

Table S1. Clinical information and CT findings of 19 pediatric OHCA patients with non-ROSC

Case no.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	Detection rate (n)
Age/sex	2y / m	2y 11m / f	2m / f	5m/m	9y/f	5y11m/f	1y2m/m	10m / f	2y7m/f	3m/ f	5m/f	1y 2m / m	2m / m	1m / m	1y4m /m	6y1m /m	4m /f	1m/ m	9m/ m	
Past history		none			asthma (currently untreated)	tubuloinopathy	none		congenital cytomegalovirus infection, symptomatic epilepsy	none	neonatal asphyxia, transient tachypnea of the newborn		none		febrile convulsions, asthma		none		periventricular leukomalacia	
Scene of the find	sleeping on prone position at home		sleeping on right lateral position beside the bed	sleeping on right lateral position beside the bed	supine position with loss of consciousness at home	sleeping on prone position at home	prone position with the face wrapped in a blanket at home	sleeping on prone position at home				sleeping on prone position at home			sleeping on supine position at home	loss of consciousness on the train		sleeping on supine position at home		

Estimated time from the last sighting to discovery	10 m	7h 30 m	5h 30 m	4h	2m	5h40 m	4h	7h3 0m	2h50m	1h2 0m	6h30 m	3h	9h 20 m	4 h 2 5 m	1h	0m	2h 25 m	8h	7h30 m	
Bystander CPR	+	-	-	-	+	+	-	-	-	+	+	-	+	+	-	-	-	-	-	
ROSC at emerg ency depart ment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Timing of CT scanni ng CT finding s				during CPR				afte r CP R	during CPR	afte r CP R					during CPR					
Head																				
Brain swellin g	+	+	-	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	84
Loss of cerebra	-	+	+	+	-	+	-	-	+	+	+	+	+	-	+	+	+	+	+	74

Cardio megaly	-	+	+	+	+	-	-	+	+	+	+	+	+	+	+	+	+	+	+	84
Pericar dial effusion	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Hyper dense aortic wall	+	-	+	-	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	84
Narro wed aorta	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	100
Gas in the cardiac cavity, aorta, or superi or vena cava	+	+	+	-	-	+	-	+	+	+	+	+	+	+	+	-	+	+	+	79
Abdo men and pelvis																				
Hepat omegal y	+	-	+	+	+	+	+	+	+	+	+	+	-	+	+	+	-	-	+	79

Dilated inferior vena cava	-	-	-	-	+	-	-	-	-	-	-	+	-	-	-	-	+	-	-	16
Dilated gastrointestinal tract	-	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	89
Gas in the liver, kidney, pancreas, or spleen	-	+	+	-	-	-	-	-	-	+	+	+	-	+	-	-	-	+	+	42
Soft tissue																				
Dorsal subcutaneous fatty edema	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0

y - year

m - month

h - hour

CPR - Cardiopulmonary Resuscitation

CT - Computed Tomography

ROSC - Return of Spontaneous Circulation

Table S2. Clinical information and CT findings of 8 pediatric OHCA patients with ROSC

Case no.	1	2	3	4	5	6	7	8	Detection rate (n)
Age/sex	12m/m	10m/m	10m/m	12d/f	3y5m/f	4m/m	17y/f	13y10m/f	
Past history					none			hypertrophic cardiomyopathy	
Scene of the find	sleeping on prone position at home	choked while eating		sleeping on prone position at home	on the car to the hospital	choked while eating	fallen down while playing volleyball	lying down at school	
Estimated time from the last sighting to discovery	5m	0	0	1m	0	1h55m	0	10m	
Bystander CPR	+	-	-	-	+	-	-	+	
ROSC at emergency department	+	+	+	+	+	+	+	+	
Timing of CT scanning					during CPR				
CT findings									
Head									
Brain swelling	-	-	+	-	-	-	-	-	12.5

Hepatomegal y	-	+	-	-	-	-	-	-	12.5
Dilated inferior vena cava	-	-	-	+	-	-	-	+	25
Dilated gastrointestin al tract	+	-	+	+	+	+	-	-	62.5
Gas in the liver, kidney, pancreas, or spleen	-	-	-	-	-	-	-	-	0
Soft tissue									
Subcutaneous fatty edema	-	-	-	-	-	-	-	-	0

y - year

m - month

h - hour

CPR - Cardiopulmonary Resuscitation

CT - Computed Tomography

ROSC - Return of Spontaneous Circulation