



The whistle-smile reflex: a missed sign O reflexo do assobio-sorriso: um sinal esquecido

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Abstract

Keywords

- ► Parkinson Disease
- ► Physical Examination

Resumo

Palavras-chave

- ► Doença de Parkinson
- ► Exame Físico

In this paper, we present a historical review of the whistle-smile reflex, a semiological sign missed in the literature and clinical practice.

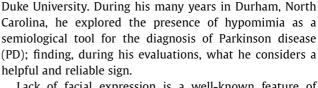
Apresentamos neste artigo uma revisão histórica do reflexo do assovio-sorriso, um sinal semiológico esquecido na literatura e na prática clínica.

INTRODUCTION

In 1943, Frederic Hanes described the whistle-smile reflex, also known as Hanes sign: when asked to whistle, a healthy person does so and then smiles after the unusual physician's request. Otherwise, a patient with parkinsonism performs the whistle but does not smile after whistling due to the facial bradykinetic movement (**-Video 1** and **-Figure 1**).

Video 1

The whistle-smile reflex. The patient and the healthy person gave us written consent to use their images. https://www. arquivosdeneuropsiquiatria.org/wp-content/uploads/2022/08/ANP-2022.0120-Video.mov Online content including video sequences viewable at: https://www.thieme-connect.com/products/ejournals/html/10.1055/s-0042-1758396.



Dr. Hanes was a neurologist and professor of medicine at

Lack of facial expression is a well-known feature of parkinsonian syndrome and an essential clue to diagnosing PD. Although James Parkinson did not mention hypomimia in his seminal work "An Essay on the Shaking Palsy"², it was recognized as an important semiological finding in a patient with PD in early works by authors such as Charcot, Gowers, and Wilson.³ The facial movement impairment may be not only voluntary but also spontaneous and emotional. The involvement of emotional expressions can be noticed with spontaneous smiling, reflected in reduced frequency and opening degree of the mouth.⁴

The whistle-smile reflex, alongside the Rolex sign⁵ and the floating door sign,⁶ lost its role in assessing a parkinsonian patient throughout the years. Although it is an interesting possibility to use the whistle-smile reflex in clinical

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Figure 1 Non-Parkinson disease patient's smiles after whistling (A-B). Parkinson disease patient shows no reaction after doing the same (C–D).

practice, this reflex has not been revised in detail over the years, and we still do not have established its sensitivity and specificity. Therefore, it deserves to be remembered, not only for its historical importance but for its possible semiological value in clinical practice, and further studies are needed for it

to become a routine tool in the assessment of a parkinsonian patient.

Authors' Contributions

MDM: writing, acquisition of data and literature review; GTB: image acquisition; EGCN: image editing, revision of manuscript; CRMR: critical revision of manuscript for intellectual content and study supervision.

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Conflict of Interest

The authors have no conflict of interests to declare.

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