Plastic Surgery Addiction in Patients With Body Dysmorphic Disorder

by Eda Gorbis, Ph.D., M.F.C.C., and Yelena Kholodenko

Definition of the ideal body changes over time and across cultures. In the 18th century, full-figured women were considered attractive. Today, a woman with a slim, long-legged figure is the

token of beauty. In different cultures, different shapes of women are in style. However, for people with body dysmorphic disorder (BDD), appearance is not simply a matter of style. According to the DSM-IV, people with BDD have a pervasive distortion of their self-image and a persistent preoccupation with a

particular part of their body or overall appearance.

When Body Image Becomes a Disorder

Body dysmorphic disorder is also known as dysmorphophobia. It manifests itself as an abnormal dissatisfaction with one's physical appearance and concerns with one's appearance from three to eight hours a day (Phillips, 2001). Of Americans, 30% to 40% have minor concerns with their appearances (Watkins, 2004). However, those minor concerns are transient and do not interfere with their functioning or social/ occupational performance. In the United States, BDD affects about 2% of the population (Phillips, 2001), which is equivalent to 5 million Americans and strikes males and females equally (Phillips and Diaz, 1997). In one study, the onset occurred before age 18 in about 70% of the cases (Albertini and Phillips, 1999). People with BDD often change their social and professional lifestyles to avoid appearing in public and spend excessive time trying to look presentable (Phillips and Castle, 2001).

Surgery and Dermatological Treatment: Signs of the Disease

It is estimated that about 50% of BDD sufferers seek some sort of the professional medical help in the form of plastic surgery or dermatological treatment (Phillips et al., 1993). In one study, out of 268 patients presenting for dermatological treatment, 11.9% screened for BDD (Phillips et al., 2000). In another study of 289 people (250 adults and 39 children) who met DSM-IV diagnostic criteria for BDD, 76.4% of them were looking for nonpsychiatric treatment and 66.0% of adults received it (Phillips et al., 2001). Because BDD is not typically recognized by plastic surgeons and general practitioners, these patients can undergo a succession of invasive procedures. Veale (2000) reported on 25 patients with BDD who had undergone a total of 46 cosmetic procedures before they were diagnosed with BDD. The same article indicated that nine of those 25 patients had performed self-surgery.

Plastic surgery provides no benefit for patients with BDD because it is never good enough, and the obsession persists. In all cases obsession might move from one body part to another. Surgeries and dermatological treatments rarely to almost never improve BDD symptoms and oftentimes worsen them (American Society for Dermatologic Surgery, undated). Another study showed that a majority of the BDD sufferers received nonpsychiatric treatments, but responded poorly to them (Phillips and Castle, 2001; Phillips et al., 1993). About 63% of patients get treatment in both surgery and dermatology. In a survey of cosmetic surgeons, 7% replied that patients with BDD stop requesting surgery after one procedure, 13% that they stop sometimes, and 63% of cosmetic surgeons replied that patients with BDD continue asking for repeated surgeries (Knorr et al., 1967).

(Please see Plastic Surgery Addiction, page 80)

Increased Morfaility in Elderly Palients with Dementia-Related Psychosis: Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo. Analyses of seventeen placebo controlled trials (modal duration of 10 weeks) in these pallentis revealed a risk of death in the drug-treated pallents of between 1.5 to 1.7 times that seven in placebo-treated patients. Over the course of a typical 10 week controlled trial, the rate of death in drug-treated patients was about 4.5%, compared to a rate of about 2.6% in the placebo group. Although the causes of death were varied, most of the deaths appeared to be either cardiovascular (e.g., heart failure, sudden death) or infectious (e.g., pneumonia) in nature. GEDDON (ziprasidone) is not approved for the treatment of patients with Dementia-Related Psychosis.

potentially ratal symptom complex sometimes retirent to a swetur-logic willight and symptom (whis) has been reported in association with administration of antipsychotic drugs. The management of MMS should include: (1) immediate discontinuation of antipsychotic drugs and other drugs not essential to concurrent therapy; (2) intensive symptomatic treatment and medical monitoring, and (3) treatment of any concomitant serious medical problems for which specific treatments are available. If a patient requires antipsychotic drug treatment after recovery from NMS, the potential reintroduction of drug therapy should be carefully considered. The patient should be carefully monitored. other drugs not essential to concurrent therapy. (2) intensive symptomatic treatment and medical monitoring; and (3) treatment to any concomitant serious medical problems for which specific treatments are available. If a patient requires antipsychotic drug treatment after recovery from NMS, the potential reintroduction of drug therapy should be carefully considered. The patient requires antipsychotic drug treatment after recovery from NMS, the potential reintroduction of drug therapy should be carefully considered. The patient should be carefully monitored, since recurrences of NMS have been reported. Tardive Dyskinesia (7D): A syndrome of potentially irreversible, involuntary, sykinetic movements may develop in patients undergoing treatment with antipsychotic treatment, which patients are likely to develop 1D it signs and symptoms of 1D appears in a patient on GEODON, drug discontinuation should be considered. Hyperglycemia and Diabetes Mellitus: Hyperglycemia-related adverse events, sometimes serious, have been reported in patients treated with attended the streatment with a patients treated with a patient streated with a patient streated with a relative streatment and Diabetes Mellitus: Hyperglycemia-related with an adyptical antipsychotic chould be monitored for symptoms of hyperglycemia. PRECAUTIONS — General: Basti, in premarketing trials, about 5% of GEODON patients developed rash and/or urbicari, with discontinuation of treatment in about one-sixth of these cases. The occurrence of rash was dose or straw six dose or steriods and/or urbicari, with discontinuation of treatment in about one-sixth of these cases. The cocurrence or rash was dose or steriods and/or urbicari, with discontinuation of treatment in about one-sixth of these cases. The cocurrence or fash was dose or steriods and/or urbicari, and the stray of the streatment with antihitisamines or steriods and/or urbicarial contribution of GEODON, and all patients were reported to recover completely. Upon appearance or rash for which an alternative additiefly analytinist piloperius. Syrupper was reprinted in 10% or successful and interest of the art disease, heart failure or conduction abnormalities), cerebrovascular disease (history of myocardial infarction or ischemic heart disease, heart failure or conduction abnormalities), cerebrovascular disease or conditions that would predispose patients to hypotension (dehydration, hypovolemia, and treatment with antitipyedrensive medications). Seguings: In clinical trials, seguings occurred in 0.4% of 6E000N patients. There were confounding factors that may have contributed to seizures in many of these cases. As with other antipsycholic drugs, GE000N should be used cautiously in patients with a history of seizures or with conditions that potentially lower the seizure threshold. Hyperprojactinemia, As with other drugs that antagonize dopamine D₂ receptors, GE000N elevates prolactin levels in humans. Tissue culture experiments indicate that approximately one third of human breast cancers are prolactin dependent in vitro, a factor of potential importance if the prescription freese drugs is contemplated in a patient with previously detected breast cancer. Netter clinical studies on repidemiologic studies conducted to date have shown an association between chronic administration of this class of drugs and tumorigenesis in humans; the available evidence investigated his climate to the complexe was a complexed and the inclinities and the form invariance. these drugs is confemplated in a patient with previously defected breast cancer. Neither clinical studies nor epidemiologic studies conducted to date have shown an association between chronic administration of this class of drugs and tumorigenesis in humans; the available evidence is considered too limited to be conclusive at this time. Potential for Cognitive and Motor impairment, Somnolence was a commonly reported adverse event in GEODON patients. In the 4- and 6-week placebo-controlled trials, somnolence was reported in 14% of GEODON patients vor? so fiptacebo patients. Somnolence was reported in 14% of GEODON patients to impair judgment, thinking, or motor skills, patients should be cautioned about performing activities requiring mental alertness, such as operating a motor vehicle (including automobiles) or operating hazardous machinery until they are reasonably certain that GEODON has the potential to impair judgment, thinking, or motor skills, patients should be cautioned about performing activities requiring mental alertness, such as operating a motor vehicle (including automobiles) or operating hazardous machinery until they are reasonably certain that GEODON has they obtain a motor vehicle (including automobiles) or operating hazardous machinery until they are reasonably certain that GEODON hiterapy does not affect them adversely. <u>Pringism</u>, one case of pringism was reported in the premarketing database. <u>Body Temperature Regulation</u>; Although not reported with GEODON in premarketing trials, disruption of the body's ability to reduce core body temperature has been attributed to antiboxychotic agents. <u>Pringism</u> one access of pringism was reported in the premarketing database. <u>Body Temperature has been associated with antiboxychotic drug use</u>. Aspiration pneumonia is a common cause of morbidity and mortality in elderly patients, in particular those with advanced Alzheimer's dementia, and GEODON and some and access provision of high-risk patients, should accompany drug therapy, GEODON prescriptions sho

treatment who are at risk of significant electrolyte disturbances should have baseline serum potassium and magnesium measurements. Low serum potassium and magnesium should be repleted before treatment. Patients who are started on diuretics during GEODON threapy need periodic monitoring of serum potassium and magnesium. Discontinue GEODON in patients who are found to have persistent OT₂ measurements >500 msec (see WARNINGS). Drug Interactions: (1) GEODON should not be used with any drug that prolongs the OT interval. (2) Given the primary CNs effects of GEODON, caution should be used when it is taken in combination with other centrally acting drugs. (3) Because of its potential for inducing hypotension, GEODON may enhance the effects of certain antihypertensive agents. (4) GEODON section of the properties of t observed in a 1-month inetary study in the main male, mice, ex-DUON had no effect on serum proised in in fast in a 5-week neither study. The relievance for human risk of the findings of prolactin-mediated endocrine tumors in rodents is unknown (see Hyperprolactinemia). Mutagenesis; There was a reproducible mutagenic response in the Annes assort one strain of S. Pyphirmurium the absence of metabolic activation. Positive results were obtained in both the in vitro mammalian cell gene mutation assay and the in vitro chromosomal aberration assay in human lymphocytes. [Impairment of Fertility, GEODON increased interest of the property o criterion of z 7% of body weight were compared, revealing a statistically significantly greater incidence of weight gain for GEODON patients (10%) vs placebo patients (4%). A median weight gain of 0.5 kg was observed in GEODON patients vo. 0.0 kg in placebo patients. Buring long-term therapy with GEODON, a categorization of patients at baseline on the basis of body mass index (BMI) showed the greatest mean weight gain and the highest incidence of clinically significant weight gain of 7% of body weight) in patients with a low BMI (23) compared to normal (23-77) or overweight (277) patients. There was a mean weight gain of 1.4 kg for patients with a "low" baseline BMI, 0.0 kg for patients with a "normal" BMI, and 1.3 kg mean weight loss for patients with a "BMI FME Granges: GEODON is associated with an increase in the OT_c interval (see WARNINGS). In schizophrenia trials, GEODON was associated with a mean increase in heart rate of 1.4 beats per minute compared to a 0.2 beats per minute decrease among placebo patients. Other Adverse Events Observed During the Premarketing Evaluation of ECDON. Frequent adverse events are those occurring in at least 17/100 patients, infrequent adverse events are those occurring in 17/100 to 17/1000 patients, schizophrenia: Body as a Whole — Frequent abordant apin, flus syndrome, fever, accidental fall, face derma, chilbs, photosensitivity reaction, flank pain, phypothermia, motor vehicle accident. Cardiovascular System — Frequent tachycardia, hyperension, postural hypothersion, infrequent and every as a Whole — Frequent abordant and pain, flus syndrome, fever, accidental fall, face derma, chilbs, pulmonary embodus, cardiomegaly, cerebral infanct, cerebrovascular accident. Cardiovascular System — Frequent tachycardia, hyperension, postural hypothersions, proposition, particularly transpeptidase increased, hypersholesty, fare: thromobophibeitis, pulmorary embodus, cardiomegaly, cerebral infanct, cerebrovascular accident. Geop thrombophibeitis, myocardiis, thrombophibeitis, pulmorary of GEODON was documented in 10 patients. All patients survived without sequelae. In the patient taking the largest confir mg), the only symptoms reported were minimal sedation, slurring of speech, and transitory hypertension (BP 20075)

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Patients who are dissatisfied with their operations feel guilty and angry with themselves or the surgeon for not making their appearance better, or in some cases, for making it worse. Men with BDD who received plastic surgery tend to direct their anger at the surgeon (Phillips, 2001). Nevertheless, even after "unsuccessful" procedures, BDD sufferers continue getting repeated plastic surgeries in pursuit of correcting their perceived ugliness. Ironically, all of those people would be considered of above-average attractiveness.

The average time frame to diagnosis for BDD is 10 to 15 years after onset, due in part to the secretiveness of patients about their preoccupation, but also due to inadequate training and experience in diagnosing BDD for internists, dermatologists, plastic surgeons and even health care professionals (Sarwer et al., 2003). Body dysmorphic disorder is considered a significantly more difficult and complicated disorder than any other anxiety disorder due to the attendant delusion and distortions, which can cause clinical depression accompanied, in more than 80% of the cases, with suicidal ideation (Phillips, 1998; Phillips et al., 2004). In 20% of the cases, completed suicide results in the endangered lives of about 1 million Americans.

The course of the illness starts at around age 18, oftentimes during the first year of college. Onset can be sparked by drastic changes in one's life. Body dysmorphic disorder may be as significant as chronic depression, social phobia or substance abuse, all three of which can be secondary to BDD (Phillips, 2001). Patients with BDD are often misdiagnosed with having substance abuse disorders or depression.

Challenges of Treating an Image Disorder

Current successful treatments for BDD include cognitive-behavioral therapy (CBT) and medication (selective serotonin reuptake inhibitors or clomipramine [Klonopin]) (Patterson et al., 2003; Slaughter and Sun, 1999). Due to their recent development, these treatments are only beginning to show signs of effectiveness. Although some studies indicate different degrees of success of medication treatment for BDD, CBT still should be considered. The greatest challenge is convincing patients their condition is a result of distorted mental imagery. When patients accept a referral to a mental health care professional and receive medication only, 58% of patients show partial or complete symptom resolution (Patterson et al., 2003). It is often the combination of medication and CBT that brings the best results (Neziroglu and Yaryura**Tobias**, 1997

At the beginning of treatment, patients face several significant challenges. First, patients need to be educated about the nature and course of BDD. Second, patients often have difficulty coping with their disease and

BDD paradox. The patient believes that their defect is real and visible. The therapist does not see it and does not agree that the defect exists. Maybe it is real and then maybe it is not. What matters is what patients with BDD "do" with their belief. And what they

In the United States, BDD affects about 2% of the population ... which is equivalent to 5 million Americans and strikes males and females equally.

the fear related to the beliefs and rituals arising from their preoccupation (Phillips, 2001). Self-esteem needs to be addressed due to the fact that BDD sufferers have distorted vision of themselves. Finally, patients often have to deal with family members and health care professionals who lack understanding or knowledge regarding the extent of BDD.

Patients with BDD are a particular challenge to CBT practitioners. Patients suffer from a body image distortion that is internalized through social factors (such as peer pressure and parental critique) and an as yet undefined neurological deficit (Slaughter and Sun, 1999). The internalized perception prompts them to ritualize their behavior by constantly checking the problem part in mirrors and reflective surfaces. It is difficult for a mental health care practitioner to habituate such a patient to the internalized irrational stimuli. Exposure to external referents is usually preferable. Because each patient with BDD is concerned about different body parts, individually tailored treatments are required. Such a task requires highly developed skills and intuition.

'Crooked Mirrors': a New Treatment Method

Recently a new standardized treatment technique has been developed and adopted by the Westwood Institute for Anxiety Disorders. The method involves the use of distorted mirrors to counter the false beliefs and ritualistic obsessions associated with BDD. A set of distorted mirrors made from highly reflective (anodized) aluminum surfaces bent in different directions are practical in clinical settings because they are inexpensive, easily concealed behind curtains and occupy little space.

The theoretical underpinnings of our method, which we call "externalization therapy," are the time-tested ideas of exposure and response prevention that work so well in treating OCD and posttraumatic stress disorder (Foa, 1996; Foa and Kozak, 1986). The typical exposure involves the guided controlled introduction of the internal irrational stimuli—and this is the basic

do is truly fascinating: the internalized (mis)perception prompts these patients to ritualize their behavior by either constantly checking the "problem part" in the mirrors and reflective surfaces or by avoiding mirrors altogether. Either strategy results in major levels of distress and anxiety. It would be counterproductive for a mental health practitioner to habituate such a patient by exposure to the internalized irrational stimuli for then anxiety would only increase further. Exposure to external referents thus becomes the only choice.

By using mirrors that grotesquely distort the patient's "real" image, we reverse the process of habituation. Through exposure to the exaggeratedly distorted image, patients externalize reactions to their own physical deformity. The key is in the gradual initiation of outside processes through which patient gains control of concurrent anxiety. The therapist's role is to teach patients how to control this anxiety when they face their distorted images in the crooked mirrors. Gradually, patients habituate to the anxiety present when they are faced with the "ugly" part of their body for it is not the "ugliness" that is being attacked but the "shame." Exposures are done in a gradual hierarchical order starting with the least difficult one and moving up to the most feared one.

This distorted mirror exposure intervention involves 15, 90-minute therapy sessions. While the small sample size does not allow for any significant generalizations regarding efficacy, five of the seven treated patients with BDD improved. One of the two patients failed to demonstrate treatment gains, whereas the second nonresponder is still receiving services.

A successful case involved a 45-year-old female with BDD who had 17 plastic surgeries prior to participating in this distorted mirror exposure (Gorbis, 2003). She had not responded to several prior treatments for OCD and BDD, including a variety of SSRIs. The patient was demoralized because her condition had persisted for many years, and she met criteria for severe BDD and OCD. She scored 32 on the Yale-Brown Obsessive-Compulsive Scale for Body

Dysmorphic Disorder (BDD-YBOCS).

The patient was afraid of getting old, looking ugly and being imperfect. She established rituals in an effort to protect herself from aging and becoming ugly. She performed 20 to 30 facial wraps a day, washed her face 40 times daily, scrutinized the symmetry of her body parts, put cosmetics on in a particular order, and frequently looked into mirrors seeking reassurance that she was attractive. Her facial rubs and other rituals of perfection required more than eight hours. In one instance she missed her 35th birthday party and appeared at the party location 32 hours later because she was so absorbed in perfecting the look of her face.

During treatment she was exposed to the distorted mirrors, instructed to wear mismatching jewelry and clothes, and put makeup on one eye but not the other. The distorted mirrors exaggerated her perceived imperfections. By the end of treatment, scores on the BDD-YBOCS had decreased from 32 to 10. Five-year follow-up revealed that she had not undergone any further surgeries.

Distorted mirrors were used to assist three additional patients in understanding the exaggerated nature of their perceived imperfections. One patient had undergone two plastic surgeries and, like most others with BDD, was not satisfied with the results. Another patient never had plastic surgery, but did need a number of surgeries to reconstruct body parts that were destroyed and distorted by her obsessive-compulsive behavior (e.g., obsessively working out to the point of injury). The last patient was treated before having plastic surgery. In total, patients exposed to the distorted mirror intervention initially obtained an average score of 33 on the BDD-YBOCS scale and an average score of 7.29 at termination. Follow-up interviews conducted with patients who were successfully treated revealed no posttreatment plastic surgery.

Conclusion

In our social and cultural environment that focuses solely on external beauty without any regard to our self-worth, society solidifies obsession with appearance. The lack of cooperation from plastic surgeons, lack of information available to the general public and lack of knowledge about BDD exhibited by the medical community may contribute to the 20% suicide rate among sufferers of BDD.

It is our goal to make the initial signs of BDD recognizable to the public and make sure that differential diagnoses and referrals are made properly and appropriately by physicians. Statistics show that 5 million Americans are afflicted by BDD, but at this point we can recognize the sufferers only due to the actual manifestation of this disease,

which is plastic surgery. This means that only people with financial means to afford plastic surgery are becoming visible. Although we do not know the exact statistics yet as studies are still in progress, it is our suspicion that there are millions of people who suffer with BDD.

Dr. Gorbis is a founder of the Westwood Institute for Anxiety Disorders in Los Angeles and a member of the scientific advisory board for the Obsessive-Compulsive Foundation.

Ms. Kholodenko has a BA in psychology from the University of California, Los Angeles. She is planning to study anxiety disorders for her graduate career.

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