancy loss will be suggested. Because the loss of a baby has much in common with the loss of a beloved older person, we will first discuss the relevant insights concerning normal and pathological grief from the general bereavement literature, before reviewing the pregnancy loss literature.

GENERAL BEREAVEMENT STUDIES

Studies into general bereavement have provided substantial knowledge on the process of mourning. As early as the 1940s, Lindemann wrote on the characteristic grief reactions of bereaved individuals [39]. Bowlby [40], Parkes [41] and Kübler-Ross [42], described common grief responses in terms of phases, or stages of grief. As the bereaved individual had to detach emotionally from the deceased, it was supposed that he or she had to work through all of the phases of grief before mourning was finally resolved [40, 43]. Although this attachment theory and the model of grief derived from it is still found to be the most useful concept within bereavement research [38], the stage model is nowadays more used as a tool for understanding the reactions the bereaved may experience. As Schuchter and Zisook summarize:

Grief is not a linear process with concrete boundaries but, rather a composite of overlapping, fluid phases that vary from person to person. Therefore stages are meant to be general guidelines only and do not prescribe where an individual “ought” to be grieving in the grieving process [44, p. 23].

Wortman and Silver even oppose the notion of “having to live through the emotions following a loss” as, in their opinion, not all individuals grieve for a loss [45].

With regard to the time needed for grieving, it used to be that the bereaved person was expected to recover from the loss “in a relatively short time.” Peretz stated that normal grief could last up to six months or a year [46]. Parkes also mentioned six months as the usual grief period [47]. Nowadays, more authors
agree that the time needed to grieve differs from individual to individual, and therefore a standard duration is hard to define [43]. It is thought that some individuals may continue to grieve endlessly over a loss [44, 45].

As it is more and more accepted that each individual can grieve over a loss in his own manner and at his own pace, the boundaries for those responses that are considered “normal” have become more flexible. It is therefore not surprising that there are no clear definitions of “normal” and “pathological” grief. According to Horowitz and his colleagues the inability to adapt after a loss experience is termed pathological grief [48]. Bowlby suggests that pathological grief distinguishes itself from healthy forms of grieving by the length of time during which grief persists and the extent to which mental functioning is influenced [40]. The length of time which he considers to be normal is, however, not defined. Middleton and colleagues see an intensification or inhibition of the phenomena of normal bereavement, or a delay or prolongation of the processes of normal grieving, as indicative of pathological grief [38]. It seems, then, that pathological grief reactions can be differentiated from normal responses to a loss by means of two axes; a “time axis” and an “intensity axis.”

Several subtypes of pathological grief have been suggested in general bereavement research. Four of these are: delayed grief, chronic grief, masked grief, and exaggerated grief. Experts working in the field of bereavement believe the most readily in the existence of delayed grief and chronic grief [38]. In delayed grief, grief may be (almost) absent immediately following the loss and, as a consequence (re)appear to an excessive extent at a subsequent loss or at reminders of the former loss [14, 20, 38, 39, 43, 46, 49, 50]. The time-span prior to the appearance of grief reactions may range from several days [50] to several months [46] or years [39]. In chronic grief, reactions are of excessive duration and the grieving process is not worked through satisfactorily [14, 20, 38, 40, 43, 46, 49, 50]. Absent grief was the next subtype of pathological grief most often believed to exist by bereavement experts [38]. This is defined as a denial of feelings about the loss; the individual presents no external signs of grieving, and continues to act as though nothing has happened. Worden who refers to this type of pathological grief as “masked grief,” believes that, since the grief is repressed, it generally manifests itself in one to two ways: it is masked either as a physical symptom or through some type of maladaptive behavior [43]. In both cases the bereaved does not connect these symptoms with the loss experience [43]. The term “masked grief” is used in this article to draw a clearer distinction from delayed grief. Opinions are divided on the existence of other subtypes of pathological grief [38]. There are those who label as “pathological grief” psychiatric disorders such as a clinical depression when they follow a loss [43, 51]. Worden, who refers to the development of a psychiatric disorder following a loss as exaggerated grief, also includes anxiety disorders, post-traumatic stress disorder (PTSD), and substance-abuse disorder [43].
Researchers in the field of pregnancy loss have determined their own criteria for differentiating "pathological" grief from "normal" grief. Table 1 provides an overview of empirical studies on pregnancy loss, and the definitions used for pathological grief.

The empirical studies in the field of pregnancy loss will be discussed in relation to the four subtypes of pathological grief mentioned previously: delayed, chronic, masked, and exaggerated grief.

**Defining and Assessing Pathological Grief Following Pregnancy Loss**

Since delayed grief can only be assessed after a relatively long time, it has received relatively little attention. The majority of studies present no clear criteria with regard to the "time-axis" of the course of grief [5, 52, 53]. A problem concerning this kind of grief is that an absence of responses shortly following a loss may indicate feelings of denial and shock, i.e., the first stage of grief which could last from a few hours to a week or more [40]. LaRoche and colleagues seem to confuse delayed grief with an absence of response as a result of shock, since in their definition, "delayed grief" was marked by an onset of responses within three months after an absence of response immediately following the loss; and this, they termed "pathological" [54].

Several researchers have studied chronic grief, but definitions of "chronic" vary. Turner and colleagues considered grief reactions after one month following miscarriage as prolonged [55]. As the normal course of grief is expected to last for at least six months to a year, these responses can hardly be considered chronic reactions to pregnancy loss. A time frame of about a year as a normal grief trajectory following pregnancy loss was used in two studies [52, 56], and in only one study were intense grief responses in the first two years following pregnancy loss considered to be a normal response to the loss [5].

Sometimes the "replacement child syndrome" [57, 58] is mentioned in connection with pregnancy loss [49, 59]. This syndrome could be regarded as a masked grief reaction, as grief is repressed and the feelings of emptiness engendered by the loss of the baby are assuaged by the birth of another child [58]. Moreover, the subsequent child is idealized in a way which could be regarded as a maladaptive behavior, one of the key signs of masked grief [43]. In two studies the "replacement child syndrome" is used as a possible indicator of pathological grief [60, 61]. In these studies an over-idealization of the dead infant and not seeing the subsequent child as a separate individual are used as key signs of pathological grief. In some studies, maladaptive behavior such as being socially immobilized [11, 36, 60, 62-65], or somatic complaints [11, 36, 63, 64] are used as indicators of
<table>
<thead>
<tr>
<th>Research Group; Year of Publication</th>
<th>N</th>
<th>Kind of Loss</th>
<th>Definition</th>
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<tbody>
<tr>
<td>Kennell, Slyter, and Klaus (1970)</td>
<td>18 Women</td>
<td>Neonatal death</td>
<td>Pathological grief</td>
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<tr>
<td>Wolff, Nielsen, and Schiller (1970)</td>
<td>50 Women initially, 40 Women long term</td>
<td>Stillbirth</td>
<td>Atypical grief reaction</td>
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<td>Cullberg (1972)</td>
<td>56 Women</td>
<td>Perinatal death</td>
<td>Chronic maladaptive behavior</td>
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<tr>
<td>Comey and Horton (1974)</td>
<td>1 Woman</td>
<td>Spontaneous abortion</td>
<td>Pathological grief</td>
</tr>
<tr>
<td>Benfield, Leib, and Vollman (1978)</td>
<td>50 Couples</td>
<td>Neonatal death (within 42 days after birth)</td>
<td>Pathological grieving</td>
</tr>
<tr>
<td>Helmrath and Steinitz (1978)</td>
<td>7 Couples</td>
<td>Neonatal death</td>
<td>Pathological grief</td>
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<tr>
<td>Lewis and Page (1978)</td>
<td>1 Woman</td>
<td>Stillbirth</td>
<td>Failed mourning</td>
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<tr>
<td>Rowe, Clyman, Green, Mikkelsen, Haight, and Ataide (1978)</td>
<td>26 Women</td>
<td>Perinatal loss (stillbirth, neonatal loss)</td>
<td>Morbid or prolonged grief reactions</td>
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<tr>
<td>Clyman, Green, Rowe, Mikkelsen, and Ataide (1980)</td>
<td>35 Women and 26 Men</td>
<td>Neonatal loss</td>
<td>Unresolved grief</td>
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<td>Stack (1980)</td>
<td>5 Women (case studies)</td>
<td>Spontaneous abortion</td>
<td>Pathological grief</td>
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### Specification/Operationalization

<table>
<thead>
<tr>
<th>Condition</th>
<th>Measures</th>
<th>Time of Assessment</th>
<th>Outcome</th>
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<tbody>
<tr>
<td>Lindemann's description of distorted grief</td>
<td>Semistructured interview and self-developed questionnaire</td>
<td>Between 3 and 22 weeks</td>
<td>1 of 18 = 5.6%</td>
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<tr>
<td>Severe emotional reaction</td>
<td>Interview (also aimed at intervention)</td>
<td>I at 2 days; II at 4 days</td>
<td>2 of 50 = 4% (they also had</td>
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<td>One to several assessments at one to three years</td>
<td>psychological problems before the loss)</td>
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<tr>
<td>Psychosis, anxiety disorder, phobia, obsessive thoughts, depression</td>
<td>Interview (psychiatric)</td>
<td>Between 1 and 2 years</td>
<td>19 of 56 = 33.9%</td>
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<tr>
<td>Crying episodes, increased irritability, self-mutilation behavior,</td>
<td>Psychiatric consultation</td>
<td>At 4 months</td>
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<tr>
<td>depression, anger, and anxiety</td>
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<tr>
<td>Criteria Lindemann (1944)</td>
<td>Self-developed questionnaire</td>
<td>Between 11 to 97 days</td>
<td>1 of 50 = 2% (woman had already received psychiatric care during pregnancy)</td>
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<tr>
<td>Criteria Lindemann (1944)</td>
<td>Interview</td>
<td>Between 4 to 8 months</td>
<td>0%</td>
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<tr>
<td>Depression and difficulty with caring for the subsequent child</td>
<td>Clinical observation</td>
<td>At 1 year</td>
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<td>(Replacement Child Syndrome)</td>
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<tr>
<td>Grief apparent longer than 12 to 20 months after the loss</td>
<td>Open-ended interview and observation based on statements made by the women</td>
<td>Between 10 to 22 months</td>
<td>6 of 26 = 23.1%</td>
</tr>
<tr>
<td>Thoughts of the death continuously there, but now starting to get out and about or &quot;immobilized&quot; either emotionally or in their daily activities by the death</td>
<td>Open-ended interview</td>
<td>Between 2 to 4 months</td>
<td>21 of 61 = 34.4%</td>
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<tr>
<td>A vivid clear memory of events surrounding the loss: frequent flashing of the events of the day or of specific scenes of the loss; an anniversary effect, either on the date of the miscarriage or on the calculated birth date; persistence of affect, such as sadness or anger, when talking about the loss, and flooding of emotion at the time of a subsequent crisis</td>
<td>Psychotherapeutic interview</td>
<td>Between 4 months to 21 years</td>
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<td>N</td>
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<td>Forrest, Standish, and Baum (1982)</td>
<td>50 Couples</td>
<td>Perinatal death (stillbirth or neonatal death within 7 days after birth)</td>
<td>Atypical grief reactions</td>
</tr>
<tr>
<td>LaRoche et al. (1982)</td>
<td>31 Women</td>
<td>Perinatal loss</td>
<td>Inappropriate grief reactions</td>
</tr>
<tr>
<td>Laurell-Borulf (1982)</td>
<td>67 Women</td>
<td>Stillbirth</td>
<td>Incomplete mourning</td>
</tr>
<tr>
<td>LaRoche et al. (1984)</td>
<td>30 Women; 17 reassessed, 13 new cases</td>
<td>Perinatal death</td>
<td>Pathological grief</td>
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<tr>
<td>Specification/Operationalization</td>
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<tr>
<td>Psychiatric and psychosomatic disorders based on Parkes and Brown (anxiety, somatic symptoms, impairment of social functioning and depression)</td>
<td>Semi-structured interview and two standardized self-rating scales to measure psychiatric disorder (General Health Questionnaire(GHI) to give a general assessment of psychiatric disorder and the Leeds Scales which gives information about presence of depression and anxiety)</td>
<td>I at 6 months; II at 14 months (Subjects were divided into control and experimental group, in which the experimental group received care after the loss)</td>
<td>ASI: 12 of 35 (= 34.3%) had high GHI; 17 of the 35 (= 48.6%) on Leeds ASII 5 of the 30 (= 16.7%) on GHI and 2 of the 30 (= 6.7%) on Leeds</td>
</tr>
<tr>
<td>When grief is overly intense or shallow or absent</td>
<td>Clinical observation and evaluation of the items</td>
<td>I at one to two days; II at two to three weeks; III at 3 months</td>
<td>11 of 31 = 35.5%</td>
</tr>
<tr>
<td>Bad outcome based on having met fewer than 8 of 11 criteria (self-developed). No repression of trauma, talk in realistic way about event, no idealization of dead infant, realistic view at guilt feelings, no blaming of others, ability to forgive self and others, seeing subsequent child as individual, competent social life, having no psychological symptoms as a result of the loss, no frequent thoughts about the baby, no uncontrolled emotions when talking about the event.</td>
<td>Unstructured interview</td>
<td>Between 12 to 14 years</td>
<td>21 of 67 = 31.3%</td>
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<tr>
<td>Depression</td>
<td>Clinical interview and standardized rating scales of depression (BDI) and a mourning scale which was originally developed by Kennel and Klaus (1970) and was adapted by the authors</td>
<td>I at one to two days; II at two to three weeks; III at 3 months; IV at one to two years</td>
<td>At AS IV: 4 of 30 = 13.3%</td>
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Table 1. (Cont'd.)

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<thead>
<tr>
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<tbody>
<tr>
<td>Nicol, Tompkins, Campbell, and Syme (1986)</td>
<td>110 Women</td>
<td>Perinatal loss (stillbirth, neonatal death within 28 days after birth)</td>
<td>Pathological bereavement</td>
</tr>
<tr>
<td>Tudehope, Iredell, Rodgers, and Gunn (1986)</td>
<td>67 Couples</td>
<td>Neonatal death and postneonatal death</td>
<td>Pathological grief</td>
</tr>
<tr>
<td>Murray and Callan (1988)</td>
<td>91 Women and 39 Men</td>
<td>Perinatal death (stillbirth or neonatal death within 28 days after birth)</td>
<td>Personal adjustment problems</td>
</tr>
<tr>
<td>Smith and Borgers (1988-89)</td>
<td>115 Women and 61 Men</td>
<td>Perinatal loss (miscarriage, stillbirth, neonatal loss, infant death)</td>
<td>Atypical response</td>
</tr>
<tr>
<td>Friedman and Gath (1989)</td>
<td>67 Women</td>
<td>Spontaneous abortion</td>
<td>Atypical grief reactions</td>
</tr>
<tr>
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<tr>
<td>Marked deterioration in physical and mental health (general nervousness, insomnia, headaches, excessive tiredness, nightmares, persistent fears, depression, fear of nervous breakdown, feelings of panic, and repeated peculiar thoughts) and increased social adjustment problems, based on criteria Lindemann (1944)</td>
<td>Standardized scale; General Health Inventory</td>
<td>Between 6 to 36 months</td>
<td>23 of 110 = 21%</td>
</tr>
<tr>
<td>One or more serious symptoms disturbing day to day functioning (sleep disturbances: insomnia, nightmares, early waking/delay, depression, uncontrolled crying/anorexia, weight loss/nervousness, anxiety/social withdrawal/morbid preoccupation/guilt, anger, hostility/psychosomatic symptoms)</td>
<td>Interview</td>
<td>At 2 months</td>
<td>21 of 67 = 31.3%</td>
</tr>
<tr>
<td>Depression, decreased self-esteem and decreased psychological well-being</td>
<td>Structured standardized self-report measures: a global rating of well-being or happiness, a self-esteem scale, and from the Health and Daily Living Form an 18-item measure of global depression</td>
<td>For two-thirds of the parents within 2 years, one-third after two years. (Unclear how long: mean-time for men was 24.7 months and for women 27.4 months)</td>
<td>Parents were significantly more depressed than a community sample, but had fewer symptoms than depressed patients</td>
</tr>
<tr>
<td>Denial, atypical response, social desirability, guilt, anger/hostility, despair, social isolation, loss of control, rumination, depersonalization, somatization, and death anxiety</td>
<td>Standardized self-report scale: Grief Experience Inventory (GEI) that consists of 12 subscales</td>
<td>Between 6 months and 7 years</td>
<td></td>
</tr>
<tr>
<td>Psychiatric disorder</td>
<td>Present State Examination to assess mental state and Standardized Rating Scales to assess depression (Madrps, Hamilton, BDI) marital relationship (MMQ), personality (EPQ) and social adjustment (SAS-M)</td>
<td>Present State Examination to assess mental state and Standardized Rating Scales to assess depression (Madrps, Hamilton, BDI) marital relationship (MMQ), personality (EPQ) and social adjustment (SAS-M)</td>
<td>32 of the 67 = 47.8%</td>
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### Table 1. (Cont'd.)

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<tbody>
<tr>
<td>Cuisinier, Janssen, Timmers, and Hoogduin (1990)</td>
<td>50 Women</td>
<td>Miscarriage and stillbirth</td>
<td>Disturbed mourning</td>
</tr>
<tr>
<td>Turner et al. (1991)</td>
<td>300 Women</td>
<td>Miscarriage</td>
<td>Prolonged grief Unresolved grief</td>
</tr>
<tr>
<td>Hunfeld et al. (1993)</td>
<td>41 Women</td>
<td>Perinatal death or baby diagnosed as severely malformed</td>
<td>Pathological grief</td>
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</table>

pathological grief. These reactions could also be considered as forms of masked grief [43]; since they result from the loss of the baby, these might both be seen as indirect ways of expressing repressed grief. As maladaptive behavior or physical symptoms also form part of the normal course of grief [44], they should only be considered pathological if these reactions are present, but the bereaved is unable to connect them with the loss [43]. This criterion was not included in the definitions of pathological grief in the empirical studies.

Psychiatric symptoms are often looked to as an indication of "pathological grief" or exaggerated grief. Throughout the empirical studies, however, opinions vary as to the moment when responses have become so intense that they can no longer be considered a normal response to a loss. In some studies, the presence of psychological symptoms is used as an indicator of pathological grief [10, 11, 36, 60, 64-66], whereas in others only a psychiatric disorder is considered pathological [17, 63, 67]. Some researchers employ the criterion of seeking psychiatric or psychotherapeutic treatment following pregnancy loss as an indication of pathological grief [3, 4, 7, 8].
In conclusion, the subtypes of pathological grief which are more frequently studied are chronic grief and exaggerated grief. In reviewing the definitions used for chronic grief, it becomes obvious that researchers have different views with regard to the normal time course of grief following pregnancy loss, and in general parents are expected to get over the loss in a relatively short time. A similar variety of views is found when one looks at the intensity of responses within the definitions of exaggerated grief. Psychological complaints are seen by some as a pathological response, whereas these might more easily indicate that pregnancy loss is a significant life event that, for a time, evokes a mental imbalance. In a few studies, the response was termed pathological if a psychiatric disorder had developed as a result of pregnancy loss. Delayed grief has been investigated only incidentally, and it is amazing that the absence of reactions only in the first weeks following a loss is sometimes considered pathological. As far as masked grief is concerned, the “replacement child syndrome” has received little empirical attention, and although physical symptomatology and maladaptive behaviors have been more widely studied, it remains unclear as to whether they do indeed result
from the previous repression of grief and really do indicate pathological grief. In general, there is no consensus on definitions.

Findings Related to Pathological Grief

In the first year following miscarriage or perinatal loss, approximately 20 to 30 percent of women have been found to show "pathological" grief [55, 56, 68], which, according to the definitions employed in those studies, can be classified under the chronic subtype of pathological grief. After two years 20 percent of the women still indicated that they had not been able to accept the miscarriage or stillbirth [5].

Delayed grief was thought to be present in 4 percent of women following either miscarriage or stillbirth [5]. In 13.2 percent of the parents, mainly men, a delayed response was found at two years following pregnancy loss [52].

In the masked subtype of pathological grief, no conclusion can be drawn with regard to the occurrence of the "replacement child syndrome." An impairment in social functioning or somatic complaints are found in approximately 20 to 30 percent of men and women within the first six months following neonatal loss [62, 63], but it is not certain whether these reactions can be regarded as pathological since it is not known whether they occurred as a result of repressing grief.

With regard to exaggerated grief, around 30 to 50 percent of men and women show psychological complaints such as feelings of depression and anxiety within the first year following perinatal loss [11, 65]. After a year this percentage drops to approximately 10 percent [11, 17] to 30 percent [10, 36]. In one study [60], women's grief was examined twelve to fourteen years following stillbirth. After this time 31 percent of the women still evidenced severe psychological complaints. About 10 to 15 percent of the women who had experienced a perinatal loss met the criteria for a psychiatric disorder in the first two years following the loss [17, 63]. Women rarely seek psychiatric care following perinatal loss; fewer than 6 percent of women asked for this during the first year following neonatal death [3, 7, 8], and about 4 percent asked for it within the first three years following stillbirth [4]. In these studies most women who had previously received psychiatric care, needed it again after the loss of their child.

Of the studies on the psychological impact of miscarriage [67, 69-73], only one [67], terms a strong psychological response as "pathological." It has been reported that, within the first six months following miscarriage, about 30 to 50 percent of women show severe depressive symptomatology or symptoms of anxiety [70-73]. Approximately half of the women could be diagnosed as having a psychiatric disorder within the first three months following miscarriage [67, 69].

Before discussing the results, the design characteristics of the studies on pregnancy loss are first critically reviewed in the next section, as they might explain differences in results.
Design Characteristics of the Studies on Pregnancy Loss

Studies on pregnancy loss conducted in the seventies and early eighties are characterized by relatively small sample sizes, often of less than fifty individuals [3, 17, 54, 56]. Although some later studies, in particular those conducted the most recently, have used larger samples [52, 64], the frequent use of small samples, together with the fact that respondents are often not randomly selected, limits the generalizability of the results. For example, in the study by LaRoche and colleagues, half of the original research sample had dropped out by the follow-up assessment and were replaced by newly recruited women [17, 54]. Others have recruited parents by means of newspaper announcements [5] or support groups [36, 64, 66]. It is highly likely that in groups formed, thus the number of parents found to evidence pathological grief would exceed the number that might be found in a randomly selected group. In future research, more attention will have to be paid to recruitment procedures.

Another shortcoming is that meager use is made of comparison groups consisting of women who are pregnant or who have given birth to a living baby. As the transition to parenthood can also be stressful [74-76], comparison designs should be advocated in order to gain information focused on the impact of pregnancy loss. Only a few studies which were not specifically concerned with pathological grief have used comparison group designs [72, 73, 77-79].

Although grief is a process and reactions change over time, repeated assessments of grief are only seldom carried out. The majority of studies include only one assessment of grief [3, 5, 7, 10, 36, 56, 60, 62, 64-67]. In the future in order to gain more knowledge on the course of grief following pregnancy loss, longitudinal studies with repeated assessments of grief, covering a relatively long period of time, should be conducted.

DISCUSSION

Research on grief following pregnancy loss is characterized by different methodological shortcomings. A major shortcoming, however, is that pathological grief is neither well defined nor measured. Based on the general bereavement literature, empirical studies on pathological grief following pregnancy loss were reviewed on the basis of four subtypes of pathological grief: chronic, delayed, masked, and exaggerated grief.

With regard to chronic grief reactions, the main issues are how long grief reactions can continue before they are considered to be abnormal and they might be seen as an indicator of pathological grief. An examination of the findings of studies on long-term grief following pregnancy loss reveals that parents are expected to get over the loss of their baby relatively quickly. What is also apparent, however, is that many women have not worked through their grief by the
end of the first year. The more liberal view that grieving will last for one to two years after a pregnancy loss is more appropriate. This will be particularly true where the loss occurs later in the pregnancy. There is little real long-term research into chronic grief. It is sometimes reported that around 20 percent of women show chronic grief reactions, but this figure is derived from relatively short-term research, i.e., within a year [56]. The issue of long-term grieving in women following pregnancy loss has to be addressed further in future research.

From the few studies on delayed grief following pregnancy loss, it seems that this type of grief is apparent in only a small minority of women following such a loss. It might also be cautiously concluded that men are more prone to delayed grief than women. A delayed grief reaction is, however, empirically hard to identify. A small percentage of parents do not show any reaction to the loss at all. Although these parents are believed to repress feelings, it might be that they are not emotionally moved by the loss [45], or feelings have already subsided after a few days.

No firm conclusions can be drawn on the existence of the subtype of pathological grief known as “masked grief.” In the first six months following pregnancy loss, women evidence somatic complaints and behavioral changes, but none of the studies showed conclusively that parents had developed behavioral changes or somatic complaints as a consequence of repressing grief. There was no evidence, therefore, of masked grief in the sense put forward by Worden [43]. It seems more likely that in the first months following pregnancy loss, a number of parents exhibit somatic complaints and an impairment in social functioning as a normal reaction to the loss. It may be that some parents do indeed develop masked grief reactions, but it cannot be ascertained with any degree of certainty how often this occurs.

The incidence of exaggerated grief varies markedly, depending on the criteria used and the time of assessment. The studies that have examined the presence of a psychiatric disorder in women following pregnancy loss have shown that about 10 to 15 percent of the women meet the criteria for a psychiatric disorder. From the scant research that has been carried out into the proportion of women who seek specific psychiatric support following pregnancy loss, it emerges that this applies to only a small minority, less than 10 percent of the women. It is however possible to draw some tentative conclusions from the information obtained. Most of the women who did so had received it earlier in life. It would seem that a pregnancy loss causes such severe stress to parents that it can trigger the recurrence of mental health problems [48]. Psychological complaints would seem to be fairly common among women following pregnancy loss. Depressive symptomatology is particularly common in the first six months, which is not surprising since grief and depression are very much linked [80, 81]. From the empirical studies in which psychological reactions were not labeled as pathological grief responses, it also appears that a substantial number of women (approximately 30 to 50%) develop severe depressive symptomatology in the first six months following miscarriage.
Taking altogether the findings of the empirical studies on pregnancy loss, it can be concluded that severe psychological complaints or behavioral changes and somatic complaints are fairly common responses in the first six months following pregnancy loss, since they are present in approximately 20 to 50 percent of women and men. A psychiatric disorder seems to be less common since only about 10 to 15 percent of the women develop such a disorder during the first two years following perinatal loss, and less than 10 percent of women seek specific psychiatric care. After two years, one in five women report that they have not been able to accept the loss. Delayed grief occurs in about 4 percent of the parents following pregnancy loss and seems to occur more often in men than in women. It must, however, be noted that these figures would have been lower if the definitions of pathological grief had been more stringent and the designs of the studies more rigorous.

For research purposes, and on the basis of this review, we would like to suggest a more narrow definition of pathological grief following pregnancy loss. We suggest that when parents still show great difficulty accepting the loss after one-and-a-half to two years, this might be viewed as a chronic grief response. Another symptom of difficulty in handling the loss would be if parents feel themselves to be in need of professional care because of the loss. Depressive reactions, somatic complaints and an impairment in social functioning in the first six months following pregnancy loss do not seem to be uncommon. A psychiatric mood disorder according to the DSM-IV criteria could, however, be an indication of an extreme response. Evidence of other psychiatric disorders such as anxiety disorder, post-traumatic stress disorder or substance-abuse disorder according to DSM-IV, could be an indication of an exaggerated grief response, while showing a delayed reaction to pregnancy loss after two years could be an indication of pathological grief.

Future research should be aimed at looking for the key signs of a problematic outcome after a loss experience. Stronger designs in which repeated assessments are taken over a period of two years or even longer after the loss should be advocated. Making use of a comparison group design might be helpful in distinguishing psychopathology that develops as a result of the loss experience from that which results from the normal transition to parenthood. Other psychiatric disturbances following pregnancy loss also have to be studied. For example, post-traumatic stress disorder has not yet been empirically studied in relation to pregnancy loss, although Condon [82] has already noted similarities in the reactions a woman showed following pregnancy loss and the criteria for this disorder.

Research has often concluded that a relatively large number of women seem to be at risk of a problematic outcome following pregnancy loss. This conclusion is partly a result of flaws in the empirical studies in this field. If a more narrower and more concordant definition of pathological grief following pregnancy loss were employed, the percentage of parents evidencing pathological grief would very likely be substantially lower than those so far reported. Probably only a small
minority of women (perhaps around 10 to 15%) are actually at risk of developing psychiatric disturbances following pregnancy loss. Although the impact of a pregnancy loss has long been underestimated, and it now seems clear that women in particular may be greatly affected psychologically by pregnancy loss and may in fact show psychiatric symptoms during the first six months, most women seem to be able to recover from a pregnancy loss in the course of time, drawing on their own strength. However, some parents might need bereavement counseling to guide them through the grief process in order to prevent complicated grief reactions. In some cases specialized professional care will be needed to help the parents work through grief and enable them finally to accept the loss of their baby.

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