CLINICAL IMPACT OF THE USE OF GLUCOCORTICOIDS FOR THE TREATMENT OF COVID-19 IN INTERMEDIATE RESPIRATORY CARE UNITS

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BACKGROUND AND IMPORTANCE
During the pandemic, patients admitted to intermediate respiratory care units (IRCU) received non-invasive respiratory support and pharmacological treatment, mainly glucocorticoids (GC). However, there are no comparative efficacy studies between the different GCs.

AIM AND OBJECTIVES
To determine the possible influence of the type and dose of GC on the patients evolution with SARS-CoV-2 pneumonia admitted to the IRCU during the first and second wave of the pandemic.

MATERIALS AND METHODS
• Descriptive, observational and retrospective study
• Inclusion criteria: patients with SARS-CoV-2 infection admitted to the IRCU since March until December 2020.
• The data were obtained from the clinical history and the electronic prescription.

RESULTS

<table>
<thead>
<tr>
<th>IMPROVED (n=64)</th>
<th>TRANSFERRED TO ICU (n=19)</th>
<th>DIED (n=38)</th>
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<tbody>
<tr>
<td>Mean prednisone equivalent dose</td>
<td>Mean days in treatment with GC</td>
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<tr>
<td>65.43 mg (SD:88.77)</td>
<td>13.40 days (SD:7.02)</td>
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<td>89.18 mg (SD:71.81)</td>
<td>6.00 days (SD:5.19)</td>
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<td>114.18 mg (SD:90.39)</td>
<td>8.92 days (SD:6.17)</td>
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**89.63% of the patients received treatment with GC**

85% of patients received treatment with GC

**GLUCOCORTICOID PROTOCOLS USED IN IRCU**

- dexamethasone: 13 patients
- dexamethasone+prednisone: 7 patients
- methylprednisolone: 12 patients
- dexamethasone+methylprednisolone: 11 patients
- hydrocortisone+prednisone: 1 patient
- hydrocortisone+methylprednisolone: 1 patient
- prednisone: 1 patient
- dexamethasone+hydrocortisone: 1 patient
- dexamethasone+methylprednisolone+prednisone: 1 patient
- hydrocortisone+methylprednisolone+prednisone: 1 patient

CONCLUSIONS AND RELEVANCE
Most of the patients admitted to the IRCU with coronavirus received GC and the results suggest some improvement in those who received lower doses of GC for longer periods.
The GC combination was associated with a higher rate of improvement, especially with dexamethasone and prednisone. Treatment with methylprednisolone alone had the highest death rate.

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