

ER-PED Combined Meeting A 7 y/o girl with drowning

Supervisor: VS 王瑞芳
Presenter: R2陳穎玲
1020701

Basic Information

- 7 y/o female
- Sent by EMT
- Vital signs: 無法測量
- GCS: E1V1M1
- 檢傷主訴:救護員代訴溺水
- Triage: I

Present Illness

- 救護員代訴發現小朋友在水道裡漂浮,沒有反應,
- 沒有跳水
- 沉在水底
- 現場有做CPR6循環→call 110
- EMT到場似乎已有pulse.
- 至ER已ROSC:sinus tachycardia

Physical examination

Consciousness:Coma
pupil:4/4,light reflex:slurgish
Agonal respiration
Abd:Distended,
On NG:Much water and yellowish drainage
Limbs:Flaccid

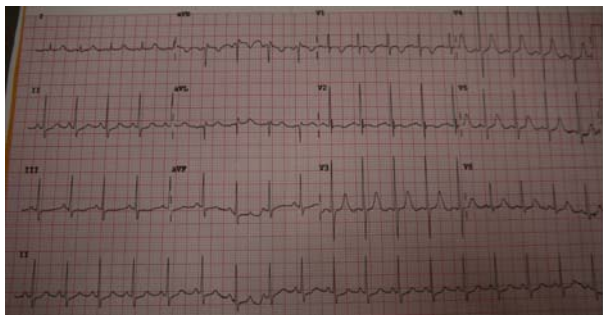
Order

- On Monitor
- On ETT with MV ,5.5# fixed 17cm
- Call PED
- On NG decompression
- On foley
- CBC/DC/PLT
- Panel I, iCa
- F/S(299)
- PT, APTT
- ABG (3)
- N/S 40cc/hr
- EKG, CXR
- Brain CT without contrast
- On Critical
- ETCO₂(32)

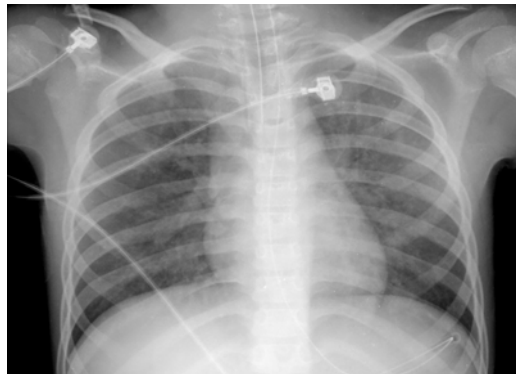
ABG

- PH=6.682
- PCO₂=84.8 mmHg
- PO₂=482 mmHg
- BE=-26 mmol/L
- HCO₃=10.1 mmol/L
- SO₂=100 %

EKG



Chest X-ray

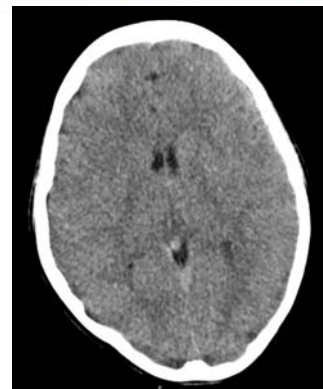


KUB



Brain CT

No ICT or hydrocephalus.
No ICH or other intracranial lesion.



18:50

- Admit to PICU
- Tentative diagnosis
 - OHCA, s/p CPR, with ROSC
 - Near Drowning
- Start **therapeutic hypothermia**

Lab

PT	11.9	second	WBC	14.2	X1000/ul
Normal control	10.2	second	RBC	4.85	million
INR	1.16	Ratio	Hb	13.3	gm/dl
APTT	42.7	second	Ht	40.0	%
Normal control	33.3	second	MCV	82.5	fl
APTT ratio	1.28		MCH	27.4	pg
GOT(AST)	66	U/L	MCHC	33.3	%
BUN	13	mg/dL	RDW	12.8	%
Creatinine	0.63	mg/dL	Platelet	238	x1000/ul
eGFR	149.09		Differential count	*****	
Na	143	meq/L	Segmented		
K	3.9	meq/L	Neutro.	28.0	%
iCa	5.42	mg/dL	Lymphocyte	64.0	%
			Monocyte	6.0	%
			Eosinophil	1.0	%
			Basophil	0.0	%
			Atypical lymphocyte	1.0	%
			Band	0.0	%

Lab

GPT(ALT)	43	U/L
T-Bilirubin	0.2	mg/dL
D-Bilirubin	0.1	mg/dL
Cl	105	meq/L
P	8.30	mg/dL
Mg	2.50	mg/dL
CRP	0.129	mg/dL
Ammonia	119	ug/dL
CPK	7525	U/L
Troponin I	0.184	ug/L
Lactate	43.3	mg/dL

PICU Order (Cooling phase)

- Dopamin pump
- Cisatracurium pump: 40mg cisatracurium in 0.9% NS final 100cc
- 體溫:兩耳體溫,機器設溫
- Antibiotics with :
 - Claforan 1 g iv Q8H + st
 - Clindamycin 150mg iv Q8H
- Zantec 25mg iv Q8H

Lines

- On hypothermia pad, set machine, target temperature 33 °C
- On esophageal thermometer
- 外on NG, CVP, Foley
- NPO except drugs

Blood Sample

- CBC/DC/Plt , QD
- N/K,C,C,P,Mg, Q6H
- BUN/Cre,CRP,AST,ALT,T/D bilirubin Q6H
- CBG Q4H
- F/S Q1H X 4 次,Q4H X 2次 then Q6H
- Lactate,Tro-I,CPK,Ammonia,Albumin 開始和結束

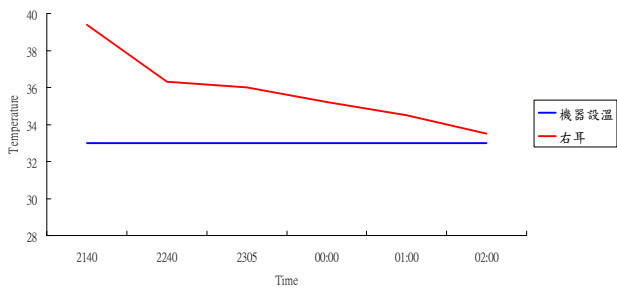
Vital signs

- BT/HR/BP/SaO2 Q3H

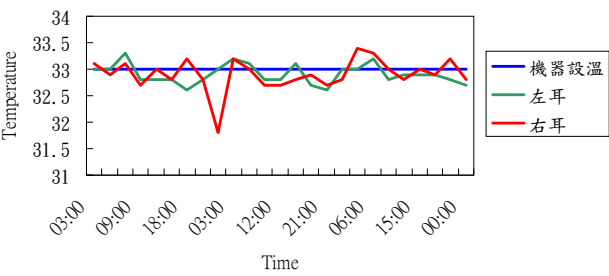
Therapeutic Hypothermia

- Stage I : Cooling phase day1 21:40
- Stage II : Hypothermia phase day2 02:50
- Stage III : Rewarming phaseday5 02:50
- Stage IV : Post hypothermia phase day7 06:00

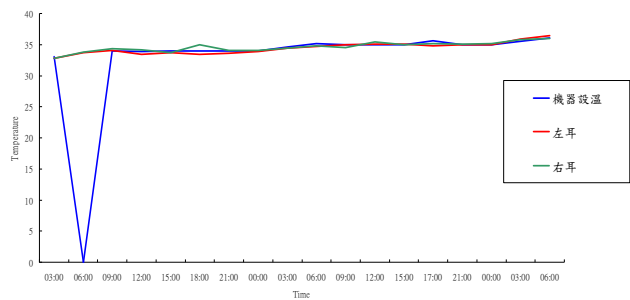
Stage I (cooling phase)



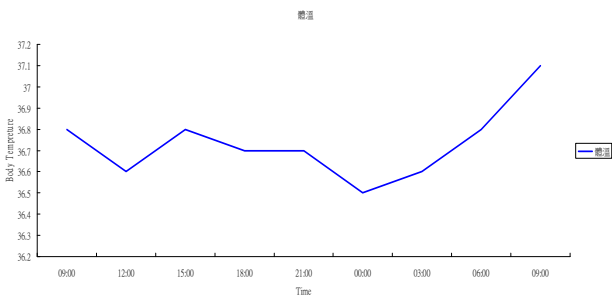
Stage II Hypothermia phase



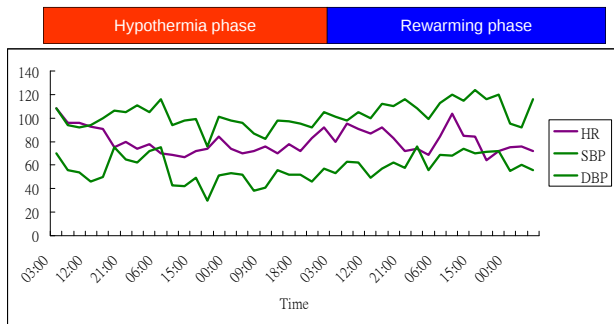
Stage III Rewarming phase
↑0.2C/hrX5hrs Q24hr for 3times



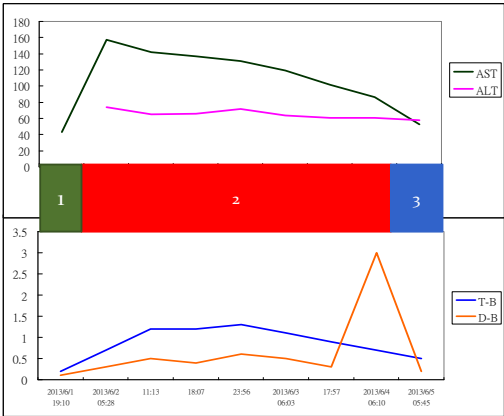
Stage IV Post hypothermia phase

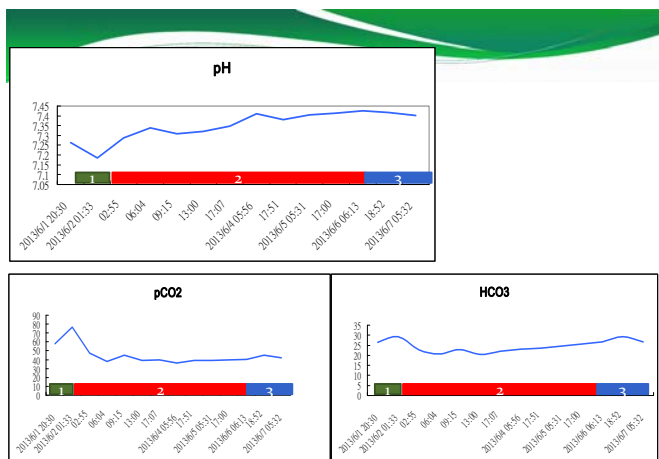
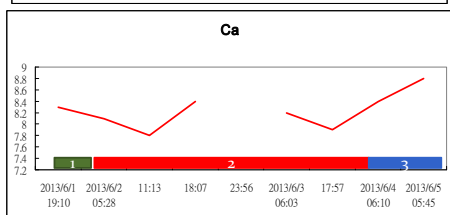
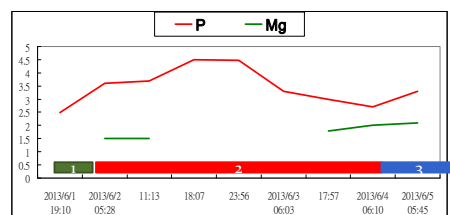
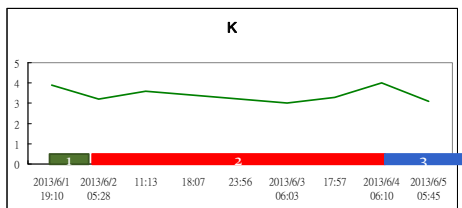
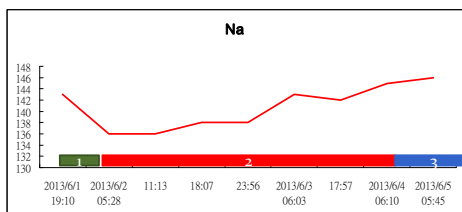


Vital signs



Hepatobiliary Function

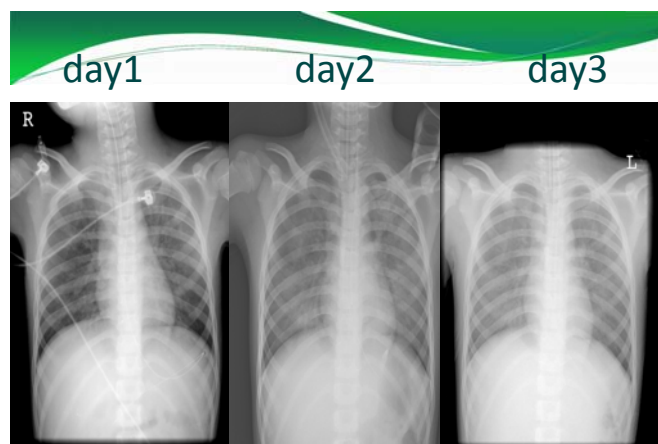
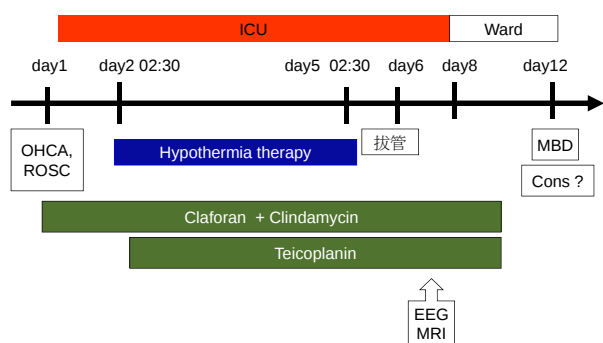




Result

	Before	After
CK	7525	538
Tro-I	0.184	0.033
Lactate	43.3	19.8
Ammonia	119	44
Albumin	4	3.1

Hospital Course



day7

day10

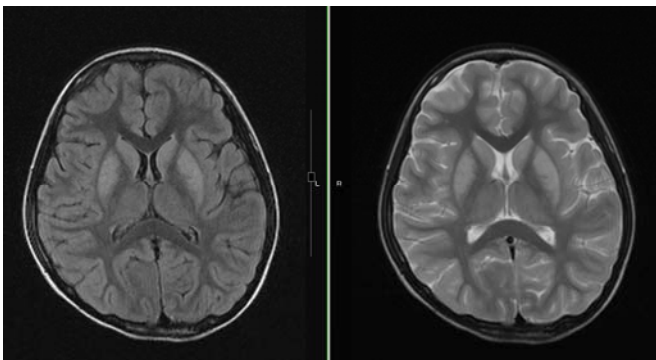


EEG

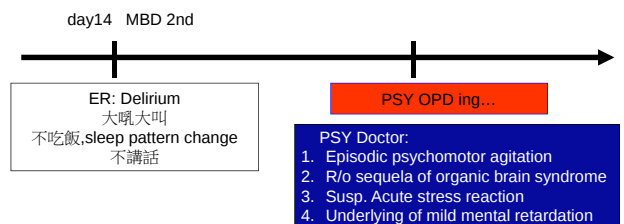
- Generalized slow waves were noted.
- Severe cerebral dysfunction.

MRI

- Bilateral caudate nucleus and putamen lesion, HIE could be compatible.



The story following with



THE END