

# Team 13: ICEBERG ACTERREA 3

January 20-21, 2018



Massachusetts  
Institute of  
Technology



ASSISTANCE  
PUBLIQUE

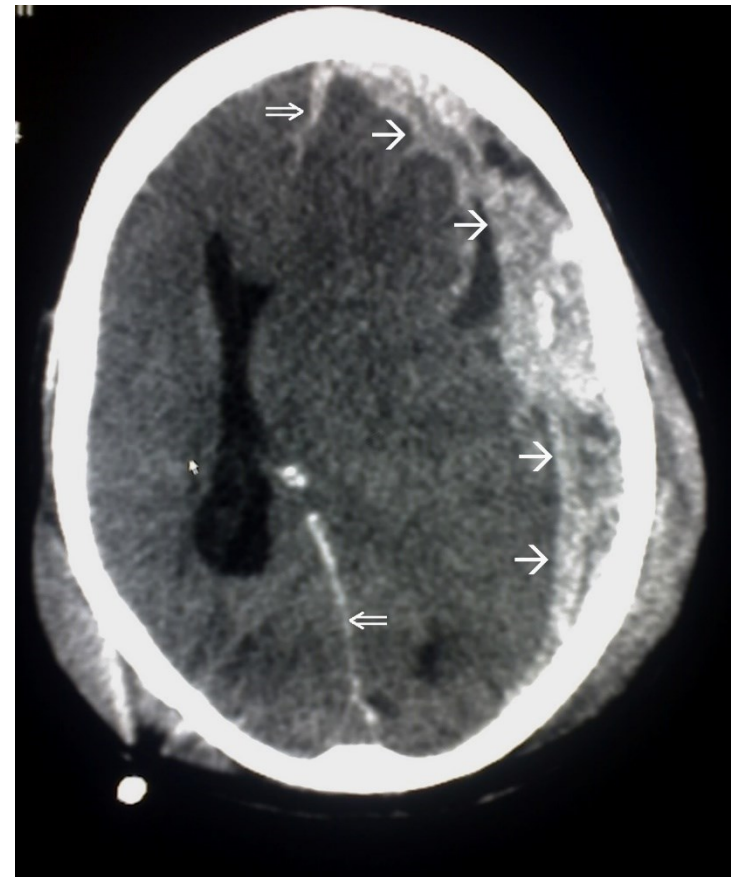
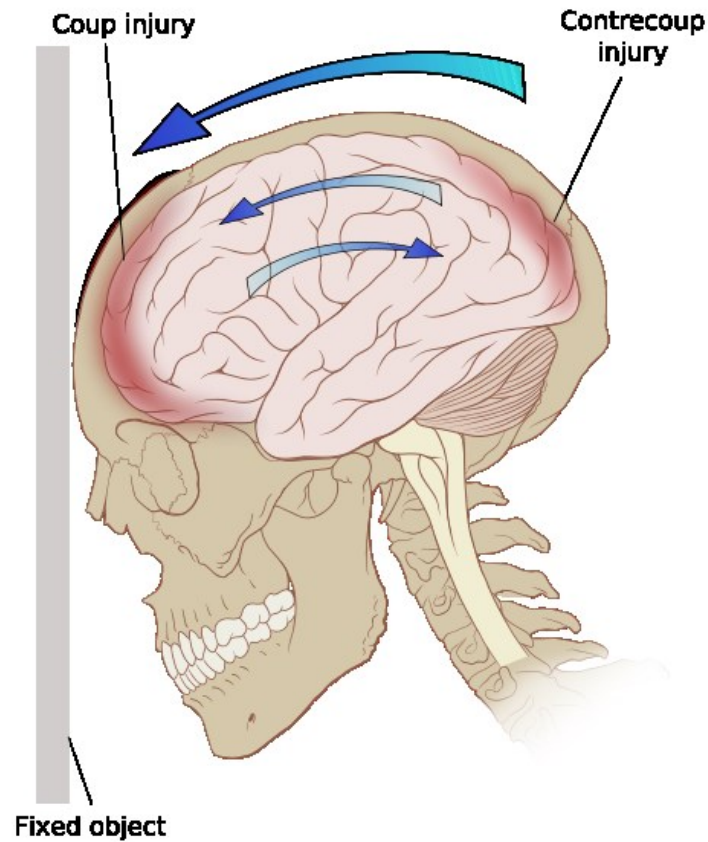


HÔPITAUX  
DE PARIS



[www.aphp.fr](http://www.aphp.fr)

## Traumatic brain injury (TBI)



## ICEBERG

Iceberg Score

Central temperature (°C)

Osmolarity  $2 * [Na+] + [Gly]$

Intracranial pressure (ICP)

Cerebral perfusion pressure (CPP)

Sedation intensity

Partial CO2 pressure (PaCO2)

Points			PPC (mm Hg)		
0			65		
0			60		
1			55		
2			50		
3			45		
4			40		
5			30		
0	36,8	290	8	40	Absence ice
1	36,5	295	12	38	léger
2	36	300	16	36	forte
3	35,5	305	20	33	profonde
4	35	310	25	30	
5	34	315	30	27	
	Temp (°C)	Osmol (mmol/L)	PIC (mm Hg)	PaCO <sub>2</sub> (mm Hg)	Sédation (+1 si citrales)

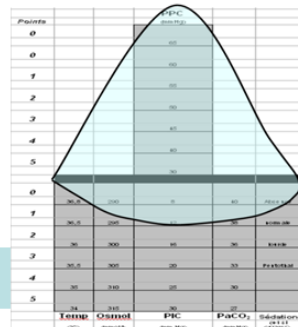
## Iceberg

3 - 7

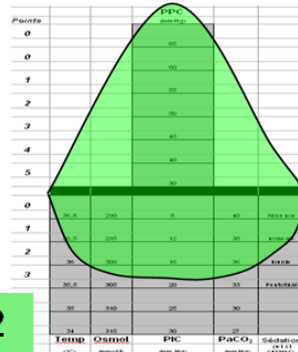
8 - 14

15 - 22

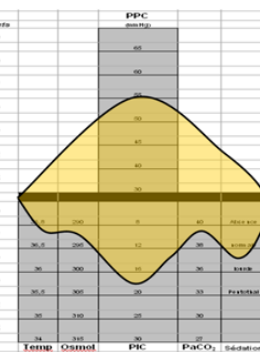
Profil 1



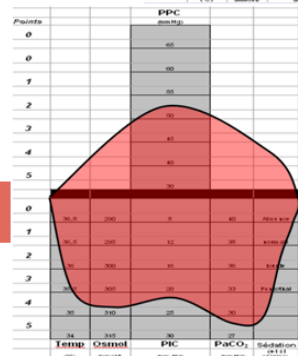
Profil 2



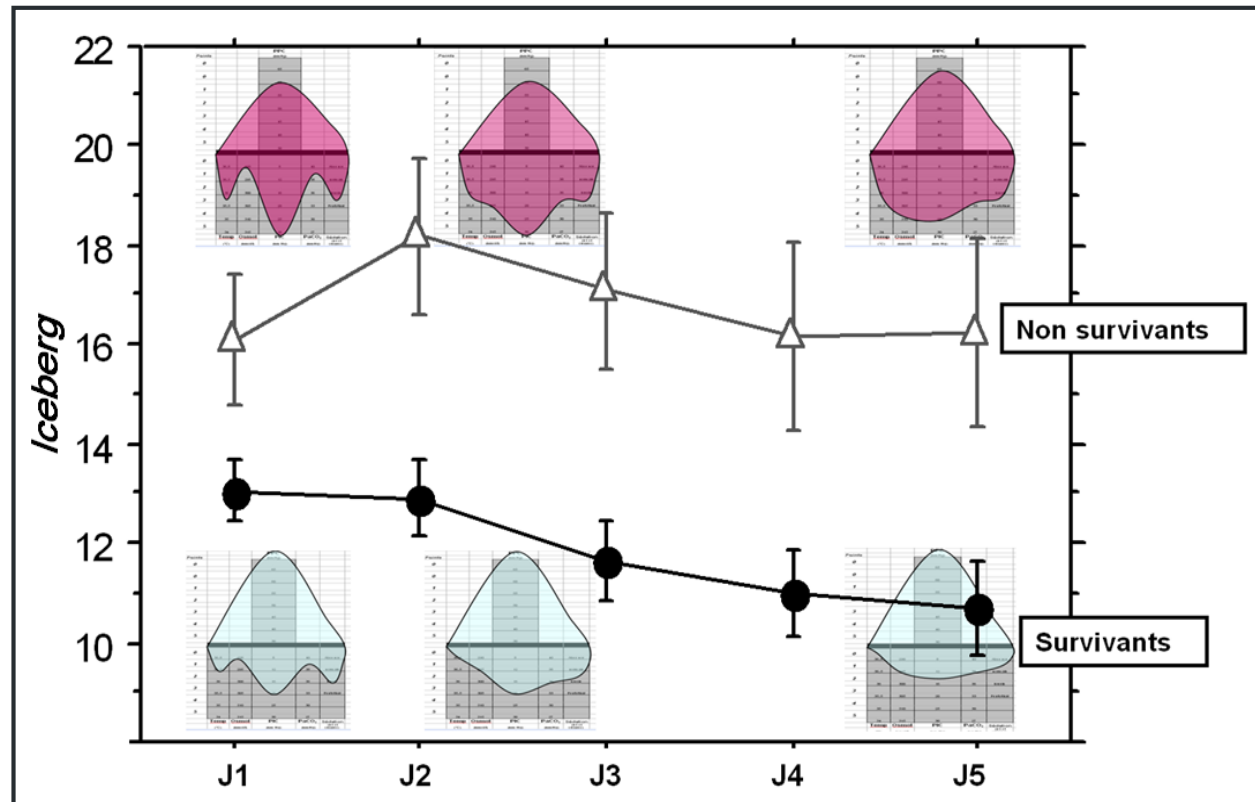
Profil 2 bis



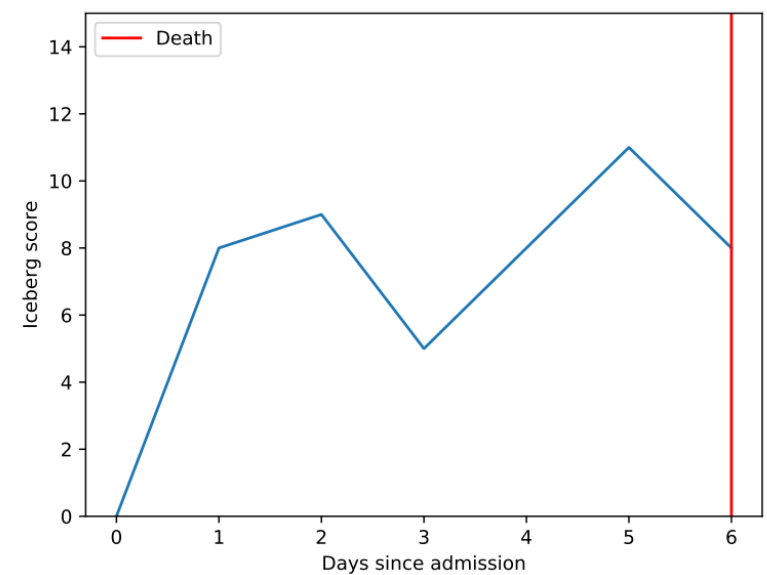
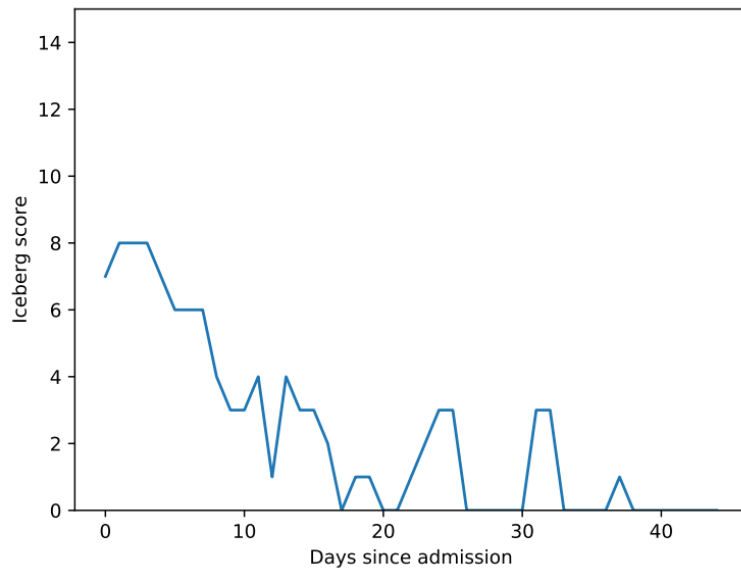
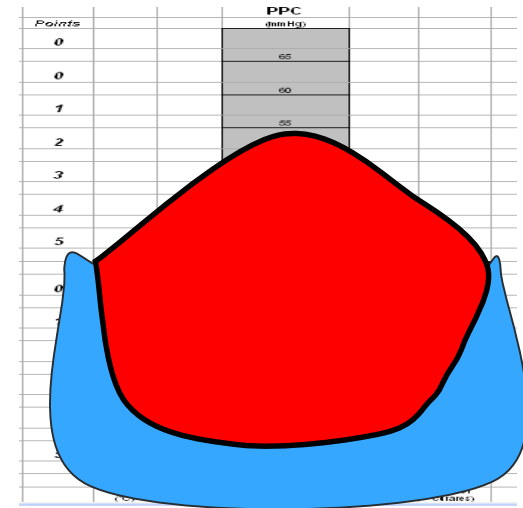
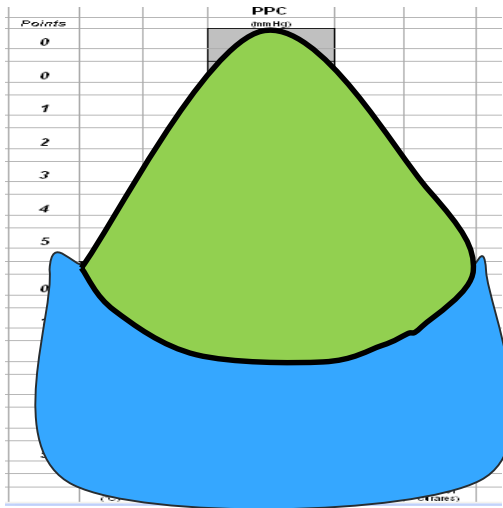
Profil 3



## Previous study (214 patients single center)

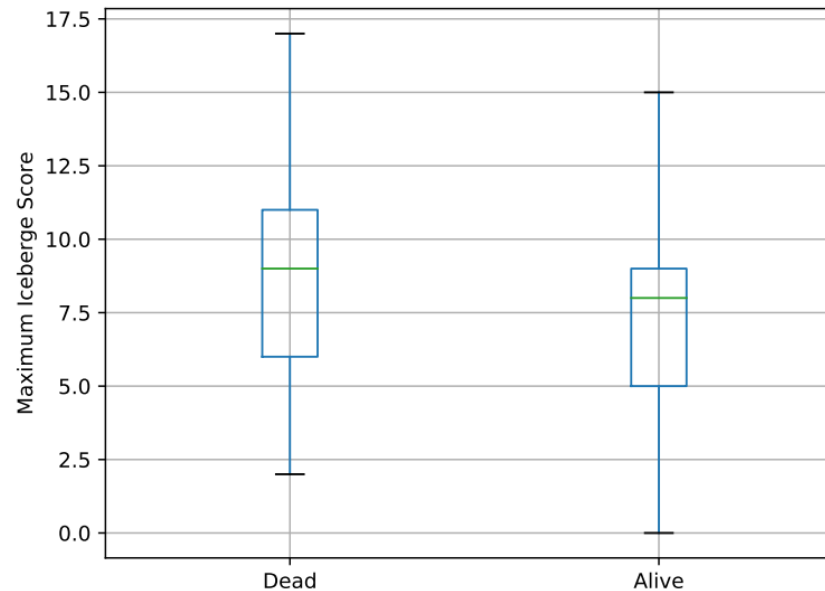


# Results





- N = 553 (patients with ICP)
- Crude mortality at day 28: 24.59%
- Max Ice: Alive: 8 [6 – 10], Dead: 9 [6.5 – 11.5],  $p=1.31e-5$



## ■ Missing data

- ▶ A lot of blood pressure points missing

## ■ Some incoherence

