

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

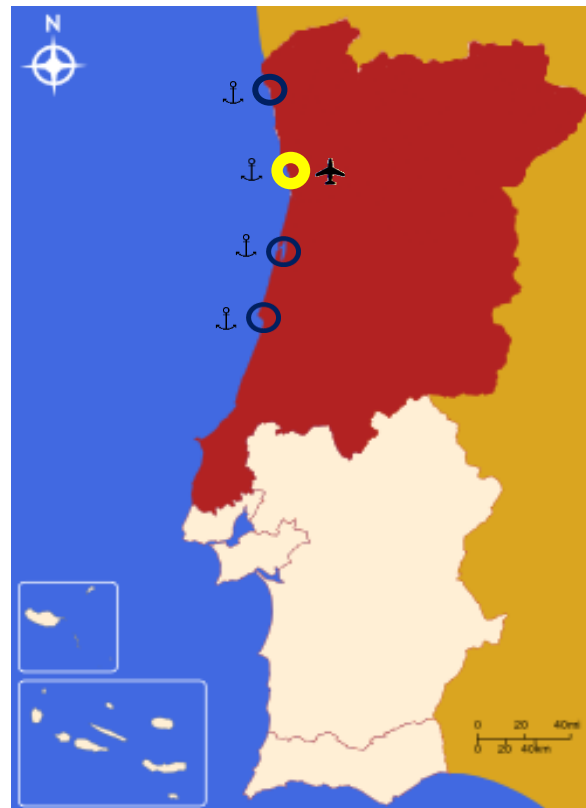
Porto - Portugal

Carlos Alves

Hospital de São João
1959



North	3,6 m
Center	2,3 m
Country	10,2 m



Hospital de São João
2016





Hospital de São João



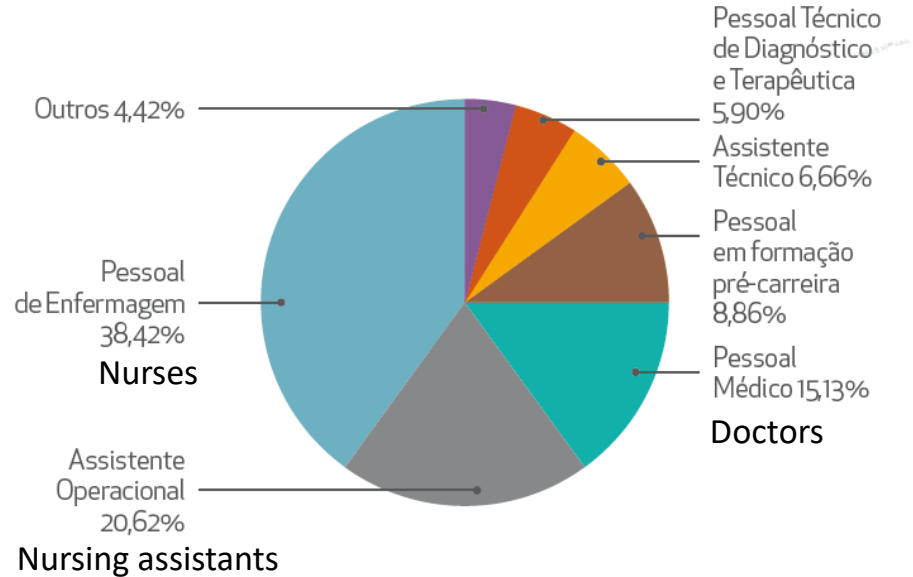
Hospital Nossa Senhora da Conceição de Valongo

CHUSJ - tertiary referral university hospital center

- São João
- Valongo

Human resources

≈ 6.000
professionals





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)

CC BY

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

Level 0	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
Level 1	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
Level 2	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.
Level 3	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.
Level 4	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.



E.g. Emergency Department

	Medical Area 1 (Ex Area Yellow)	Medical Area 2 (Area Atrium)	ADR A (Ex Area Orange)	ADR B (CONTAINER)	ADR C (TENT)
Level 1	Medical Patients Orange / UCP	Medical Patients Not Orange	Respiratory Patients		
Level 2	Medical Patients Orange / UCP	Medical Patients Not Orange	Respiratory Patients Orange/ Yellow	Respiratory Patients Green / Blue	
Level 3 ADR C Day	Medical Patients Orange / UCP	Medical Patients Not Orange	Respiratory Patients Orange	Respiratory Patients Yellow	Respiratory Patients Green / Blue
Level 4 ADR C 24 hours	Medical Patients Orange / UCP	Medical Patients Not Orange	Respiratory Patients Orange	Respiratory Patients Yellow	Respiratory Patients Green / Blue

MÉDICOS	M	T	N	M	T	N	M	T	N	M	T	N
	NÍVEL 1			NÍVEL 2			NÍVEL 3			NÍVEL 4		
ÁREA MÉDICA 1	6	7	6	6	7	6	5	6	5	5	6	5
ÁREA MÉDICA 2	1	2	0	1	2	0	1	1	0	1	1	0
ADR A	4	5	4	4	5	4	5	5	5	5	5	5
ADR B	0	0	0	4	4	4	4	4	4	4	4	4
ADR C	0	0	0	0	0	0	3	3	0	3	3	3
COORDENAÇÃO	1	1	0	1	1	0	1	1	0	1	1	0
TOTAL	12	15	10	16	19	14	19	20	14	19	20	17

MÉDICOS (novas instalações)	M	T	N	M	T	N	M	T	N	M	T	N
	NÍVEL 1			NÍVEL 2			NÍVEL 3			NÍVEL 4		
ÁREA MÉDICA 1	4	5	4	4	5	4	4	5	4	4	5	4
ÁREA MÉDICA 2	5	6	4	5	6	4	4	5	4	4	5	4
ADR A	4	5	4	4	5	4	5	5	5	5	5	5
ADR B	0	0	0	4	4	4	4	4	4	4	4	4
ADR C	0	0	0	0	0	0	3	3	0	3	3	3
COORDENAÇÃO	1	1	0	1	1	0	1	1	0	1	1	0
TOTAL	14	17	12	18	21	16	21	23	17	21	23	20

Nível de activação 1.A

Suspeito COVID-19 COVID-19 Não-COVID-19 Influenza e ECMO não COVID-19

MIS/NC 10

MIS/NC 6

MI6 11
MI6 5

MI6 7 CG 4

UCIDI 4 UCIDI 6

MI1 12

SE

MI1 12

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C
U

Nível de activação 2.B

Suspeito COVID-19 COVID-19 Não-COVID-19 Influenza e ECMO não COVID-19

MIS/NC 10

MIS/NC 6

MI6 11
MI6 5

MI6 6

UCIDI 4 UCIDI 6

MI1 12

SE

MI1 12

Nível de activação 3.B

Suspeito COVID-19 COVID-19 Não-COVID-19 Influenza e ECMO não COVID-19

MIS/NC 10

MIS/NC 6

CCT10

MI6 11
MI6 5

MI6 6

UCIDI 4 UCIDI 6

MI1 12

SE

MI1 12

Nível de activação 4

Suspeito COVID-19 COVID-19 Não-COVID-19 Influenza e ECMO não COVID-19

MIS/NC 10

MIS/NC 6

CCT10

MI6 11
MI6 4

MI6 6 CG 3 CG 9

UCIDI 4 UCIDI 6

MI1 12

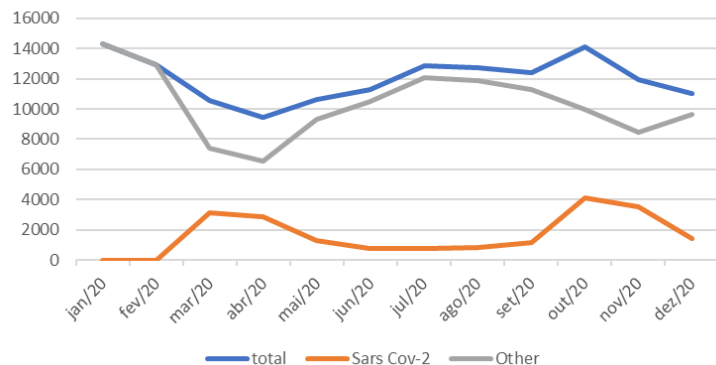
SE

MI1 12

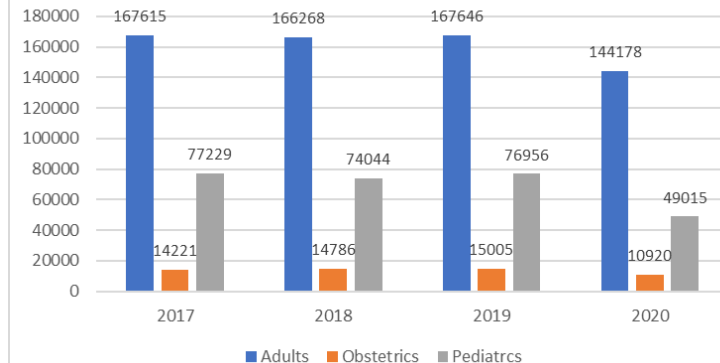
Emergency department



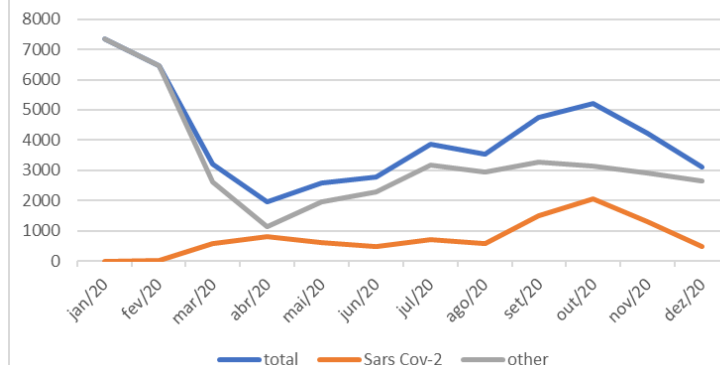
Emergency 2020 -adults



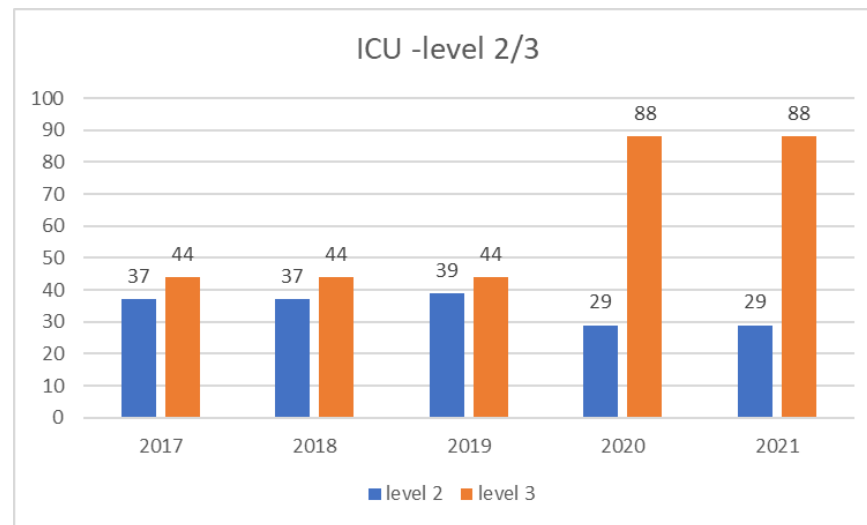
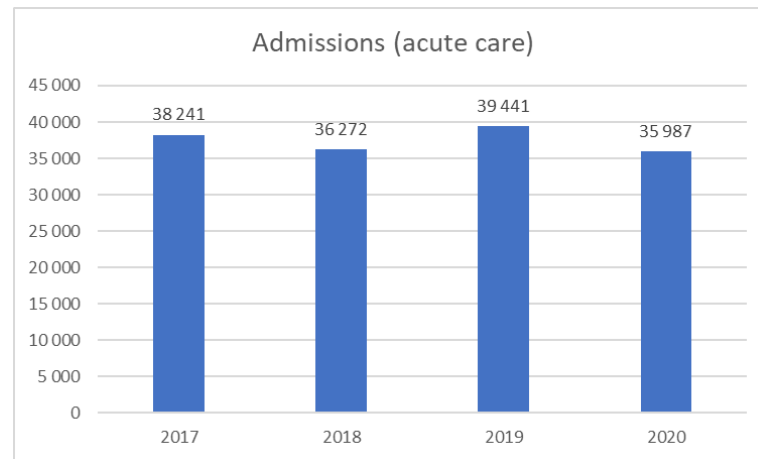
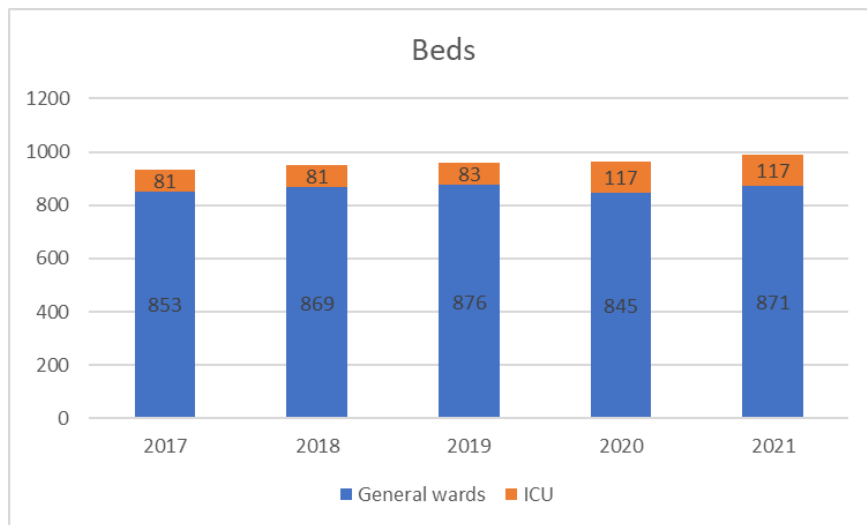
Emergency



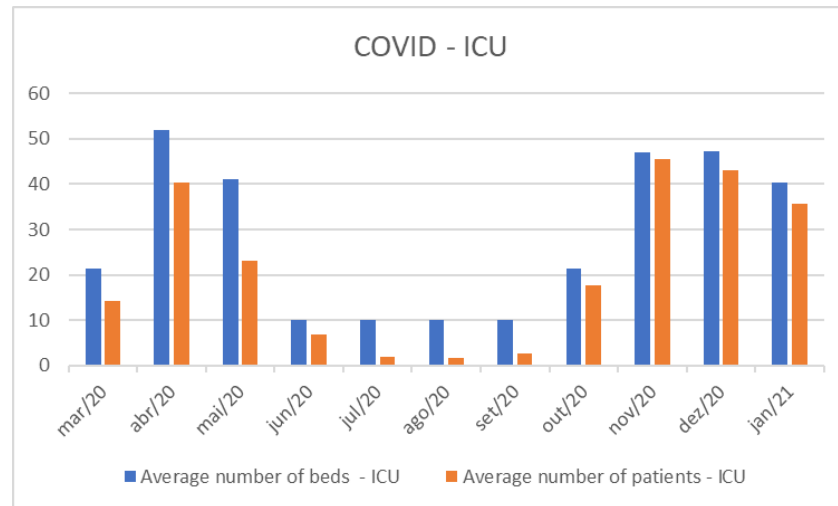
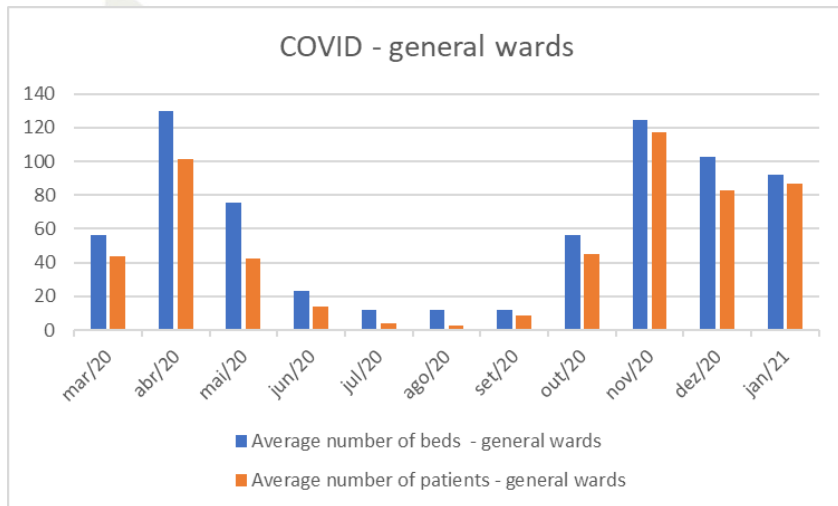
Emergency -pediatrics



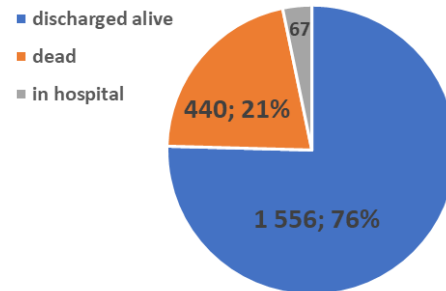
Acute Care Inpatients – general and ICU



COVID – inpatients: general wards and ICU

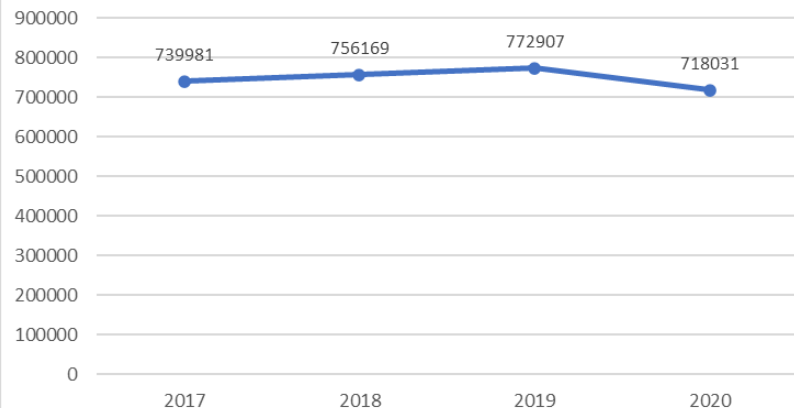


COVID -outcomes

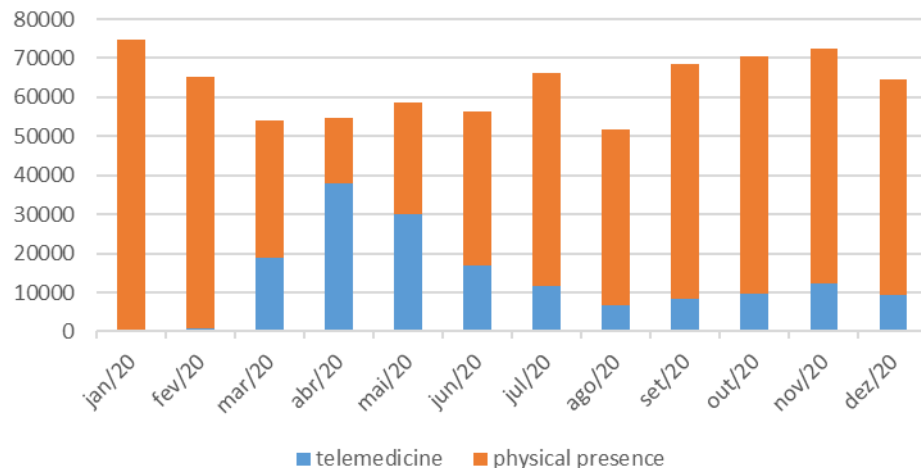


Outpatient activity

Outpatient (appointments)



Outpatient Activity - Appointments



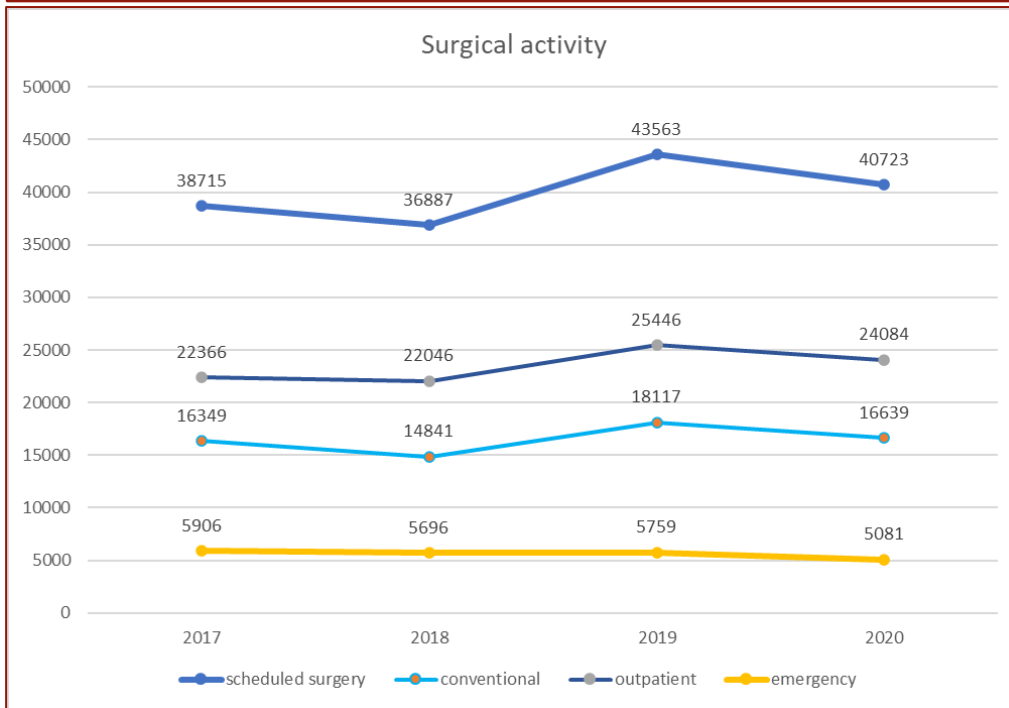
Patients' needs

✓ Home hospitalization

SÃO JOÃO
FARMA
2CARE

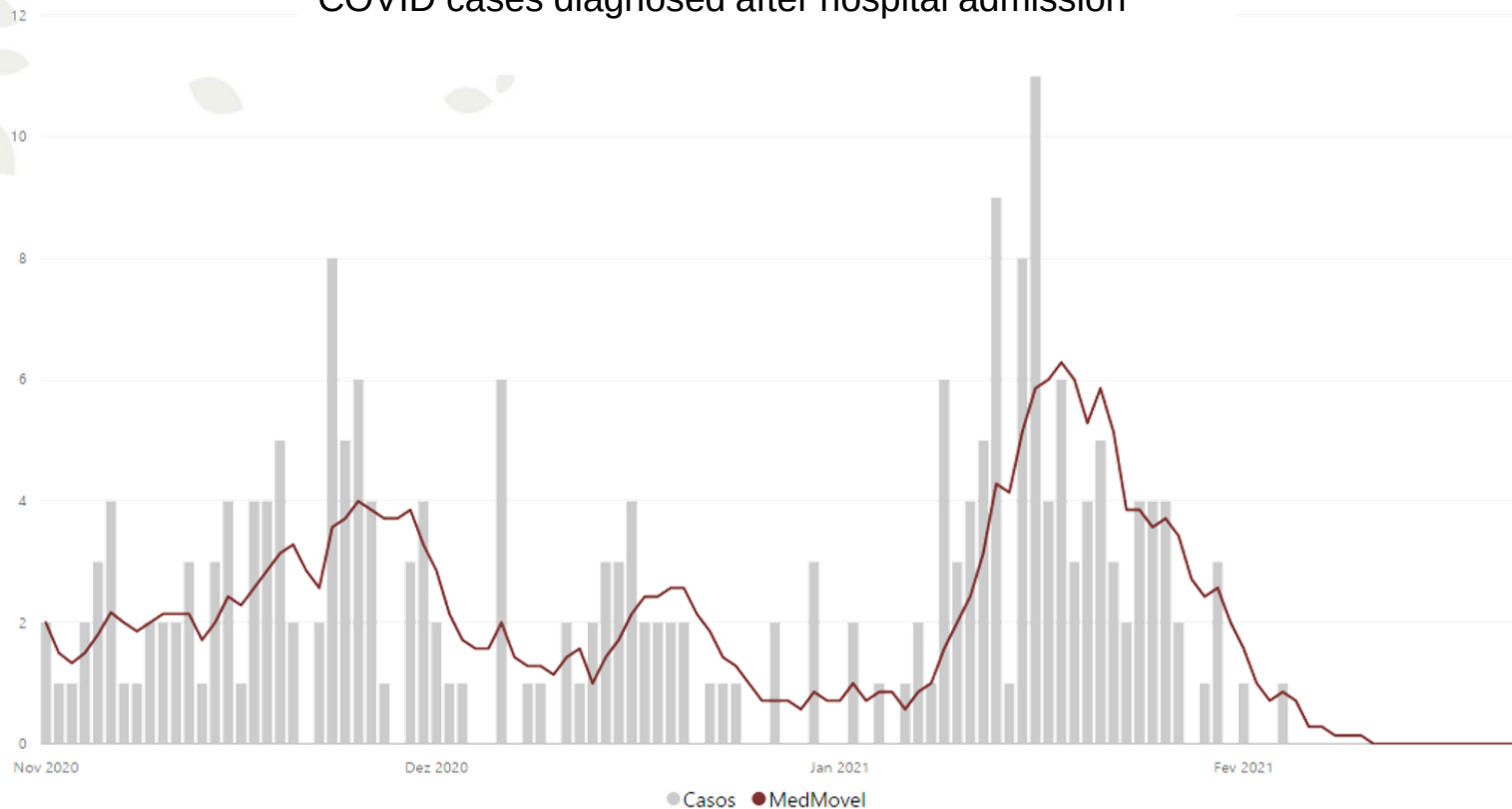
- ✓ Providing hospital medicines at the local pharmacy
- ✓ 2019 dec – programme launch
- ✓ 2020 jan – 25 patients (HIV)
- ✓ 2021 feb – 620 patients (HIV, Oncology, MS)

Surgical activity



➤ 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**



