



SJD **Sant Joan de Déu**
Barcelona · Children's Hospital

Open Data Workshop

27/05/2025- Hernán Lew

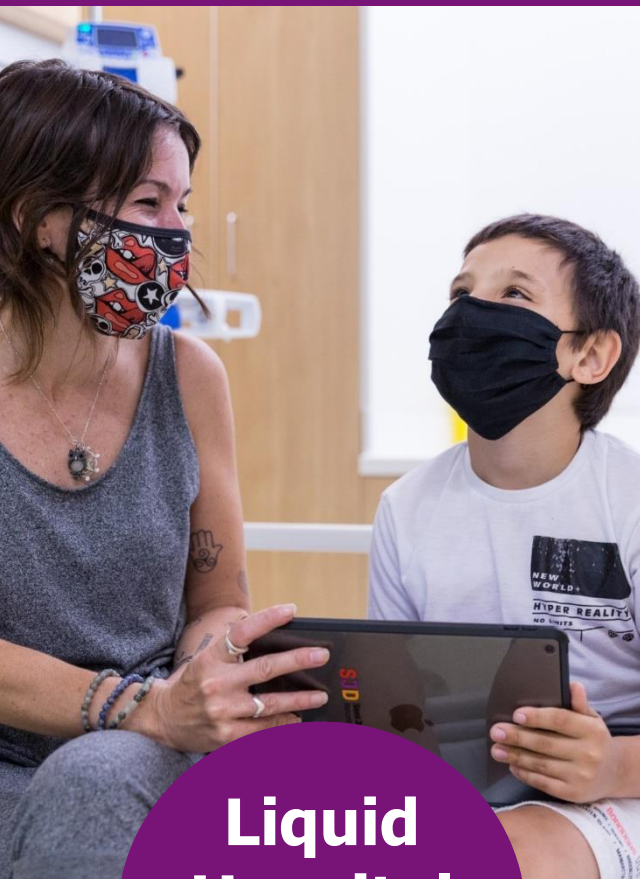


About us



- **Maternal and Children Hospital**
- **Affiliated University of Barcelona**
- **Private non-profit**
- **Part of the public health system network**

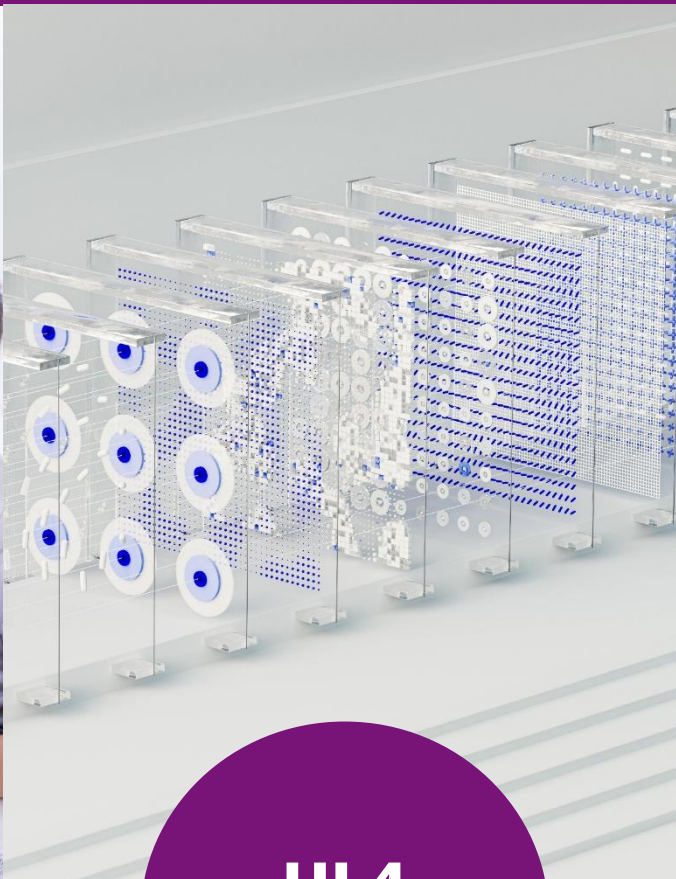
Digital Strategy



**Liquid
Hospital**

Virtual
Participation

2009



HL4
Data

2014



Cortex
Data
Intelligence

2019



**Clinical
Command
Center**
Predictive
Monitoring

2024

Liquid Hospital

Human
Data Driven



Data evolution journey

Past

Reactive
Model

Data analysis

Let's prepare the organization
once it has already happened



Present



Future

Pro
Active
Model

Algorithmic

Let's prepare the organization
before it happens



Clinical Command Center

1

**Home care.
Real time
monitoring**

2

**Prediction
&
Prevention**

3

**Strategy
and data
government**

4

**Innovative
solutions**

Clinical Command Center



Actions



People

Tiles



Double Approach

Clinical Flow

HOSPITALITZACIÓ INFANTIL

11:50

UNITAT

LLITS

TOTAL

129

INF 05

13

INF 06

24

INF 07

24

INF 08

0

INF 09

24

INF 10

28

MAT 05

16

LLITS DISPONIBLES

BUITS

NETEJA

PREALTA

9

2

5

LLITS NO DISPONIBLES

OCUPAT

BLOQ.

RESERV.

103

2

8

DETALL RESERVES

BUITS

NETEJA

PREALTA

3

1

4

CENS PREVIST DEMÀ A LES 7:00h

DIFERÈNCIA VS. LLITS ACTUALS

103

24

SOL·LICITUDS INGRÉS

HDD

CEX

EXT

0

0

0

LLITS EN NETEJA (en minuts)

IINF10-170

59

IINF07-762

29

IINF10-156

8

HOSPITALITZACIÓ PLANTA 7

Darrera actualització: 11:07

LLITS ACTIUS

23

LLITS OCUPATS

22

OCUPACIÓ

96%

OCUPACIÓ PER SERVEI

15

1

6

PED

NRL

PSQ

PACIENTS PED A HOSPITALITZACIÓ

59

AÏLLAMENTS

10

5

5

C

G+C

Aill. episodi anterior

AÏLLAMENTS ANTERIORS

PACIENTS AMB DISPOSIT..

11

ULLERES NASALS

2

MASC. VENTURI

0

OAF

1

VMNI

0

TRAQUEO VMI

0

TRAQUEO

2

VVP

8

CVC

0

SNG

1

STP

0

BG

2

PEG

0

DRENAT GE

0

INFORMES ALTA INFERMERIA PENDENTS

2

LLit 758 1905826 0h pendent

LLit 769 1981537 24h pendent

PROVES PENDENTS

DXI

2

LAB

0

DXI 776 1605702 ECOGRAFIES 15 02/05 04:24

INTERCONSULTES PENDENTS

10

LLit 775 1635703 C2P2, ROT

LLit 776 1605702 ROT

LLit 766 1974562 CAR, NML, NNUDI, NRL, ROT

LLit 779 1958236 CAR

INGRESSOS PENDENTS

0

URGÈNCIES INFANTS

PACIENTS A URGÈNCIES

49

PACIENTS PER ZONA

URG

49

PACIENTS PER SERVEI

CIRURG

PEDURG

PEDURGIN

PSURG

4

43

1

BOXS OCUPATS

21

INGRESSATS A URGÈNCIES

0

PENDENTS TRIAR

0

PENDENTS ATENDRE

24

EN ATENCIÓ

25

READY AMB LLIT ASSIGNAT

0

READY SENSE LLIT ASSIGNAT

0

NOT READY

0

PENDENTS ATENDRE PER NIVELL DE TRIATGE

Nivell de Triatge	Pacients
NIV 2	0
NIV 3	2
NIV 4	8
NIV 5	14

EN ATENCIÓ PER NIVELL DE TRIATGE

Nivell de Triatge	Pacients
NIV 2	3
NIV 3	9
NIV 4	4
NIV 5	8

PACIENTS PENDENTS D'INGRÉS

Nivell de Triatge	Pacients
NIV 2	0
NIV 3	0
NIV 4	0
NIV 5	0

INTENSITAT CURES INFERMERIA INFANTIL 7

LLITS ACTIUS

24

LLITS DISPONIBLES

24

TORN

08 - 15

OCUPACIÓ

4

22

14

PERSONAL

4 - INF.

2 - TCAE

15 - 22

4

21

14

3 - INF.

2 - TCAE

22 - 08

3

1

14

3 - INF.

1 - TCAE

Intensitat cures elevada

Alt mobilitzat

Intensitat cures mitjana

Alt en neteja

Intensitat cures baixa

Alt bloquejat

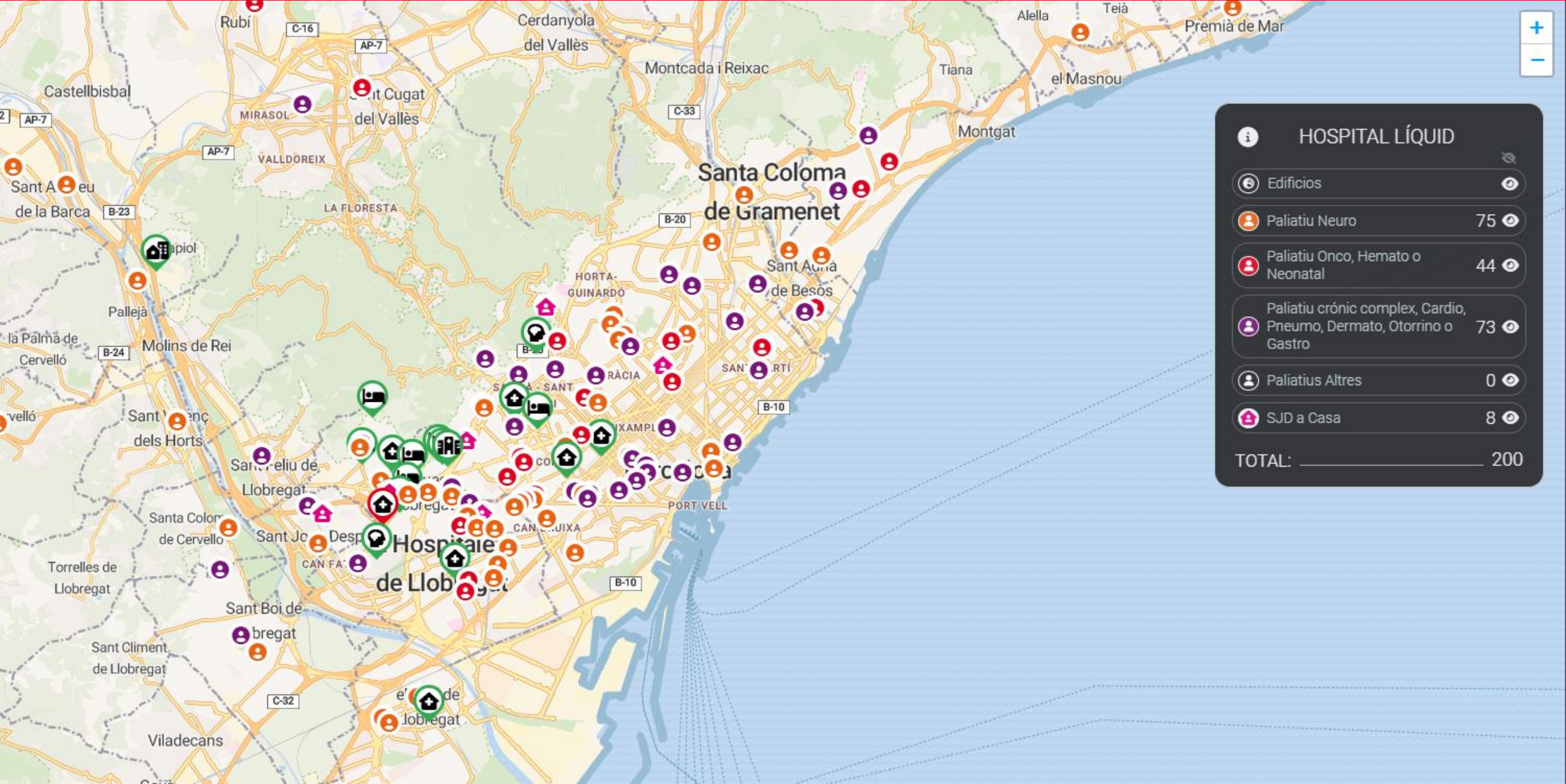
LLIT	NHC	CURES	SERVEI	A/P	RESV	T RESV	LLIT	NHC	CURES	SERVEI	A/P	RESV	T RESV
751	1937267 J.F.G		PED				767	1179537 A.R.F		PSQ			
752	19859074 M.F.G		PED				769	1981537 D.V.N		PED			
753	1910054 H.C.N		PED				772	1967872 A.M.G		NRL			
755	1981461 E.M.M		PED				774	1969420 T.A.		PED			
757	1981486 L.N.M		PED				775	1635703 M.P.P		PED			
758	1905826 J.L.S		PED				776	1605702 G.S.K		PED			
759	1950326 M.P.A		PED				777						
760	1114575 E.L.K		PED				779	1958236 H.M.		PED			
762	1940253 M.C.M		PED	A 10:50			780						
764	1979299 M.A.N		PSQ				781	1974547 N.D.M		PSQ			
765	1746849 A.M.D		PSQ				782	1969974 A.R.R		PSQ			
766	1974562 R.A.		PED				783	1794535 J.P.Q		PSQ			

Darrera actualització: 11:04

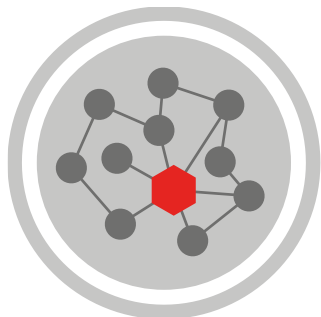
Pain Map

MAPA DEL DOLOR								11:52

Chronicity Patients - Home Hospitalisation



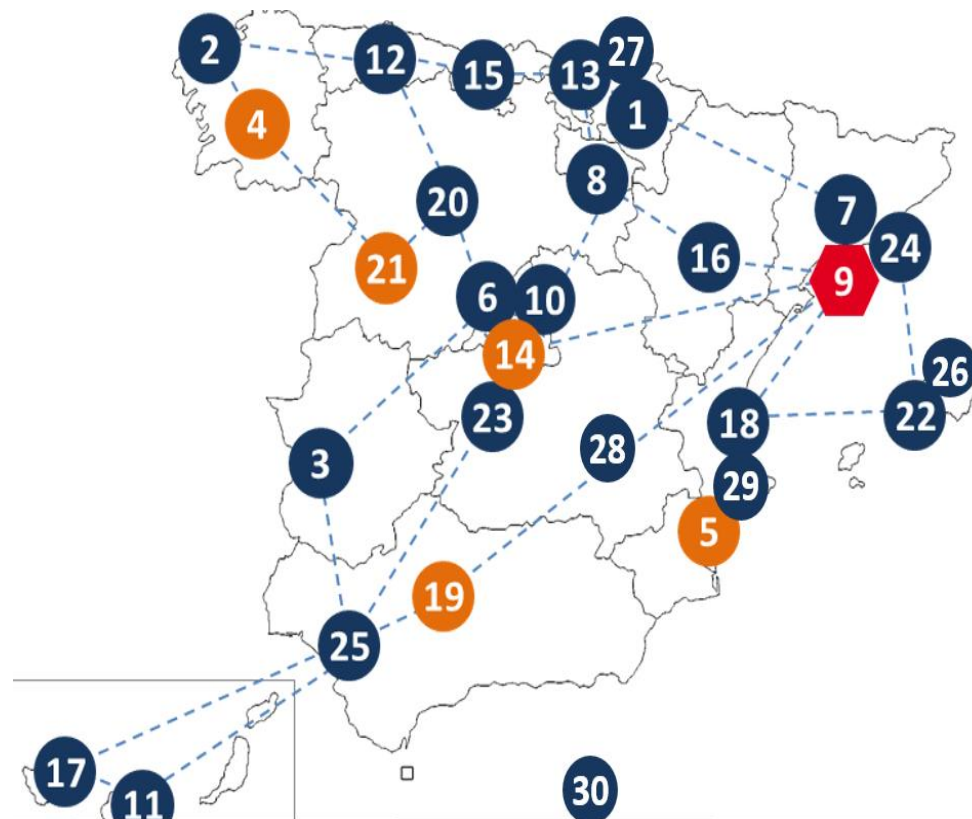
Unicas Network



Únicas

Raras pero no invisibles

- UNICAS creates alliances to improve the health system's response to complex rare diseases.
- Focuses on supporting patients with rare diseases throughout their care process.
- Implements a personalized, network-based care model that moves data, not patients.
- Aims to ensure equal opportunities for care and treatment for all children with rare diseases, prioritizes moving data instead of patients

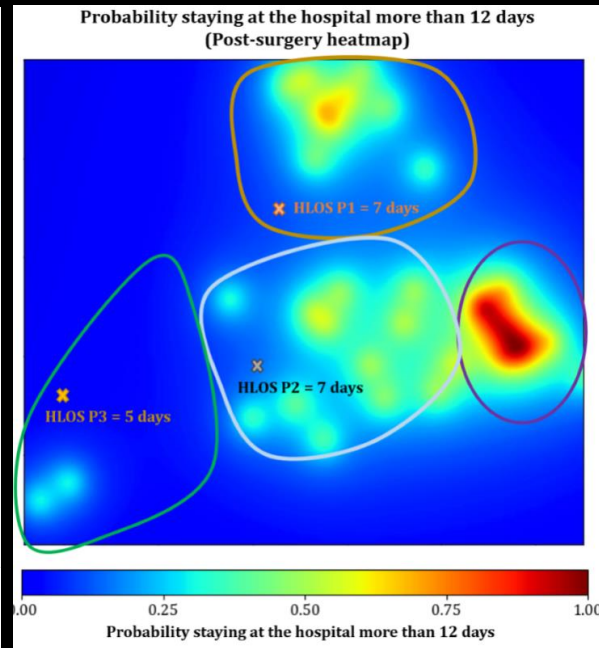
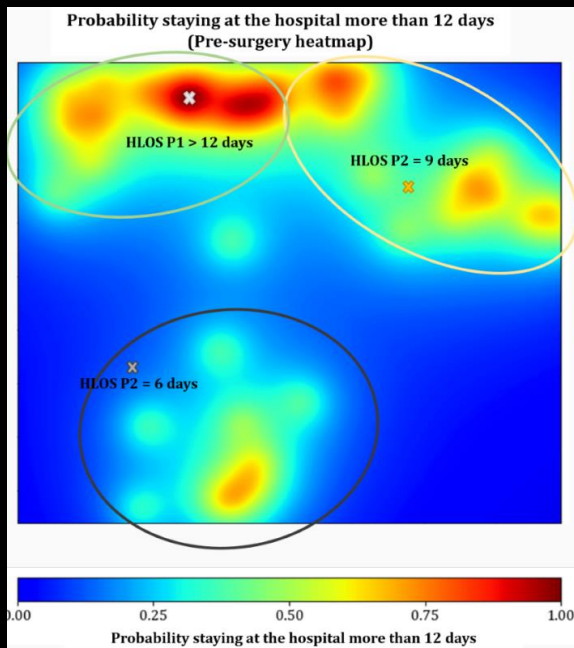
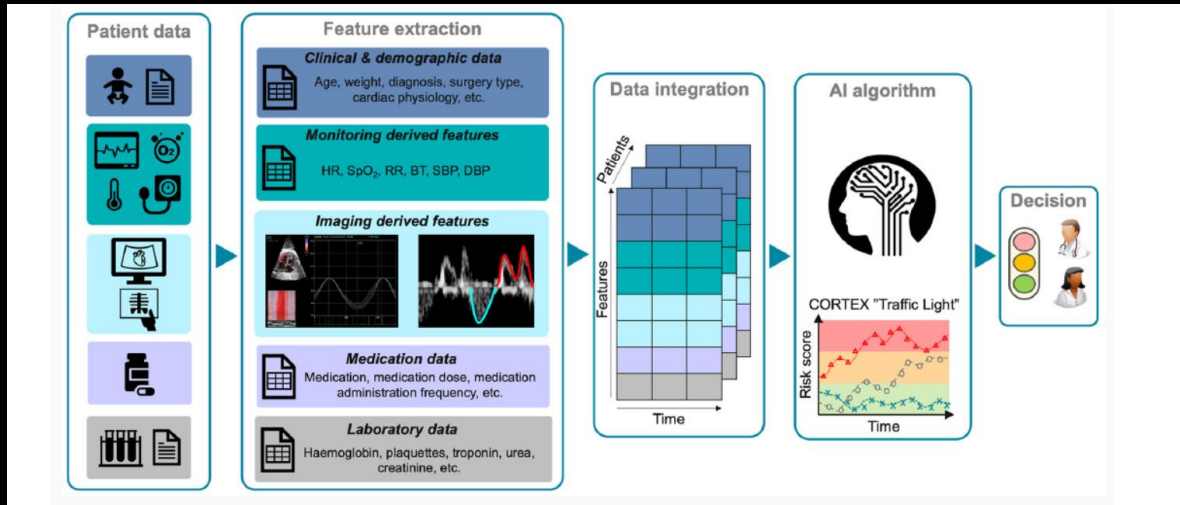


Bronchiolitis and sepsis algorithm

UCI SCORES



eCare Cardio Algorithm Development



LOCALITZACIÓ

TOTAL PACIENTS

17

PATIENT FLOW ÀREA DEL COR

PLANTA
5

965
966
967
969
972

UCI
7

S17 U21
U03 U23
U08
U09
U13

NOUNATS
2

NN11
NN16

BQ
2

H15
Tràns. HEMO

LCS/ALTRES
1

659

INTERVENCIIONS

NHC

DIAGNÒSTIC

PROCEDIMENT

HORA

UBI ANT.

UBI ACT.

TEMPS

PROX. UBI

CAT

1196089

Altres tipus de malformació congènita de grans venes

CATET. CAR. TERAPÈUTIC - EMBOLITZACIÓ PERCUTÀNIA DE VENA INTRATORÀICA

8:40 - H15

ARCOIRIS

BQ (H15)

3h 19m

976 - LLI

CAT

1249431

Malformació congènita de cor no especificada

CATET. CAR. DIAGNÒSTIC - CATETERISME CARDÍAC DRET I ESQUERRE

10:30 - H15

ARCOIRIS

BQ (Tràns. HEMO)

2h 13m

975 - LLI

CAT

PACIENTS EN ESPERA DE TRASLLAT

PACIENT

SERVEI

LLIT ARA

LLIT DESTI.

1196089

CAR

BQ

976 - LLI

0.3h

1937997

CCV

S17

981 - OCU

0.7h

1.9h

LIT DISPONIBLE

LIT NO DISPONIBLE

CAP LLIT ASSIGNAT

SENSE ELECTRO

4 / 9

965
NN16
S17
U09

9 / 17

659
967
H15
NN16
U23

U08
U09
U13
U23

Tràns. HEMO

ICs PENDENTS

4

ALTRES

7

<3h

3h-1d

>1d

MAPA DE LLITS DE LA PLANTA 9 AMB MONITORITZACIÓ

965
CAR
1726812

966
CCV
1953017

967
CAR
1951637

969
CCV
1943159

972
CCV
1941783

975
CAR
1249431

976
CAR
1196089

977
NEF
1957775

979
NEF
1650334

981
CIR
1061585

983
NRL
1905826

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SJD **Sant Joan de Déu**
Barcelona · Children's Hospital

Thank you!

DO Impact