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Recommended Citation
DOI: https://doi.org/10.29046/JJP.007.2.004
Available at: http://jdc.jefferson.edu/jeffjpsychiatry/vol7/iss2/6
Conversion Hallucinations in a Patient with Pseudohypoparathyroidism

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INTRODUCTION

There are few case reports in the literature which discuss psychiatric disturbances in patients with pseudohypoparathyroidism (PHP) (1,2). PHP is a disease characterized by an inadequate response to parathyroid hormone. Often these patients are obese with a short, stocky build and moon-shaped face. Mental retardation is present in as many as 10% of these patients; a reversible dementia-like syndrome can also occur (2,3). In addition, Capgras’ syndrome has been observed in pseudohypoparathyroid patients (1,2). In these last two reports the authors concluded that the psychosis was probably organically-based. Hay et al (1) noted in their case report that psychotic symptoms were correlated with EEG abnormalities; furthermore, remission of these symptoms was correlated with normalization of the EEG tracing.

Conversion disorders have long been known to medicine (4–6). The revised version of the 3rd Diagnostic and Statistics Manual (7) states that a conversion disorder involves a loss or change in physical functioning not attributable to a known physiological mechanism. The symptoms are not under voluntary control as in malingering. There must be a temporal relationship between the loss of function and some psychological stress. Psychogenic pain shares many of the characteristics of conversion disorder, except that the presenting complaint is not a loss in physical functioning but rather chronic pain (8).

Organic disorders often present with a co-existing conversion disorder (6). There can be a remarkable amount of overlap between the organic disorder and the co-existing conversion reaction; this obscures the clinical presentation and typically accounts for marked exaggeration of symptom complaints and disabilities out of keeping with the observed pathology. For example, it is not uncommon for a patient with a true seizure disorder to also have pseudoseizures (6). It should be remembered that the presence of organic pathology never rules out a coexistent conversion phenomenon since the latter can present in a similar fashion. Often an organic process may be worsened by emotional factors; likewise, organic disorders may serve as a model for the development of conversion reactions.

Conversion hallucinations are a specific type of conversion symptom, most frequently presenting as visual or auditory hallucinations (9–11). Because they
CONVERSION HALLUCINATIONS IN A PATIENT

are not accompanied by any other disturbance of thought content or form, they are referred to as "pseudopsychoses." These hallucinations are perceived by the patient as being real and thus are considered "true" hallucinations. Conversion hallucinations may also exist as "pseudo-hallucinations," in which the patient experiences unreal sensory perceptions but has insight into the fact that the images are not real (11,12).

In this case report, we present a pseudohypoparathyroid patient with depression and hallucinations. In contrast to the above reports, we explain the hallucinations psychodynamically as a conversion "pseudopsychosis" rather than an organically-based psychosis.

CASE REPORT

A 31-year-old white female had been admitted multiple times to the general psychiatry ward at a university hospital. For the past seven years she had had a history of recurrent depression; each episode manifested itself with weight loss, loss of sleep, early morning awakenings, crying spells, and suicidal thinking. She had been treated successfully in the past for depression with either psychotropic drugs or ECT (13).

The patient's medical history was complicated. Since age 15 she had been hospitalized more than fifty times for evaluation or treatment of PHP and/or depression. She was diagnosed with PHP at age 22. She was obese with a short stature, metacarpal and metatarsal hypoplasia, hyperphosphaturia, decreased urinary cAMP and decreased renal phosphate responses to parathormone (14). She had a systemic adenylate cyclase receptor deficiency and later developed other medical problems including pulmonary sarcoidosis (without CNS involvement), hypothyroidism, hyperlipidemia, pancreatitis, amenorrhea, and gastroesophageal reflux with peptic ulcers, all of which were inactive by the time we began to treat her.

Because of her long stays in the hospital, she had major disruptions in her social development. She had become socially isolated. She complained of feeling rejected by her family for being the only sibling who remained unmarried and without children. She had few friends and had no dates with men other than one isolated relationship, a brief affair with a sailor on a cruise. In addition, she lost her job as a nurse's assistant during one of her depressive episodes and was placed on disability because of her medical problems. Psychological testing was performed repeatedly and consistently revealed strong hysterical and passive aggressive tendencies.

On the fourth psychiatric admission prior to the writing of this report she developed auditory hallucinations consisting of birds chirping continuously in both ears. Around the same time, she noticed "bugs" in the periphery of her vision which disappeared whenever she tried to focus on them with her central vision. She obtained relief from these hallucinations only twice. The first remission occurred following a session of hypnosis in which she was rid of the chirping birds for several weeks; a second session of hypnosis performed several months later resulted in a remission of several hours.

The initial hypnotherapy focused on the removal of the birds one by one while she was in a trance. She was given the suggestion that the birds were on the windowsill. It was suggested that they fly away one by one. The auditory hallucinations ceased completely with this treatment. At this point we reasoned that the hallucinations must be conver-
sional since organically-based hallucinations would not be expected to cease with hypno-
therapy.

She was hospitalized three more times for depression. Just prior to the second of
these hospitalizations, she started hearing voices of close acquaintances. Soon after
admission she developed myoclonic-like jerks which were initially diagnosed as true
myoclonus. These did not respond to primidone but cleared spontaneously when ignored
by staff. At the same time, she started seeing “bugs” which would crawl all over her and
make her itch. When these hallucinations were most intense, she would simultaneously
hear male voices exclaiming “you can’t get me now.”

She was able to count the number of “bugs” per square tile on the floor. On two
occasions, her therapist stepped purposely on one of the squares and the patient believed
that several of the “bugs” had been killed. She had no other changes in mental status
during these episodes.

During this hospitalization as well as the five previous admissions to our hospital for
depression and hallucinations, her laboratory values remained within normal limits. This
included serum electrolytes, carbon dioxide, blood urea nitrogen, glucose, creatinine,
calcium and, thyroid and liver function tests. Her EEG was stable, revealing mildly
elevated background activity with some slowing during drowsiness. No epileptiform
activity was seen. Her CT scan remained stable revealing calcification of the basal ganglia.
Brain MRI was repeatedly normal.

During the hospital stay described above, she was maintained on the following
medications: propranolol 40 mgs po bid, levothyroxine 150 mgs po qd, ranitidine 150
mgs po qd, vitamin D 50,000 units qd, and nortripyline 75 mgs po qhs (with therapeutic
blood levels). She had been on the above regimen for six months preceding admission.
Three weeks prior to her hospitalization, she was placed on thiothixene 5 mgs po tid,
which was ineffective in controlling her pseudopsychotic symptoms. Following admission,
she received thiothixene 2 mg po qid for 12 days. This was replaced with an “anti-
psychotic cocktail” four times a day which initially consisted of 30 cc of cola with 2 mgs
thiothixene, 12.5 mgs hydroxyzine, and a mixture of vitamins. Over two days, the
thiothixene was tapered and discontinued in a single-blind manner and she was given the
remaining cocktail components as a prn for hallucinations and agitation. She used this
regularly with an anxiolytic response. The nortriptyline was continued as above.

Daily individual psychotherapy was continued throughout the hospitalization and
was combined with hypnotherapy. Like her previous hypnotherapy, her hypnotherapy at
this time suggested that she attempt to limit her field of vision until the “bugs”
disappeared completely. Her psychotherapy was of an insight oriented focus; it dealt with
her desire to be an independent and mature woman, a desire that clearly was not possible
in her sick role identity. During psychotherapy, she recalled an earlier episode from 1980
at a different hospital when sodium amytal was given for an episode of aphonia (not
previously known to us). This interview had been taped and shown to her. She remem-
bered writhing on the table and talking like a small girl. Her posture, facial expression
and voice resembled that of a little girl. She stated “I don’t want to be a little girl like
that.” She realized that when hallucinating she would react like a little girl; become
nervous and appear helpless. She also realized that during these times she would seek help
from the hospital staff or from her parents when at home. The conflict between the “little
girl” use of sick role behavior to influence others with that of the desired identity of an
adult woman who enjoys male relationships desired roles was utilized effectively in
psychotherapy. She realized the need to give up the “sick little girl” behavior. As she
explored her feelings for the little girl, she was able to grieve and cry about the "sick girl" part of her and at least temporarily, leave it in the past. As she grieved her mood and affect improved. Within three weeks after initiating this psychotherapeutic approach and four weeks after discontinuing thiothixene, her hallucinations ceased. She left the hospital in good spirits, planning new social activities with local psychotherapeutic treatment arranged. Five months later she experienced a relapse of depression. The family refused to participate in family treatment and she was hospitalized again for suicidal thinking and depression.

DISCUSSION

This case report typifies the features of chronic conversion disorders (6) where secondary gain rather than primary gain is the predominant feature. Primary gain refers to the reduction of tension and conflict through neurotic defense mechanisms—for instance the sudden paralysis of one’s right arm in an angry confrontation with one’s mother. Secondary gain refers to unconsciously motivated gain from the external world; this would include monetary compensation or increased attention from others as a result of the symptoms. This patient’s hallucinations served to intensify or expand her established sick role and attracted attention from those around her. She was able to divert most of her family’s energy toward herself when she was “sick.” Through her illness behavior she was the center of attention. While maintaining control over others through dependency demands, she also, over time, alienated both her family and acquaintances, making them resent her. Consequently, intensified illness behavior was needed to rekindle their concern. This was effectively accomplished through her conversional symptoms.

The negative aspect of this “sick role” relationship with others was that she had failed to experience any lasting friendships or any intimate adult relationships. By maintaining the sick role she could gain power and attention from others but at the price of her development into independent adulthood. Her sexual development was clearly halted. As mentioned above her only encounter with the opposite sex was a brief affair with a sailor, over whom she had fantasied and pined since.

Other features seen in chronic conversion disorders which she exhibited include: 1) distant onset of symptoms, 2) presence of multiple conversion symptoms and 3) poor prognosis. With regards to the latter point, she was, in fact, hospitalized again at the time of this writing with a recurrence of her symptoms.

In having an accompanying depressive illness, this patient is also typical of patients with conversion disorders. McKegney (14), Lazare (5), and Ford and Folks (4) state that conversion symptoms often accompany depression, schizophrenia, and/or characterologic disorders. Our patient had depression and although she did not have an actual Axis II diagnosis she exhibited hysterical and passive aggressive character traits.

In conversion hallucinosis, visual and auditory hallucinations are most
prevalent (9–11). Tactile hallucinations are a much less common manifestation of conversion hallucinosis (15). This patient also experienced "true" hallucinations as opposed to "pseudohallucinations" in so far as she perceived the hallucinations as being real.

We do not believe that the hallucinations were part of an organically-based psychotic process. There were no changes in laboratory values or EEG to support an organic explanation of her psychiatric symptoms. Although antipsychotics have been known to contribute to psychosis (17) this was unlikely for three reasons: 1) She was not on antipsychotics the other two times she hallucinated. 2) Her doses of thiothixene were very low and 3) remission was achieved by a behavioral/psychotherapeutic approach with a rapid symptomatic response to therapeutic interventions. Rather, psychodynamic explanations can account for the symptoms. Simply put, she relied on these symptoms to maintain herself in the sick role, she was conflicted over whether to be assertive, independent and sexual in the adult sense, versus maintaining dependence on her family in a more regressive child-like fashion which could be justified by sickness. The latter choice was predominant during the time she had hallucinations. In a regressive sick role she could have others treat her like a child showering her with a great deal of nurturing. This secondary gain kept her enmeshed with her family and unable to break away into independence. Only by working through this in psychotherapy could she gain adulthood.

The atypical nature of her hallucinations and multiplicity of complaints were additional clues to the fact that this phenomenon was a pseudopsychosis. This stands in marked contrast to the other reported cases of PHP, where the symptomatology was felt to be part of an organically based psychotic process.

The patient's case also typifies how chronic medical illness can disrupt psychosocial development. Children and adolescents with chronic medical problems face repeated anxiety over separation issues, depleted physical and psychic energy as well as heightened somatic sensations and preoccupations with both physical defects and vulnerability. Commonly they experience regression, denial, withdrawal, hypochondriasis, conversion and depression. They often develop into adults with dependent, anxious personalities (18–20). This patient had significant disruptions in her emotional development related to her medical problems which resulted in the expression of the above psychopathology.

REFERENCES

CONVERSION HALLUCINATIONS IN A PATIENT