A Case of Pica on a 6-Year-Old Child from Medan

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Abstract

BACKGROUND: In 2013, the feeding and eating disorder category of the Diagnostic and Statistical Manual of Mental Disorders (DSM-5), pica was included as a diagnosis. Eating one or more non-nutritious, non-food substances continuously for at least 1 month is an important characteristic of pica. Children who participate in pica eat products that differ greatly but also include paper, plastic, fabric, dirt, paint, rocks, soap, and cigarette butts. This purpose of this case report is to determine the symptoms and diagnosis of pica in child.

CASE REPORT: A 6-year-old girl was brought to the Psychiatry Clinic of North Sumatera University Hospital with her mother due to her unusual behavior of eating stuff including paper, sawdust, crayon, cloth, and ice cubes. This case was the little girl was 3 years of age. One week earlier, the little girl experienced diarrhea before being admitted to the psychiatry clinic. In this case, the diagnosis of pica used the DSM-5 criteria.

CONCLUSION: We hope that this case report about pica can figure out more about this particularly unusual behavior, which can occur even in normal children in which parental neglect may precipitate its occurrence. As clinicians, we can detect the symptoms and signs of pica in children to prevent further complications.

Introduction

In 2013, in the feeding and eating disorder category of the Diagnostic and Statistical Manual of Mental Disorders, pica was included as a diagnosis. Eating one or more non-nutritious, non-food substances continuously for at least 1 month is an important characteristic of pica. Eating non-nutritious, non-food substances are unacceptable for the developmental stage of the child and not part of a normative feature that is culturally or socially supported. Medical accounts dating back several centuries mimic the modern-day description of pica. Historically, pica has been considered either as an accompaniment to conditions such as pregnancy or developmental disabilities or an indicator of medical problems such as iron deficiency. Pica is not limited to infants or adults with intellectual developmental disabilities, but it is often associated with children with developmental delays. Children who engage in pica eat products that differ greatly but also include paper, plastic, fabric, dirt, paint, rocks, soap, and cigarette butts. This dangerous conduct occurs through gender, age, ethnicity, socioeconomic status, and geographical area, while prevalence increases with the severity of intellectual disability [1], [2].

Pica exists globally. In childhood, adolescence, or adulthood, the onset of pica may occur, while childhood onset is most frequently reported. Pica can occur in children who otherwise normally develop, whereas it seems more likely to appear in adults with the scope of intellectual disability or other psychiatric disorders [1].

Most often found in mentally disabled individuals by professionals working with children. Children with special sensory needs are often seen, such as those seeking oral stimulation, and children on the spectrum of autism may be included. Pica, nevertheless, in normally developing children, it may also occur in regular clinical examination, the likelihood of this activity being present is frequently underestimated. In children aged 18 months-6 years, the incidence is highest. Population studies have shown that 20–30% of children between the ages of 1–6 have experienced pica; with age, the frequency decreases. Pica is more prevalent than is normally understood either because the disorder may be missed by doctors or under-reported by patient/parents [3], [4].

Pica’s etiology is poorly known and likely to be multifactorial. Proposed pathways differ from biological to psychosocial. The relationship between pica and micronutrient deficiencies, including iron, calcium, and zinc, has been well described. Pica has also been linked to deprivation, parental neglect, and malnutrition in infants. In the presence of a coexisting psychiatric illness, it may be present and there may be abundant support that disorders contribute to negative nutritional status, malabsorption, or anemia may be associated with it [5].

Pica may have significant medical effects. Poisoning, abdominal perforation, blockages, or the development of bezoars may have these effects; in some situations, the actions may have fatal effects. Despite this risk, there are few studies investigating its prevalence and incidence [3]. In Germany, a new population-based
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Using a multidisciplinary team strategy, pica is best managed. Physicians, social workers, dieticians, psychologists, and dentists can be included in the team. In pica, pharmacological treatments are infrequently suggested [5]. Intensive staffing and near-continuous behavioral monitoring are standard approaches to pica care to interrupt any attempts at this potentially life-threatening activity proactively [7]. A child with pica condition in an inclusive childcare setting, a function-based evaluation was performed. Results indicate that pica was preserved by access to adult attention [8].

A thorough physical examination can also be undertaken as part of the evaluation. A lot of data about the gross and fine motor skills of an infant, expressive and receptive language skills, and the preferences and engaging style of the parents can be gleaned by observing the child and parent when taking history [9].

Case Report

We are presenting a case of A, a 6-year-old girl, a Muslim, and from mining ethnicity, who was admitted to the psychiatry outpatient clinic of North Sumatera University Hospital in August 2020. Her mother complained of witnessing her daughter eating unusual stuff, such as paper, sawdust, crayon, ice cubes, and clothes. This has been going on since the girl was 3 years old. The girl's mother started to notice this strange behavior when A's little brother was born. Ever since A started to consume strange non-food stuff quietly. A's mother stated that A is very hard to control which often leads the mother into a boiling rage. Yet the girl keeps taking that unusual stuff instead of all her mother's discipline approaches. A week earlier, A had diarrhea after consuming a crayon. Other reported complications of pica include poisoning, intestinal perforation, malnutrition, and iron deficiency [6].

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A thorough physical examination can also be undertaken as part of the evaluation. A lot of data about the gross and fine motor skills of an infant, expressive and receptive language skills, and the preferences and engaging style of the parents can be gleaned by observing the child and parent when taking history [9].

We hope that this case report about pica can figure out more about this particularly unusual behavior which can occur even in normal children in which parental neglect may precipitate the development of this disorder. Consequently, when this disorder is abandoned, it may further harm the patient.

Discussion

Pica can occur at any age. It is more commonly reported in children with developmental disorders, but it is not uncommon to occur in normal children. In this particular case report, parental neglect may contribute to the developmental of pica. Children tend to distract their attention by eating unusual nonnutritive stuff. As for our patient, the physical problem also occurred, as the girl had diarrhea after consuming a crayon. Other reported complications of pica include poisoning, intestinal perforation, malnutrition, and iron deficiency [6].

Treatment strategy for the patient can be carried out in the form of a behavior intervention strategy in which parental attention and support are required every step of the way and ensure that the child's nutritional needs are fulfilled. Pharmacotherapy is uncommon, but the administration of selective serotonin reuptake inhibitor in three teenagers with pica was ever reported [5].

Conclusion

We hope that this case report about pica can figure out more about this particularly unusual behavior which can occur even in normal children in which parental neglect may precipitate the development of this disorder. Consequently, when this disorder is abandoned, it may further harm the patient.

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