



How related are hair pulling disorder (trichotillomania) and skin picking disorder? A review of evidence for comorbidity, similarities and shared etiology

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HIGHLIGHTS

- Hair pulling disorder (HPD) and Skin picking disorder (SPD) co-occur more often than chance would predict.
- HPD and SPD have substantial similarities in clinical characteristics and have overlapping risk factors.
- The two disorders likely share etiology and should be categorized together in the DSM-5.

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ABSTRACT

Hair pulling disorder (HPD; trichotillomania) and skin picking disorder (SPD) are relatively common and potentially severe psychiatric conditions that have received limited empirical attention. Researchers are increasingly recognizing the similarities and co-occurrence of HPD and SPD, and several authors have suggested that the two disorders should be categorized together in the DSM-5. In the present article, we critically examined the evidence for comorbidity of HPD and SPD, and reviewed a diverse literature pertaining to shared risk factors and similarities in clinical characteristics. Evidence suggests that the two disorders co-occur more often than can be expected by chance, have substantial similarities in a variety of clinical characteristics (e.g., symptom presentation and course of illness) and may have some distal risk factors in common (e.g., genetic vulnerabilities). Implications for classification in the DSM-5, clinical management and research on etiology were discussed.

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Contents

1. Introduction	619
2. Definitions	619
2.1. Hair pulling disorder (trichotillomania)	619
2.2. Skin picking disorder	619
3. Comorbidity	620
4. Similarities and differences in clinical characteristics	620
4.1. Symptom presentation	620
4.2. Phenomenology	621
4.2.1. Affective experiences	621
4.2.2. Dissociation	621
4.2.3. Automaticity	621
4.3. General demographics	621
4.4. Age at onset	622
4.5. Course of illness	622
4.6. Response to treatment	622
4.7. Relation with other psychopathology	622
4.7.1. Common axis I disorders	622
4.7.2. Axis II disorders	622

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4.7.3.	Obsessive compulsive disorder (OCD)	622
4.7.4.	Body dysmorphic disorder (BDD)	623
4.7.5.	Body focused repetitive behaviors (BFRB)	623
5.	Shared risk factors	623
5.1.	Familiality	623
5.2.	Genetic risk factors	624
5.3.	Neural substrates	624
5.4.	Neurocognitive deficits	625
5.5.	Temperamental antecedents	625
5.6.	Environmental risk factors	625
5.6.1.	Under-stimulated environment	625
5.6.2.	Trauma	625
6.	Discussion	626
6.1.	What is the nature of the relationship between HPD and SPD?	626
6.2.	Future directions	626
6.3.	Implications for research and practice	626
	References	627

1. Introduction

Hair pulling disorder (HPD; trichotillomania) and skin picking disorder (SPD; also known as neurotic/psychogenic excoriation and pathological skin picking) are characterized by recurrent and excessive hair pulling and skin picking, respectively. Both conditions have been described in the medical literature for more than a century (Hallopeau, 1989; Wilson, 1875) but have received limited empirical attention. Mounting evidence shows significant morbidity associated with HPD and SPD, including functional impairment, severe emotional distress, disfigurement and medical complications (Arnold et al., 1998; Diefenbach, Tolin, Hannan, Crocetto, & Worhunsky, 2005; Flessner & Woods, 2006; Franklin et al., 2008; Lewin et al., 2009; Morales-Fuentes, Camacho-Maya, Coll-Clemente, & Vázquez-Minero, 2010; O'Sullivan, Phillips, Keuthen, & Wilhelm, 1999; Odlaug & Grant, 2008a; Odlaug, Kim, & Grant, 2010; Soriano et al., 1996; Tucker, Woods, Flessner, Franklin, & Franklin, 2011; Wetterneck, Woods, Norberg, & Begotka, 2006; Wilhelm et al., 1999; Woods, Flessner, et al., 2006). Nonetheless, little is known about the etiology of these disorders, and there is a lack of consensus about how to conceptualize or categorize them.

Currently, HPD (trichotillomania) is classified as an impulse control disorder in the fourth edition of the *Diagnostic and Statistical Manual for Mental Disorders* (DSM-IV), but SPD lacks its own diagnostic category. In the last two decades, researchers and clinicians increasingly have recognized the similarities and co-occurrence of HPD and SPD (Penzel, 2003), and several authors have suggested that the two disorders should be classified in the same class of disorders in the next edition of the DSM (Bohne, Keuthen, & Wilhelm, 2005; Hoppe, Ipser, Lochner, Thomas, & Stein, 2010; Stein, Chamberlain, & Fineberg, 2006; Stein et al., 2010; Teng, Woods, Twohig, & Marcks, 2002). Moreover, an APA work group (Stein et al., 2010) has provided a preliminary recommendation that SPD should have its own diagnostic category in the DSM-5, and that the two disorders should optimally be classified under the overall category of body focused repetitive behavior disorders (BFRBD). It is thus timely to review the existing literature with respect to the nature and the extent of the relationship between HPD and SPD. Greater understanding of the relationship not only informs nosological decisions, it can also have implications for clinical management and guide research on the etiology of both disorders.

The aim of the present review was to investigate the relationship between HPD and SPD through three lines of inquiry. First, we reviewed studies examining whether co-occurrence of the disorders exceeds chance levels (i.e., whether the two disorders are comorbid). Because co-occurrence of psychiatric conditions can result from various methodological reasons (e.g., Klein & Riso, 1993; Neale & Kendler, 1995), we

critically examined existing studies with the aim of ruling out methodological artifacts. Second, we reviewed a diverse literature pertaining to similarities and differences in clinical characteristics. The current conceptualization of psychiatric disorders (APA, 2000) is based on the assumption that a group of individuals demonstrating similar clinical characteristics (e.g., similar symptom presentation and course of illness) represent a distinct diagnostic entity that reflects common etiology (Robins & Guze, 1970). Likewise, if two syndromes present a highly similar clinical picture, they could share etiological mechanisms. Thus, our second aim was to compare HPD and SPD on a variety of clinical characteristics including symptom presentation, phenomenology, general demographics, age of onset, course of illness, response to treatment and relation with other psychopathology. In our third line of inquiry we examined evidence for shared underlying risk factors including familiality, genetic vulnerabilities, neural abnormalities, neurocognitive deficits, temperamental traits and environmental stressors. Throughout the review we tried to identify methodological limitations and gaps in the literature.

2. Definitions

2.1. Hair pulling disorder (trichotillomania)

HPD involves excessive and recurrent pulling out hairs from the scalp, eyebrows, eyelids, pubic area, legs or other parts of the body. In DSM-IV (APA, 2000), HPD is defined as recurrent hair pulling that is not better accounted for by another mental disorder (e.g., delusions) or medical condition (e.g., dermatological problem), and results in noticeable hair loss and significant distress or functional impairment. Additional criteria include increased arousal before pulling or when the behavior is resisted, and pleasure, gratification or relief when hair is pulled out. Recently, a work group formed by the APA recommended these additional criteria be deleted because many sufferers of clinically significant hair pulling fail to report these experiences (Stein et al., 2010).

2.2. Skin picking disorder

SPD is characterized by excessive and recurrent picking or scratching of the skin on the face, extremities or other parts of the body. People with SPD tend to pick at scabs, acne or other irregularities on the skin. The APA work group (Stein et al., 2010) suggested the following definition of SPD for DSM-5: recurrent skin picking that results in skin lesion(s) and clinically significant distress or functional impairment, but is not restricted to the symptoms of another mental

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