



MEDECINS SANS FRONTIERES
DOCTORS WITHOUT BORDERS

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**ELECTRONIC MEDICAL RECORDS FOR
EMERGENCIES / PROJECT BUENDIA**

ID N°

ADMISSION

Date / / Hour :

Admission type	Admission criteria
----------------	--------------------

- | | |
|--|--|
| <input type="checkbox"/> New admission | <input type="checkbox"/> Weight/height |
| <input type="checkbox"/> Re-admission | <input type="checkbox"/> BMI |
| <input type="checkbox"/> Relapse | <input type="checkbox"/> MUAC |
| | <input type="checkbox"/> Oedema |
| Old ID number | <input type="checkbox"/> Breastfeeding |
| <div style="border: 1px solid black; width: 100px; height: 20px;"></div> | <input type="checkbox"/> Moderate + sick |
| | <input type="checkbox"/> Other |

REFERRAL

Date: / /

From ☐ SFC ☐ Outreach
☐ Hospital ☐ Spontaneous
☐ OPD ☐ Other

DISCHARGE

Date ____/____/____

☐ Follow upDead ☐ Cause☐ CauseTransferred ☐ To _____Not resp. ☐ Cause

Immunization status

Card		Immunization dates			
<input type="checkbox"/> Yes <input type="checkbox"/> No	Birth	1	2	3	4
BCG					

Step	
Goal	
GTP	
Main	
Prior	
Yahr	
H Ind	
Other	

Given at admission

Vitamin A	<input type="checkbox"/>
Albendazole / mebendazole	<input type="checkbox"/>
Folic acid	<input type="checkbox"/>
Antibiotic (see other side)	<input type="checkbox"/>
Other	<input type="checkbox"/>

DATE _____

	101	102	103	104	105
Height	161	150	150	149	149
Weight	53	54	56	53	55
Weight change (+ / 0 / -)					
W.M. %					
Target weight					
MLAC (mm)	94	96	102	94	98
Oedema (0, +, ++, +++)					
RTUP (number/day)	14	14	14	14	14

WEIGHT GRAPH

2
6.1
6
5.1
5
4.1
4

Each small division = 100 g. each large division = 0.5 kg

ant

photos: MSF

Date _____

	06/04/15	23/4	26/4	7/10	14/10
Temperature	37.2	36	36	36	36
Respiratory rate (br/min)	22	28	36	26	39
Level of consciousness	-	G	ASh	OK	28
Cough	-	N	+	-	-
Diarrhoea (nb/day) (III)	1/1	N	N	+	+
Vomiting	-	N	N	-	-
Dehydration (0 to +++)	-	N	+	-	-
Anaemia (0 to +++)	-	N	N	-	-
Oedema	-	N	N	-	-
Appetite	-	++	B	++	+
Other	-	-	-	-	-
Malaria rapid test	(-)	-	-	(-)	(-)

Medical treatment

Amox 200m	1x2	/ ASA 025 7/10
Vet A 1000	000 4	
Amox 100m	100m	
Alben 100m	100m	
ACT 1-100m	100m	
100m 100m	100m	23/10
100m 100m	100m	23/10
100m 100m	100m	20 kg

omen, lymph nodes, mouth, eyes, neck, and rapid tests: Hb, TB, HIV.

**WORKS EVERYWHERE
EXTREMELY ADAPTABLE**

Photos: MSF

+

ABC/570: Reynaud Leo

Battements de ailes du nez

UnknownNoYes

Tirage sous/inter/sus costale

UnknownNoYes

Circulation

Frequence cardiaque (bpm)

Mains froide

UnknownNoYes

Remplissage capillaire (sec)

<3>3

Pouls faible

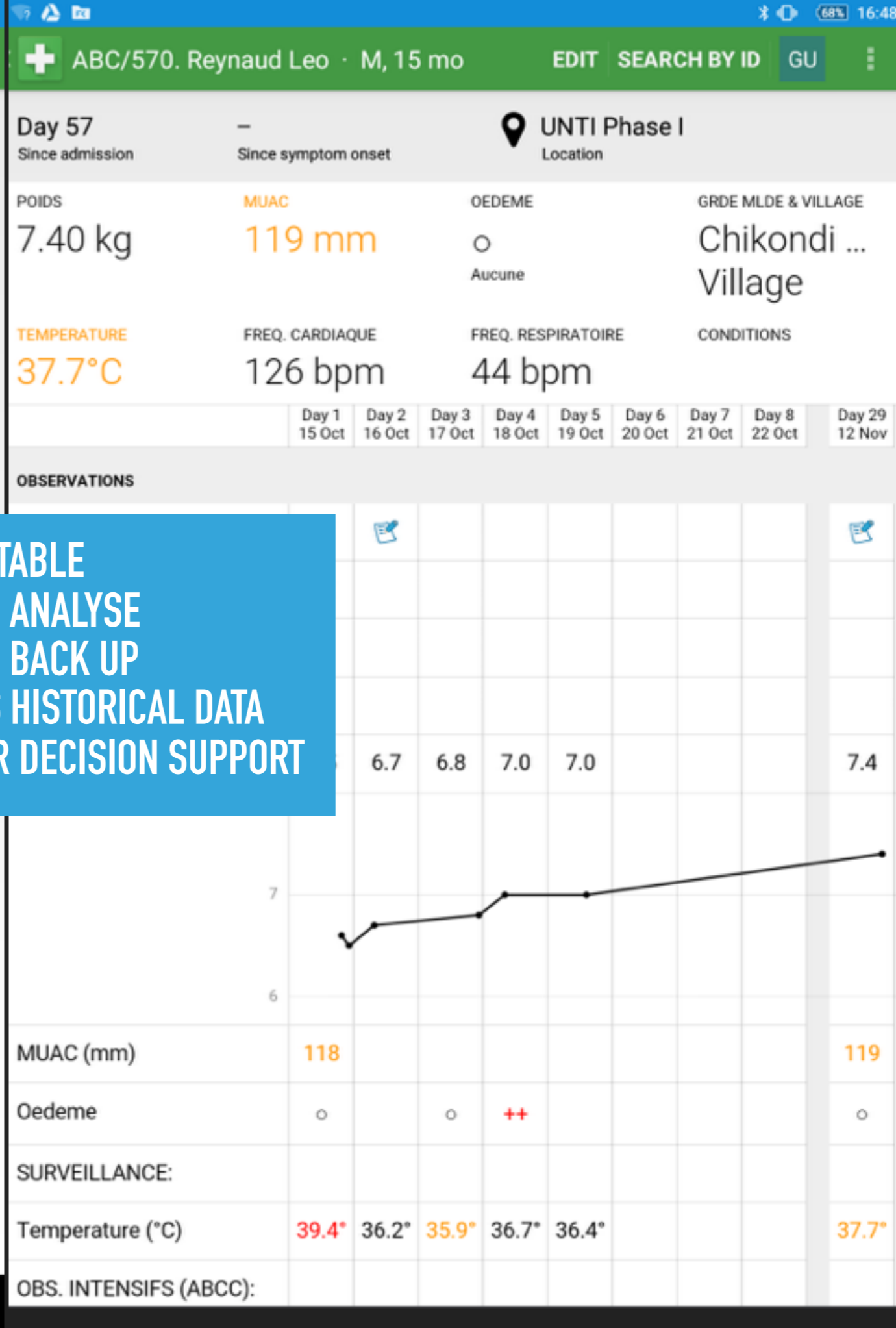
UnknownNoYes

×

Discard

✓

Save



PORTABLE

EASY TO ANALYSE

EASY TO BACK UP

EASY TO ACCESS HISTORICAL DATA

BETTER DESIGN FOR DECISION SUPPORT

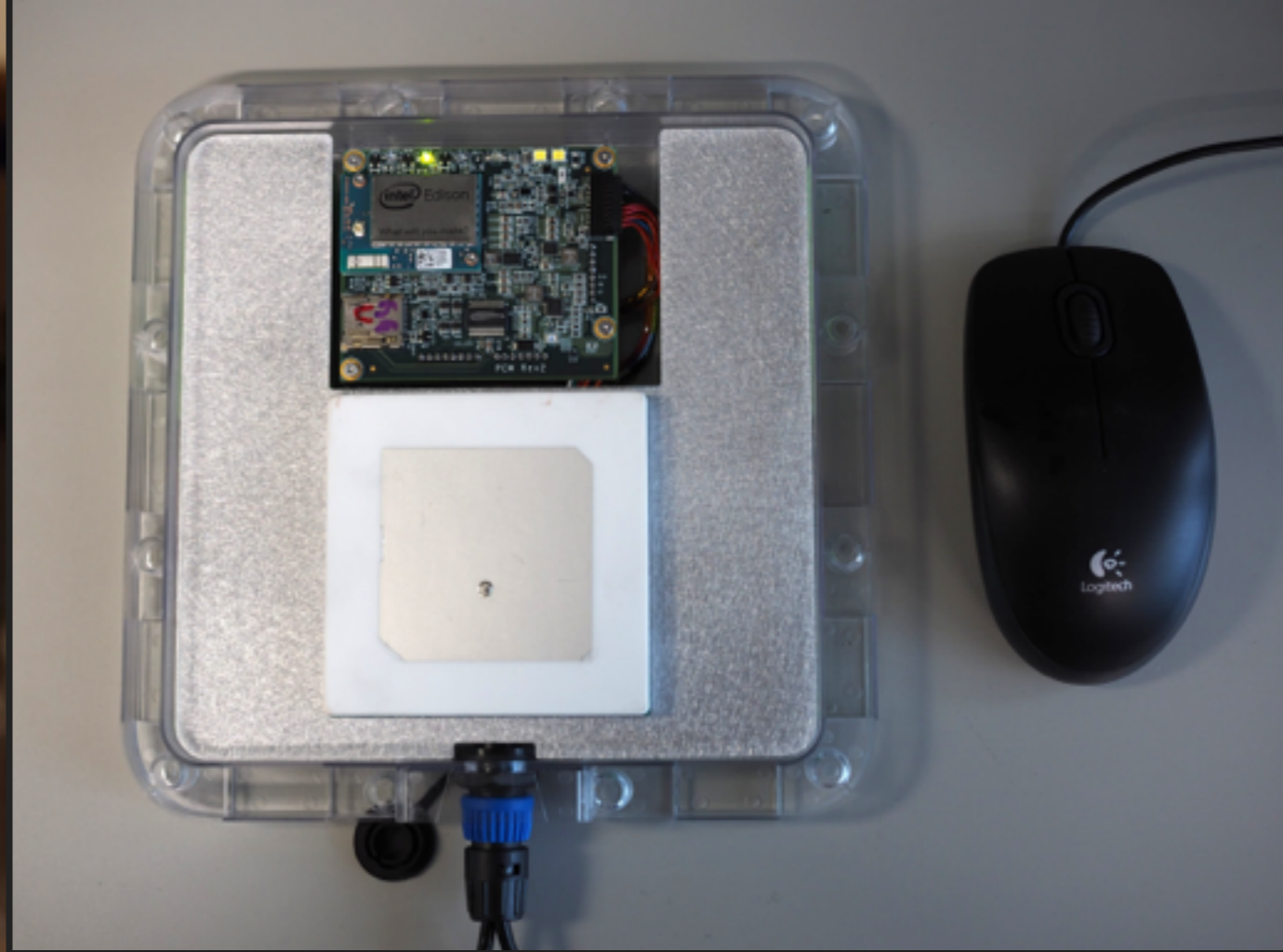
LIVE DEMO



Photo: MSF

Ebola Crisis

HISTORY





Nutrition Programs

CURRENT FOCUS



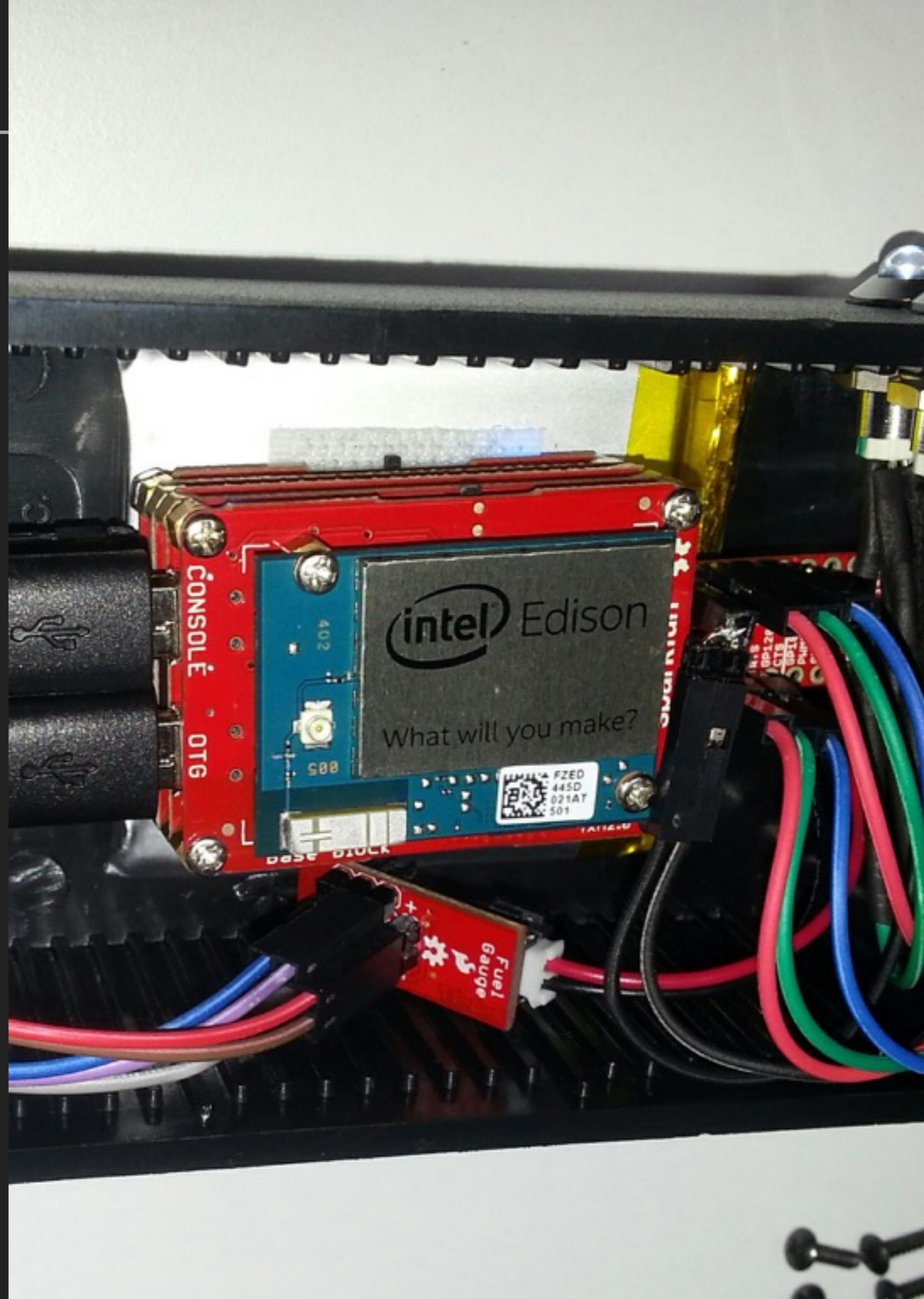


Photo: MSF

KEY GOALS

RESILIENCE

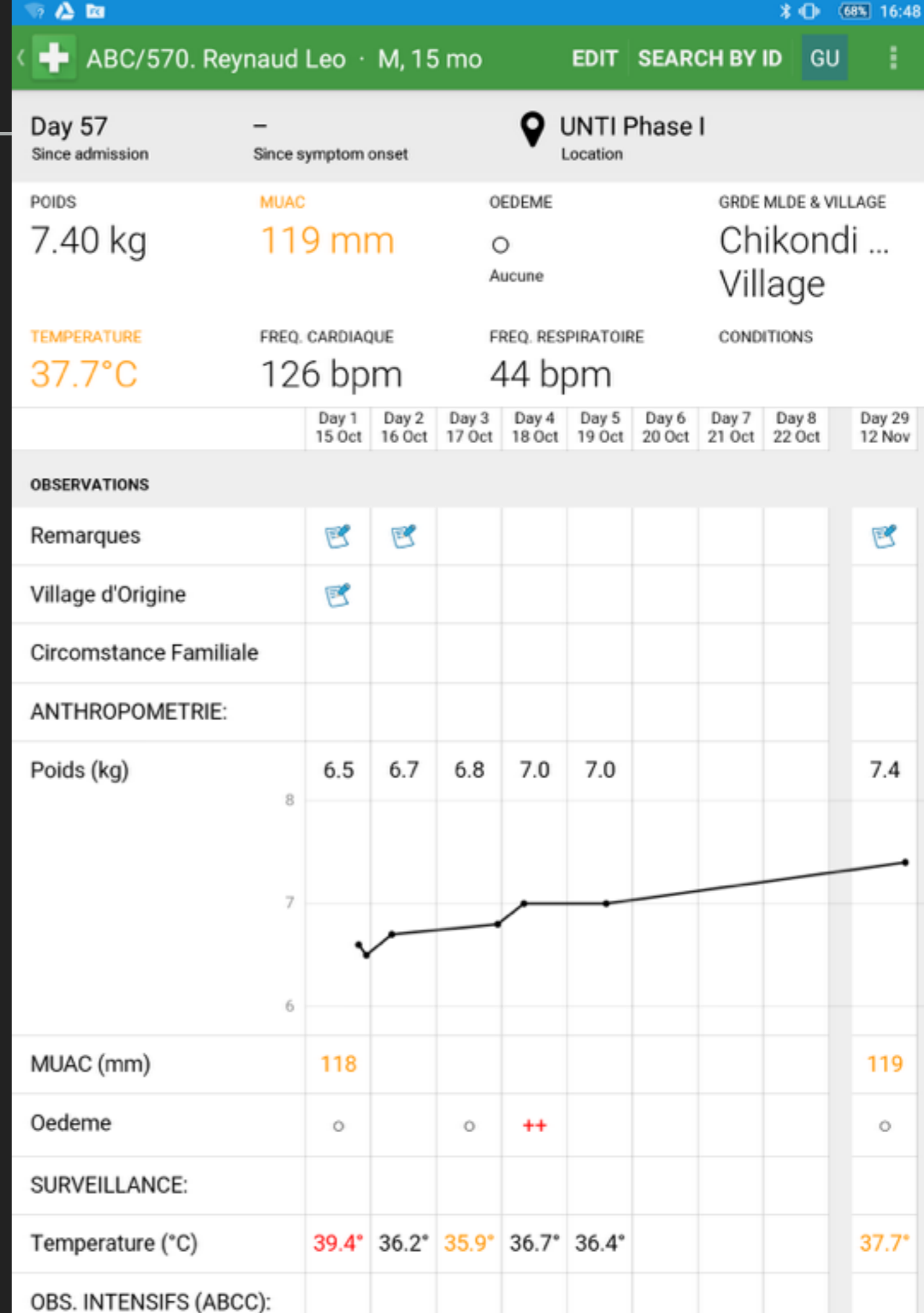
- ▶ Battery powered
 - ▶ ~10 hrs at normal load
 - ▶ Can be charged from a car battery
- ▶ Zero internet
- ▶ All data replicated on tablets
- ▶ Physically rugged



KEY FOCUS

FLEXIBILITY

► CSV profiles



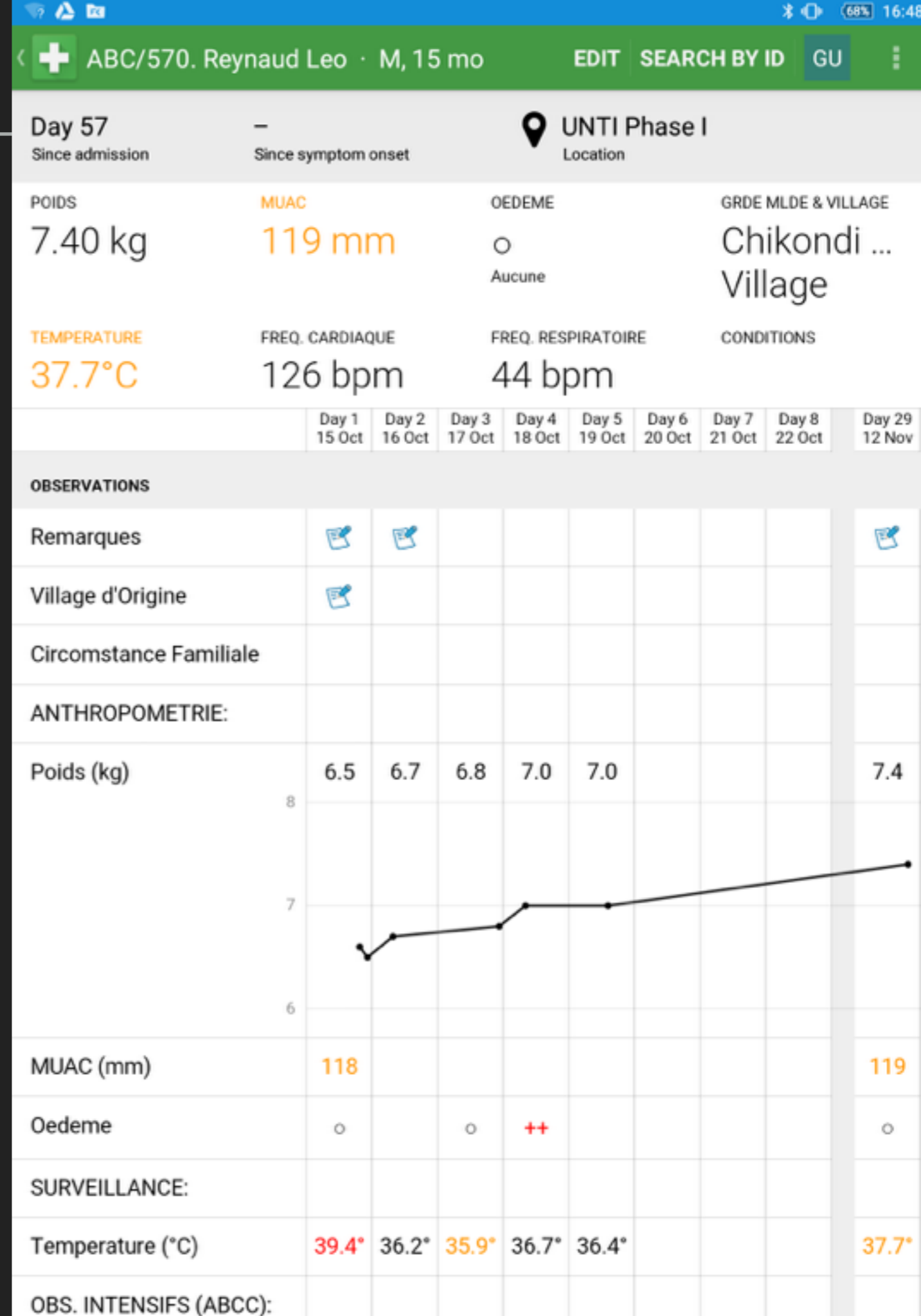
	C	D	E	F	G	H	I	J	K
1	section	type	concept	label	option concept	option label	normal	subcritical	absolute
2	Vitals								
3		number	5088	Temperature (°C)			36...37.5	36...39	30...50
4		number	5087	Pulse (bpm)			90...120	70...150	0...210
5		number	5242	Respiratory rate (bpm)			18...40	15...60	0...90
6		number	5092	SpO ₂ Oxygen Sat (%)			95...100		0...100
7		number	162513	Capillary refill (s)			0...3		0...10
8		number	887	Blood sugar (mg/ml)					
9		number	21	Haemoglobin (g/dL)					
10	Patient condition								
11		select_one	162643	Consciousness (AVPU)	160282	A. Alert			
12					162645	V. Responds to voice			
13					162644	P. Responds to pain			
14					159508	U. Unresponsive			
15		select_one	777000003	Appetite	777000017	Eating well			
16					777000018	Eating insufficiently			
17					777000001	Fluids only			
18					777000002	Nothing			
19		yes_no	777000100	Urinating		Urinating			
20	Symptoms								
21		select_one	460	Oedema	777000103	None			
22					777000104				
23					777000105				
24					777000106				
25		select_one	115127	Anaemia	1107				
26					1496				

USER-CONFIGURABLE
CHARTS AND FORMS

KEY FOCUS

FLEXIBILITY

- ▶ CSV profiles
- ▶ Commodity Hardware
 - ▶ Off-the-shelf server parts
- ▶ Android Tablets





**MEDECINS
SANS FRONTIERES**

**THERAPEUTIQUE
(CNT)**

COMMISSION EUROPEENNE



Aide humanitaire



LOOKING FORWARD



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Thanks!