Atypical Suicide Attempt with Jugular Vein Laceration During Adolescence: A Case Report

Tentativa de Suicídio Atípica com Laceração da Veia Jugular na Adolescência: A Propósito de um Caso Clínico

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ABSTRACT
Self-harm is a common finding during adolescence and skin-cutting a frequent method of non-suicidal self-injury. However, suicide attempts with severe neck cutting injuries are infrequently reported. Here, we report in detail the case of an adolescent with no prior psychiatry history or self-harm behaviours who had a first suicide attempt with complete external jugular vein laceration. Careful psychiatric evaluation and history reveal exposure to significant adverse childhood experiences.

Our aim with this case report is to illustrate and discuss the influence of trauma during early childhood and dissociative symptomatology in suicidal behaviour during adolescence.

KEYWORDS: Adolescent; Jugular Veins/injuries; Self-Mutilation; Suicide, Attempted
RESUMO
A automutilação é um achado comum durante a adolescência, sendo os cortes da pele um método frequente de autoagressão na ausência de intencionalidade suicida. No entanto, tentativas de suicídio com graves lesões cortantes do pescoço são relatadas com pouca frequência. Aqui, descrevemos em detalhe o caso de um adolescente sem antecedentes psiquiátricos ou comportamentos de automutilação prévios que teve uma primeira tentativa de suicídio com laceração completa da veia jugular externa. Uma avaliação e história psiquiátrica cuidadosa revelam a exposição a experiências adversas significativas na infância. O nosso objetivo neste relato de caso é ilustrar e discutir a influência do trauma durante a infância precoce e a sintomatologia dissociativa no comportamento suicidário na adolescência.

PALAVRAS CHAVE: Adolescente; Automutilação; Tentativa de Suicídio; Veias Jugulares/lesões

INTRODUCTION
Self-harming behaviours, with or without suicidal intention are frequent and a significant clinical issue during adolescence. Recent data shows an overall lifetime prevalence of direct self-harming behaviours up to 39% in adolescents in European countries.¹ Suicide is the second leading cause of death in youth (age 10-24 years) worldwide.²

Although skin cutting is a common method of self-harming within adolescents, it is typically related to non-suicidal self-injury, usually without suicidal intention.

A recent meta-analytic review of worldwide suicide rates in adolescence states that hanging/suffocation is the most common method of suicide across all countries and for both sexes, followed by jumping/lying in front of a moving object or jumping from a height³ and the proportion of 15- to 24-year-olds who die by cutting/piercing is around 0.4%. Thus, 99.6% of youth who die by suicide use methods other than cutting. Those youth who die by cutting generally do so by cutting the carotid artery or jugular vein in the neck, not arms or legs.²

Exposure to adverse childhood experiences (ACEs), such as physical and emotional abuse, is a well-established risk factor for self-harm, however, the psychological and biological processes underlying this relationship are unclear. Recent data indicates that there is a strong association between the total number of ACEs and self-harm, with each additional ACE conferring an additional 11% risk of self-harm at age 16.⁴ Also, childhood maltreatment, specifically pre-adolescent physical abuse is referred to, in the literature, as an independent risk factor for adolescent suicidal behaviour.⁵

To our knowledge, this is the first reported case of attempted suicide with jugular vein and neck cutting in an adolescent in Portugal.

CASE REPORT
We present the clinical case of a 15-year-old male adolescent, with no previous psychiatric or medical history, who presented at our emergency department unit after a violent suicide attempt by a severe neck cutting injury.

On admission, urgent surgical intervention was required due to profound lesions involving 2/3 of his neck circumference, anterior neck muscles, platysma and complete external jugular laceration. Full medical evaluation, including blood sample analysis and drugs search, was completed. All laboratory tests including complete blood count were in normal limits except for haemoglobin levels due to blood loss. Urine and blood analysis were negative for drugs.

After clinical stabilization, the patient’s past personal and family history was obtained by interviewing him and his mother.

His mother confirmed that he did not have any previous suicidal behaviours or any psychiatric medical history. He states that suddenly, during that day, he started to have some negative thoughts regarding hurting himself and wanting to die. He describes “having a strange feeling” and “not wanting to be here”. He went to school and when he got back home, he went through the kitchen for a snack, but when he saw the knife, he rather grabbed it and went to his bedroom. There he made several cuts in his neck before asking for help from his mother, who was sitting in the next room. He refers that he doesn’t know what happened and expresses some perplexity and feeling of depersonalization, without understanding his behaviour. At the moment of admission, he was expressing sincere regret. He states no precipitating factors besides having a query with his recent girlfriend during that day (and the fear of being abandoned by her). He denied that he used any substances. He was not
In this article, we present a rare case of a male adolescent with an episode of extreme self-harm behaviour with suicidal intent, no prior self-harm or suicidal behaviours and severe history of childhood abuse and trauma.

Although cutting is a common form of self-harming behaviour during adolescence, severe cutting associated with potentially lethal injuries is infrequently reported. Literature states that injuries inflicted on the face, eyes, neck in the jugular region, breast or genitals, for instance, may be clinically indicative of greater psychological disturbance than when injuries are inflicted elsewhere.

Common risk factors for suicide attempts include having a previous suicide attempt, being female, having a mood disorder, poor parent-child communication, family pathology or family history of suicidal behaviour. In this case report, none of these frequently referred risk factors was present.

Nevertheless, our patient presented a significant history of physical and emotional abuse, not only during the first few years of his life, when he was living with his father, but also when he had to travel to the care of a stranger to an unknown country to join a mother he had not seen since he was 3 years old. All these experiences could undoubtedly be classified as ACEs and could have provided an important risk factor to self-harm and suicidal behaviours.

Also, the impact of these early separations on his attachment to his caregivers should not be forgotten - joined her mother at age 7, after not seeing her since he was 3 years old, lived with his abusive father until age 7 and never saw him again. Difficulties in attachment are not only highly related to suicidal behaviours, but they impact future patterns of interpersonal relationships.

His attachment difficulties may justify the fear of being abandoned by his girlfriend, which he felt immediately, as a consequence of a brief discussion.

On the other hand, childhood neglect or traumatic events are frequently related to dissociative symptoms, like those presented by our patient. The flattened affect, lack of emotionality in describing the event, feelings of depersonalization, the sense of being detached from himself, high tolerance to pain, and lack of control over his body and actions are symptoms compatible with dissociative disorders.

Physical dissociation, characterized as detachment and alienation from one’s body, can serve as a facilitating precursor to the actual self-harm. Two facets of physical dissociation are insensitivity to bodily cues and tolerance to physical pain which can provide the analgesia necessary for an aggressive and potentially deadly cutting behaviour in an adolescent.

Considering the information discussed above, this case emphasizes the importance of being aware of the role of childhood trauma and dissociative symptoms in the clinical assessment of self-harm and suicidal behaviours in adolescents.
WHAT THIS CASE REPORT ADDS:

- Self-inflicted cuts with large blood vessel laceration are uncommon methods for attempted suicide during adolescence.
- Dissociative symptoms are not uncommon in adolescence and should be assessed in all young people, especially those with a previous history of trauma.
- Dissociative symptoms are related to higher tolerance to physical pain and can be described during severe suicide attempts.
- Inquiry about abusive and traumatic experiences should be included in the routine assessment of adolescents with attempted suicide.

REFERENCES


