

Assessment of Dyspnoea in COVID 19 Patients Using Modified Borg Scale

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Submitted : 20 Mar 2022 ; Published : 7 Apr 2022

Citation: Flampouraris Vasileios, Kalinoglou Sotiris, Kandreviotou Stella, Raitsiou Bogdan, Kokolaki Maria, Tsiafaki Xanthi. Assessment of Dyspnoea in COVID 19 Patients Using Modified Borg Scale. Adv clin anest med. 2022; 1(2): 1-1.

Background

Dyspnoea (shortness of breath) is a common excruciating symptom. Shortness of breath is a feeling associated with impaired respiratory function. As difficulty breathing, i can not breathe. It occurs in 64 % in Covid 19 patients.

Objective

Our goal is to evaluate dyspnoea using Borg scale that assesses the functional state of respiratory function.

Material and Methods

We assessed (92) Covid 19 patients with a categorical ten-point rating, a corresponding verbal description.(Table 1)

| 1 - 10 Borg Rating of Perceived Exertion Scale | |
|--|------------------------------------|
| 0 | Rest |
| 1 | Really Easy |
| 2 | Easy |
| 3 | Moderate |
| 4 | Sort of Hard |
| 5 | Hard |
| 6 | |
| 7 | Really Hard |
| 8 | |
| 9 | Really, Really, Hard |
| 10 | Maximal: Just like my hardest race |

Patients were aged between 44-78 years old. Fifty of them (50) were obese , body weight > greater than 90 kg with comorbidities (hypertension and diabetes mellitus). The assessment was performed by a specialist anaesthesiologist

(pain clinic) on the Borg scale.

Results

- (12) Covid 19 patients with moderate dyspnoea.
- (30) Covid 19 patients with severe dyspnoea(hard).
- (46) Covid 19 patients very severe dyspnoea (really hard).
- (4)Covid 19 patients maximum intolerable dyspnoea (maximum).

We immediately intubated them. There's not internationally accepted way to assess shortness of breath. Scales are commonly used to assess respiratory difficulty (for example : respiratory distress observation scale).

Conclusions

The Borg scale has been used successfully in Covid 19 patients. Every patient experiences dyspnoea differently depending on the severity of the disease. However, it seems that the assessment of dyspnoea on the Borg scale, taking into account co-factors leads to safer monitoring of severely ill Covid 19 patients.

Multidisciplinary medicine 15 (1),2020.

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