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Name of Journal: World Journal of Clinical Cases

Manuscript NO: 54761

Manuscript Type: REVIEW

Assessment of diaphragmatic function by ultrasonography: Current approach and perspectives

Boussuges A *et al.* Assessment of diaphragmatic function by ultrasonography

Alain Boussuges, Sarah Rives, Julie Finance, Fabienne Brégeon

Abstract

This article reports the various methods used to assess diaphragmatic function by ultrasonography. The excursions of the two hemidiaphragms can be measured using two-dimensional or M-mode ultrasonography, during respiratory maneuvers such as quiet breathing, voluntary sniffing and deep inspiration. On the zone of apposition to the rib cage for both hemidiaphragms, it is possible to measure the thickness on expiration and during deep breathing to assess the percentage of thickening during inspiration. These two approaches make it possible to assess the quality of the

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approaches and parameters for its assessment. Out of these, **ultrasonography** has become a popular option due to its many advantages. In this review, the aim was to provide an extensive summary on our



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