ECPR “Paris experience”
or
How to visit Paris with the SAMU...

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Low Flow influence

N=135

Chen YS. Etal. CCM 2008

Wengenmayer et al. Critical Care 2017
Golden hour for ECPR


Survivors

N=133
Extraction limits...
Vertical and horizontal limits of load and go strategy
Comparison of prehospital VS in hospital ECLS strategy

- Prehospital ECLS n = 7
- In Hospital ECLS n = 12

« Red gallery » in the Louvre

Le radeau de la méduse

la liberté guidant le peuple
Le peuple guidant la liberté
Le radeau de la méduse
Grand palais
Prehospital ECPR: examples in Paris

On the road

Supermarket

Subway

Boat

Lamhaut et coll. PREHOSPITAL EMERGENCY CARE 2017
Helicopter

- CA with No flow: 0 min
- Alert – Take off 18 min
- Alert – Pump activation: 50 min
- Low flow: 83 min
- Outcome Survivor CPC 1
RCA after 20 min of CPR with AED

- Signs of life during CPR at the time of decision
  - Or Hypothermia (T<32°)
  - Or Intoxication or general anesthesia

Consider ECPR*

No major comorbidity

Yes

Witnessed CA and immediate CPR (no flow≤5 min)

Yes

Initial Rhythm

- VF-VT
- PEA

EtCO2 at ECPR decision >10 mmHg

Yes

ECPR in less than 60 min (acceptable 100 min)

Yes

Consider ECPR

* ECPR ASAP but no maximal delay

Classical ALS

- Age < 55 YO
- No Flow <30 min
  + Hospital arrival <120 min after CA

Consider NBHD

NO

NO

NO

EtCO2 at ECPR decision >10 mmHg

Yes

Consider ECPR

Lamhaut et coll Resuscitation. 2017 Apr 14
Signs of life

- Breathing
- Gasp
- Movement
- Myosis
Figure 3: Effect of an aggressive strategy for refractory cardiac arrest by the different part of this strategy. The selection is the patient selection of period 2 (Cf Annex 2). The protocol is:

- prehospital ECPR
- epinephrine equal or less than 5 mg
- systematic etiologic research.

Protocol = Pre-hospital ECPR + Epinephrine ≤ 5 mg + Direct angiography

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Lamhaut et coll Resuscitation. 2017 Apr 14
The new chain of survival for refractory cardiac arrest
Thank you

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