Webinar: Lessons from the COVID-19 pandemic series
Health Facilities

COVID-19 Safe Hospital Webinar Series
Managing pandemic risks in health facilities

Safe Hospital Webinar 2: Hospitals and national strategic plans for emergencies and disasters from all hazards

Centro Hospitalar Universitario São João

Porto - Portugal

Carlos Alves
Portugal - Oporto - CHUSJ

Population
North  3,6 m
Center  2,3 m
Country  10,2 m
CHUSJ - tertiary referral university hospital center

- São João
- Valongo

Human resources

~ 6,000 professionals

Nursing assistants

- Nurses: 38.42%
- Assistentes Operacionais: 20.62%
- Outros: 4.42%

Doctors

- Pessoal Médico: 15.13%
- Pessoal em formação pré-carreira: 8.86%
- Assistente Técnico: 6.66%
- Pessoal Técnico de Diagnóstico e Terapêutica: 5.90%
Daily new confirmed COVID-19 cases per million people

Shown is the rolling 7-day average. The number of confirmed cases is lower than the number of actual cases; the main reason for that is limited testing.

Source: Johns Hopkins University CSSE COVID-19 Data – Last updated 23 February, 10:03 (London time)
How we coped
First wave

• Facilities – spaces and engineering
• PPE
• Training
• Patient flows
• … and the rest
Summer – in between waves

... planning
## Planning – levels of activation

<table>
<thead>
<tr>
<th>Level 0</th>
<th>Normal activity for autumn and winter, with no cases of COVID-19 in CHUSJ. There is no transmission or infection of SARS-CoV-2 in the region</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 1</td>
<td>Existence of COVID-19 cases hospitalized, but response with usual resources from the SU, SDI (ambulatory, ward and UCI-DI) and Intensive Care. The number of cases and transmission of SARS-CoV-2 infection are low in the region</td>
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<tr>
<td>Level 2</td>
<td>Additional resources needed in the COVID-19 areas (SU, SDI and Intensive Care), but maintenance of the scheduled activity. There is widespread transmission in the community.</td>
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<tr>
<td>Level 3</td>
<td>Need for extraordinary reinforcement in the COVID-19 areas and disruption of programmed activity by less than 20% There is high transmission in the community and / or exponential growth of cases.</td>
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<tr>
<td>Level 4</td>
<td>Disruption of the programmed activity in order to ensure care for seriously ill COVID-19 and non-COVID-19 patients. Large number of hospitalized cases with the potential to burden the NHS.</td>
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## Emergency Department

<table>
<thead>
<tr>
<th></th>
<th>Medical Area 1 (Ex Area Yellow)</th>
<th>Medical Area 2 (Area Atrium)</th>
<th>ADR A (Ex Area Orange)</th>
<th>ADR B (CONTAINER)</th>
<th>ADR C (TENT)</th>
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</thead>
<tbody>
<tr>
<td><strong>Level 1</strong></td>
<td>Medical Patients Orange / UCP</td>
<td>Medical Patients Not Orange</td>
<td>Respiratory Patients</td>
<td>Respiratory Patients Orange/ Yellow</td>
<td>Respiratory Patients Green / Blue</td>
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<tr>
<td><strong>Level 2</strong></td>
<td>Medical Patients Orange / UCP</td>
<td>Medical Patients Not Orange</td>
<td>Respiratory Patients</td>
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<tr>
<td><strong>Level 3 ADR C Day</strong></td>
<td>Medical Patients Orange / UCP</td>
<td>Medical Patients Not Orange</td>
<td>Respiratory Patients</td>
<td>Respiratory Patients Orange/ Yellow</td>
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<tr>
<td><strong>Level 4 ADR C 24 hours</strong></td>
<td>Medical Patients Orange / UCP</td>
<td>Medical Patients Not Orange</td>
<td>Respiratory Patients</td>
<td>Respiratory Patients Orange/ Yellow</td>
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### MÉDICOS

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### MÉDICOS (novas instalações)

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### TOTAL

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Emergency department

Emergency 2020 - adults

Emergency - pediatrics
Acute Care Inpatients – general and ICU
COVID – inpatients: general wards and ICU

COVID - general wards

COVID - ICU

COVID - outcomes

discharged alive: 440; 21%
dead: 67
in hospital: 1 556; 76%
Patients’ needs

Outpatient activity

Outpatient Activity - Appointments

Outpatient (appointments)
✓ Home hospitalization

✓ Providing hospital medicines at the local pharmacy
  ✓ 2019 dec – programme launch
  ✓ 2020 jan – 25 patients (HIV)
  ✓ 2021 feb – 620 patients (HIV, Oncology, MS)

Patients’ needs
Keeping the hospital a safe place

COVID cases diagnosed after hospital admission
Keeping the hospital a safe place

- Reducing people in the building
- Physical distancing
- Universal mask
- Questionnaires and temperature checking
- Testing, testing, testing - isolation