



Arrêt cardiaque réfractaire

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Médecine Intensive – Réanimation

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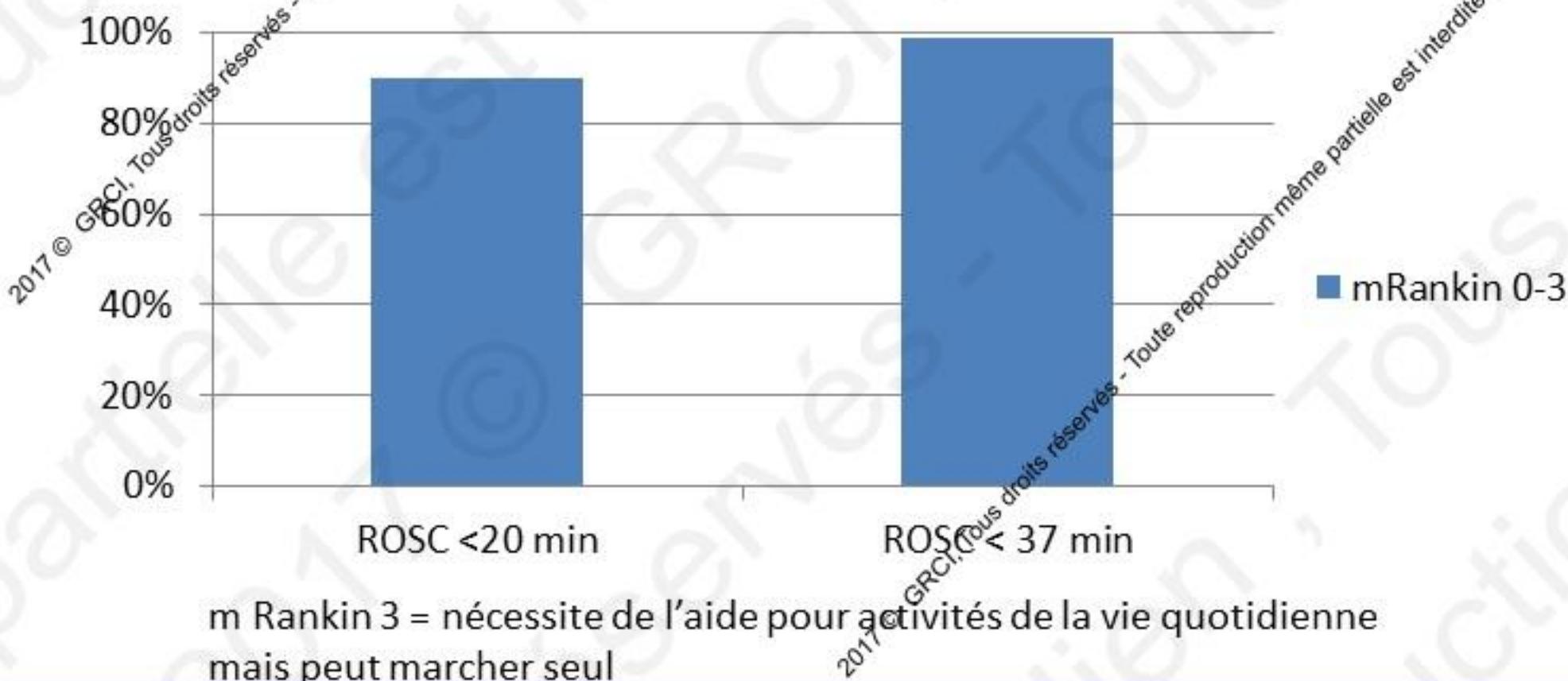
Paris, France

Charles-Edouard, LUYT, Paris

Je déclare les liens d'intérêt potentiel suivants:

Honoraires: Bayer Healthcare, MSD, Biomérieux
Subvention: Curetis, Bayer Healthcare

Qu'est-ce qu'un ACR réfractaire?



Que disent les recommandations?

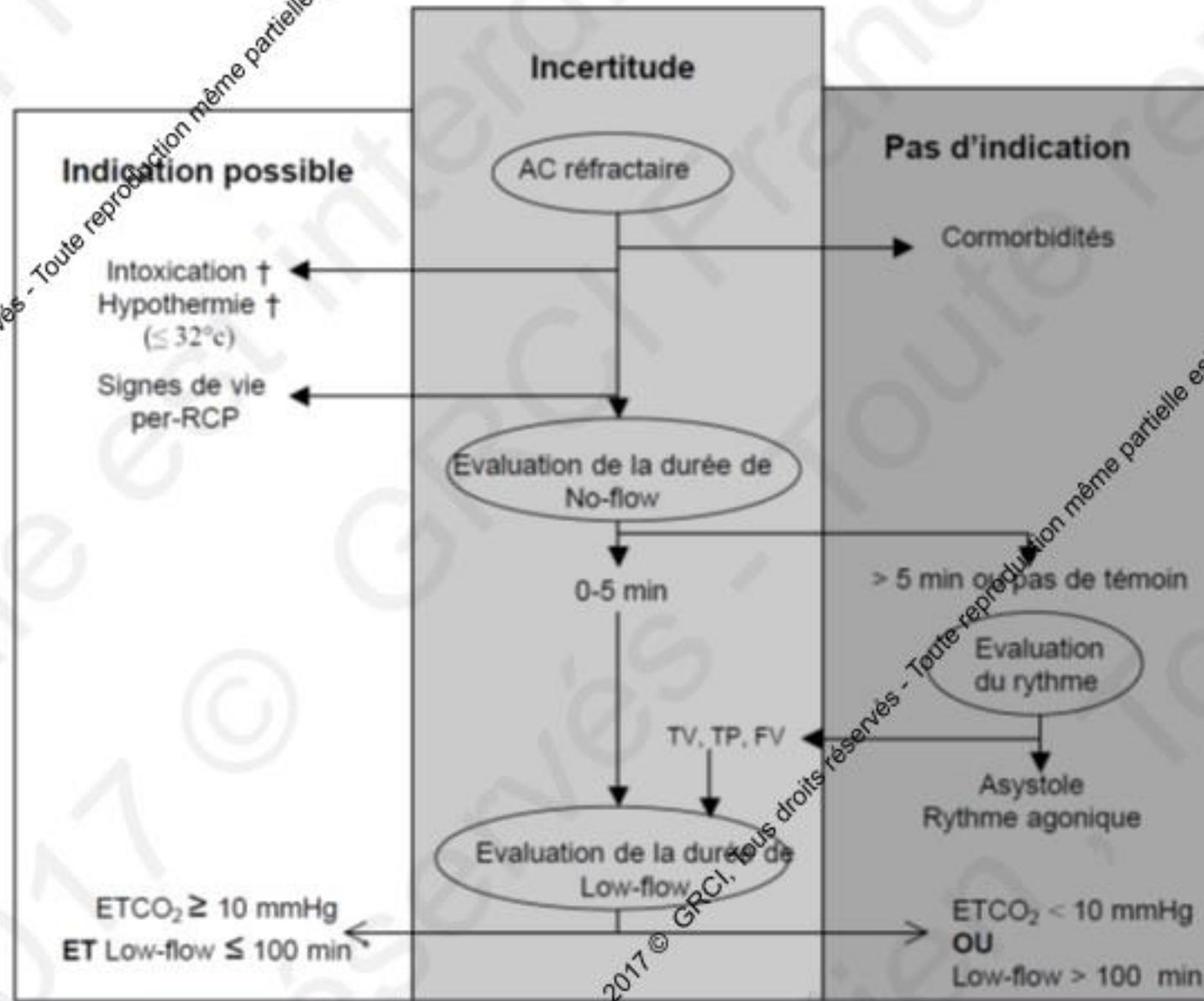
European Resuscitation Council Guidelines for Resuscitation 2015

- Arret de la réanimation doit être envisagée si, en l'absence de cause réversible, persistance d'une asystolie après 20 minutes de RCP
- Autres situations?



ECMO/ECLS...ECPR

- Séduisant sur le papier
- Assistance cardio-pulmonaire
- Implantable rapidement (<20 min de pose)
 - Chirurgicale ou percutanée
- Peut être mis par une unité mobile
- Chirurgien ou non chirurgien
- Permet de restaurer une circulation efficace



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refractory cardiac arrest and ecmo

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Improving cannulation time for extracorporeal life support in refractory cardiac arrest of

1. presumed cardiac cause - Comparison of two percutaneous cannulation techniques in the catheterization laboratory in a center without on-site cardiovascular surgery.

Volcu S, Henry P, Malissin I, Jean-Guillaume D, Koumoulidis A, Magkoutis N, Yannopoulos D, Logearaj S, Manzo-Silberman S, Péron N, Deye N, Megarbane B, Sideris G.

Resuscitation. 2017 Nov 26;122:69-75. doi: 10.1016/j.resuscitation.2017.11.057. [Epub ahead of print]

PMID: 29183830

ECMO as an effective rescue therapeutic for fulminant myocarditis complicated with refractory

2. cardiac arrest.

Li YT, Yang LF, Chen ZG, Pan L, Duan MQ, Hu Y, Zhou CB, Guo YX.

Ther Clin Risk Manag. 2017 Nov 14;13:1507-1511. doi: 10.2147/TCRM.S147845. eCollection 2017.

PMID: 29180869 Free PMC Article

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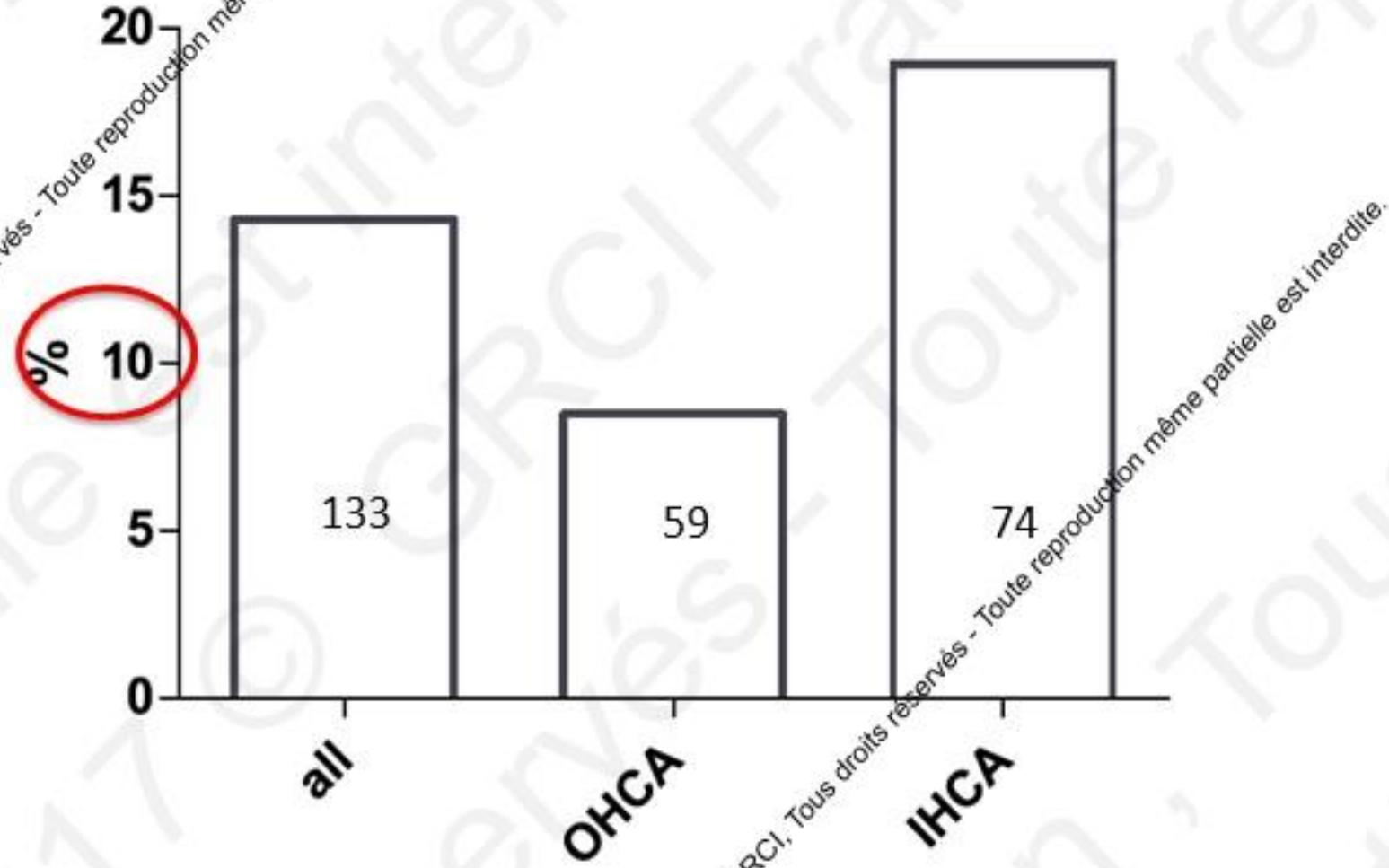
Extracorporeal membrane oxygenation (ECMO) assisted cardiopulmonary resuscitation [Resuscitation. 2016]

Refractory cardiac arrest treated with mechanical CPR, hypothermia [Resuscitation. 2015]

[Extracorporeal membrane oxygenation (ECMO) in ICU patients suffering from [Rev Med Liege. 2010]

[See more...](#)

Survie CPC 1-2



ACR en présence de témoin, en excluant intoxication et hypothermie

Auteurs	Patients (n)	No Flow (min)	Low Flow (min)	Vivant (%)
Chen, 2008	7	NA	NA	14 (0-58)
Kagawa, 2010	39	1 [1-8]	59 [45-65]	13 (4-27)
Le Guen, 2011	51	3 [1-7]	120 [102-149]	4 (1-13)
Mégarbane, 2011	66	2 [0-6]	155 [120-180]	2 (0-8)
Hashiba, 2012	16	0	27 ± 12	13 (2-38)
Wu, 2012	28	NA	NA	18 (6-37)
Maj, 2012	20	NA	NA	15 (3-38)
Masson, 2012	3	NA	59 ± 11	100 (29-100)
ECLS France	374	0[0-5]	80 [70-105]	13 (9-16)

2015 American Heart Association Guidelines Update for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care

2015 Recommendation—New

There is insufficient evidence to recommend the routine use of ECPR for patients with cardiac arrest. In settings where it can be rapidly implemented, ECPR may be considered for select cardiac arrest patients for whom the suspected etiology of the cardiac arrest is potentially reversible during a limited period of mechanical cardiorespiratory support (Class IIb, LOE C-LD).

Les devises Shadok



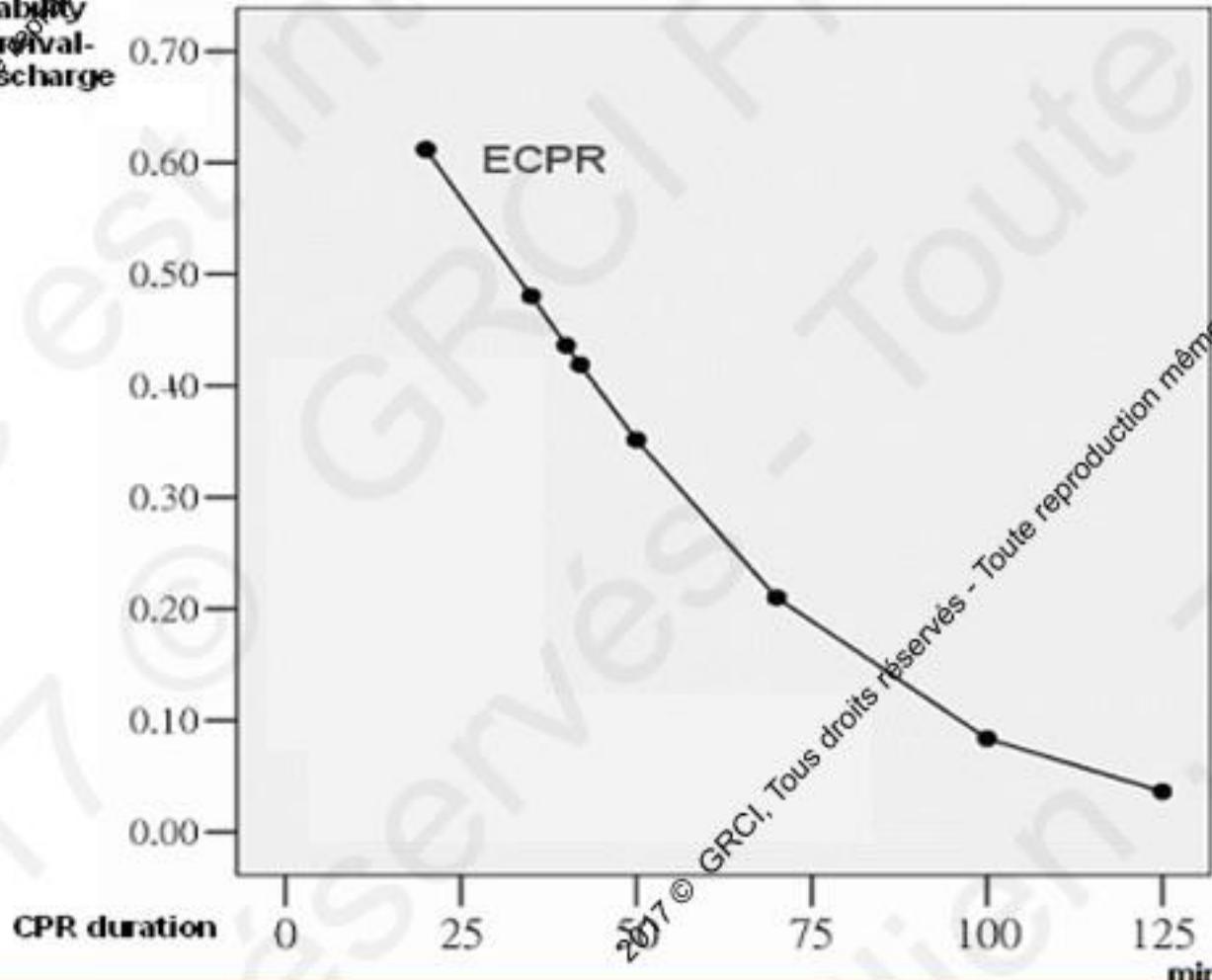
EN ESSAYANT CONTINUELLEMENT
ON FINIT PAR RÉUSSIR. DONC:
PLUS ÇA RATE, PLUS ON A
DE CHANCES QUE ÇA MARCHE.

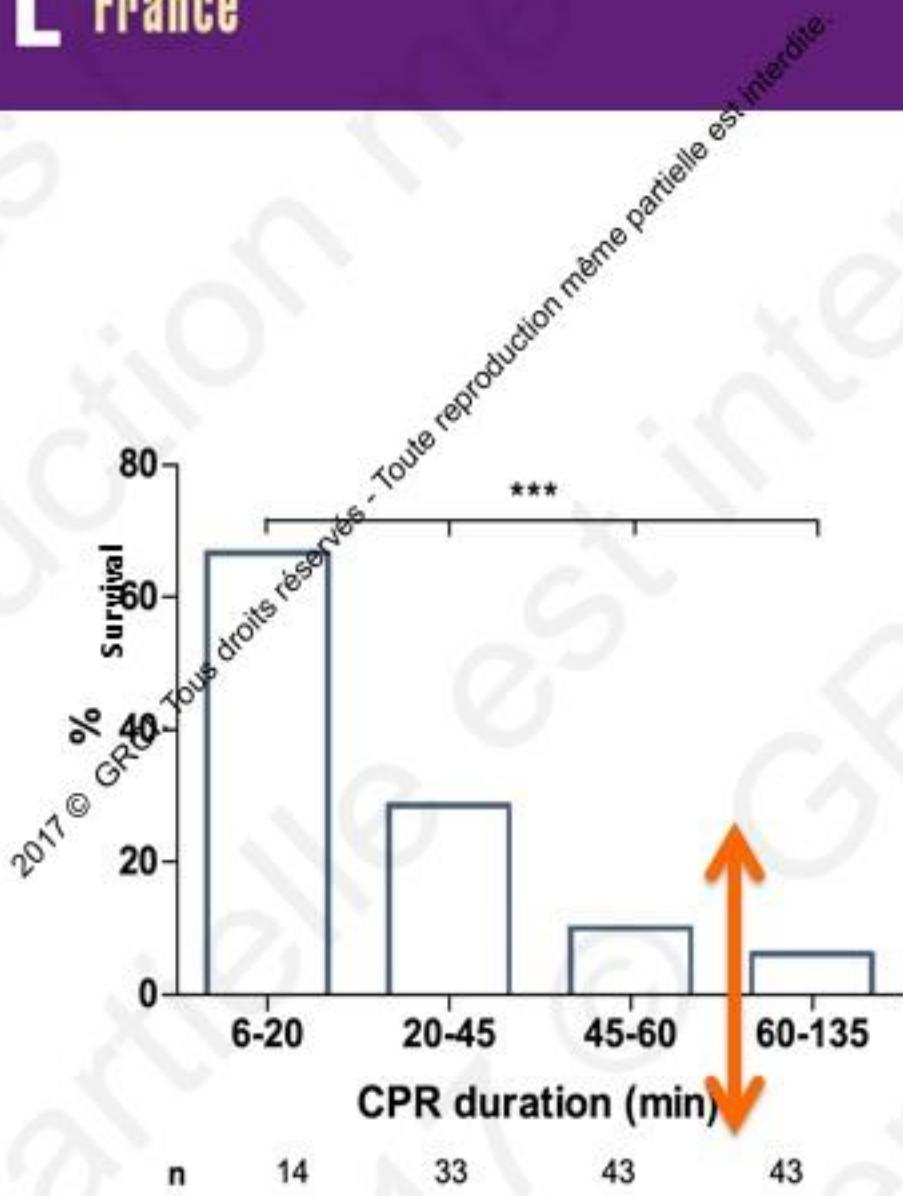
eCPR: course contre la montre

Probability
of survival
to discharge

IHCA

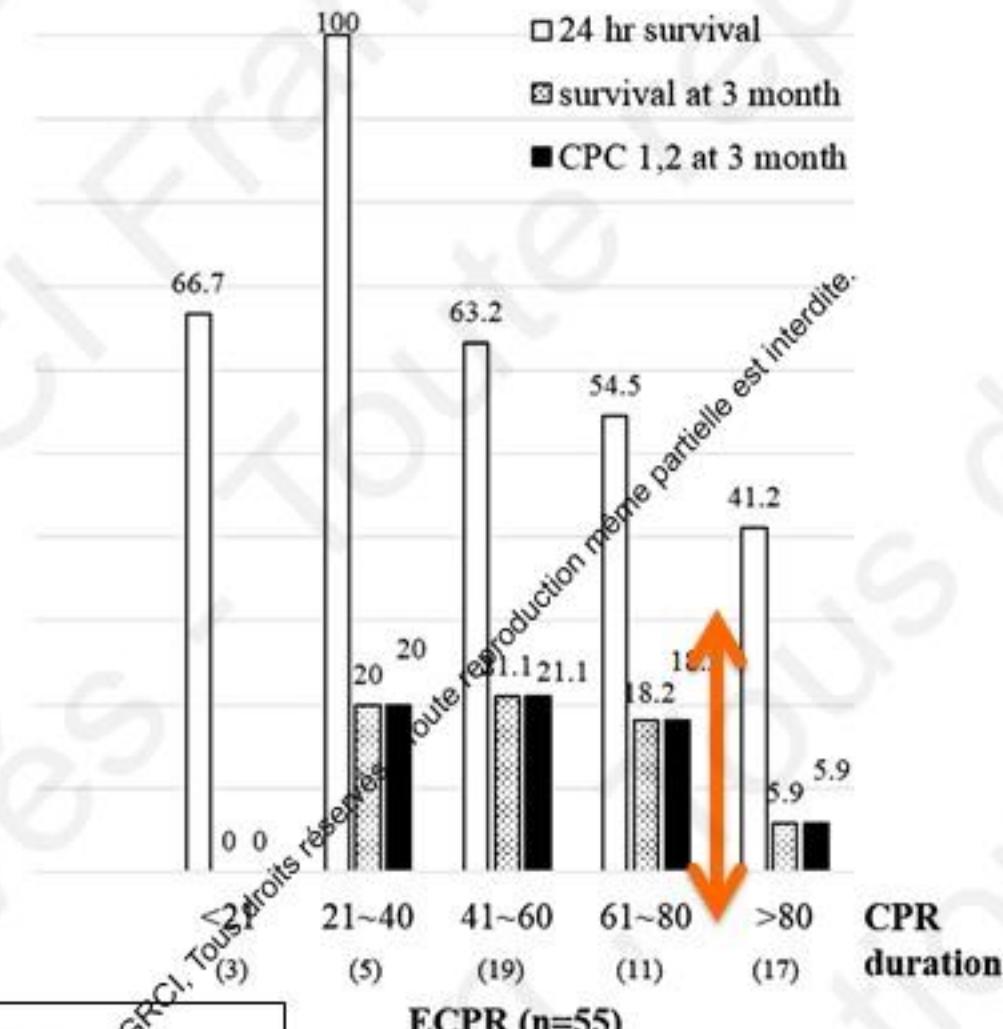
Chen. CCM 08





Wengenmayer. Crit Care 2017

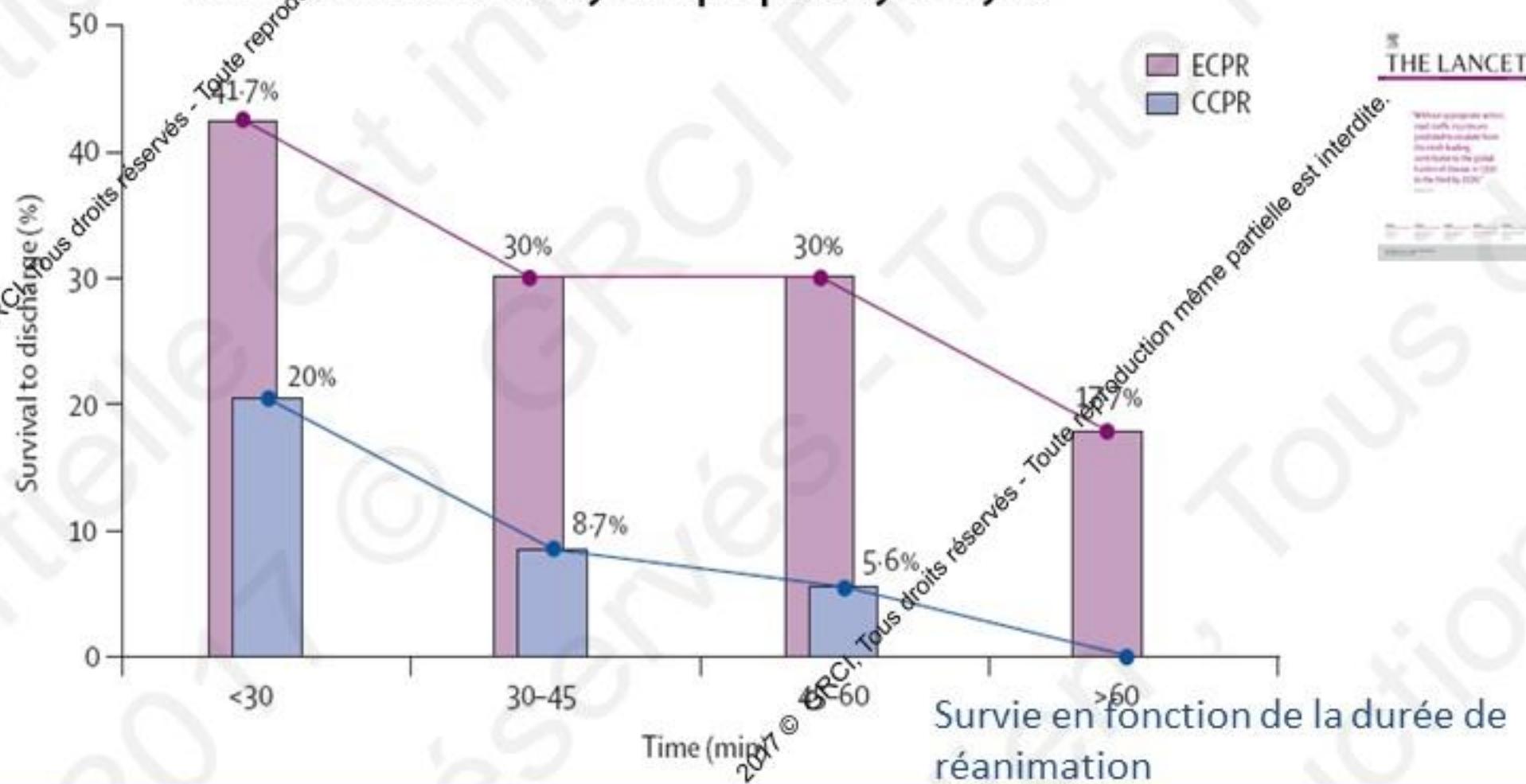
60-80 mins
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Kim. Crit Care 2014

Cardiopulmonary resuscitation with assisted extracorporeal life-support versus conventional cardiopulmonary resuscitation in adults with in-hospital cardiac arrest: an observational study and propensity analysis

Lancet 2008; 372: 554-61

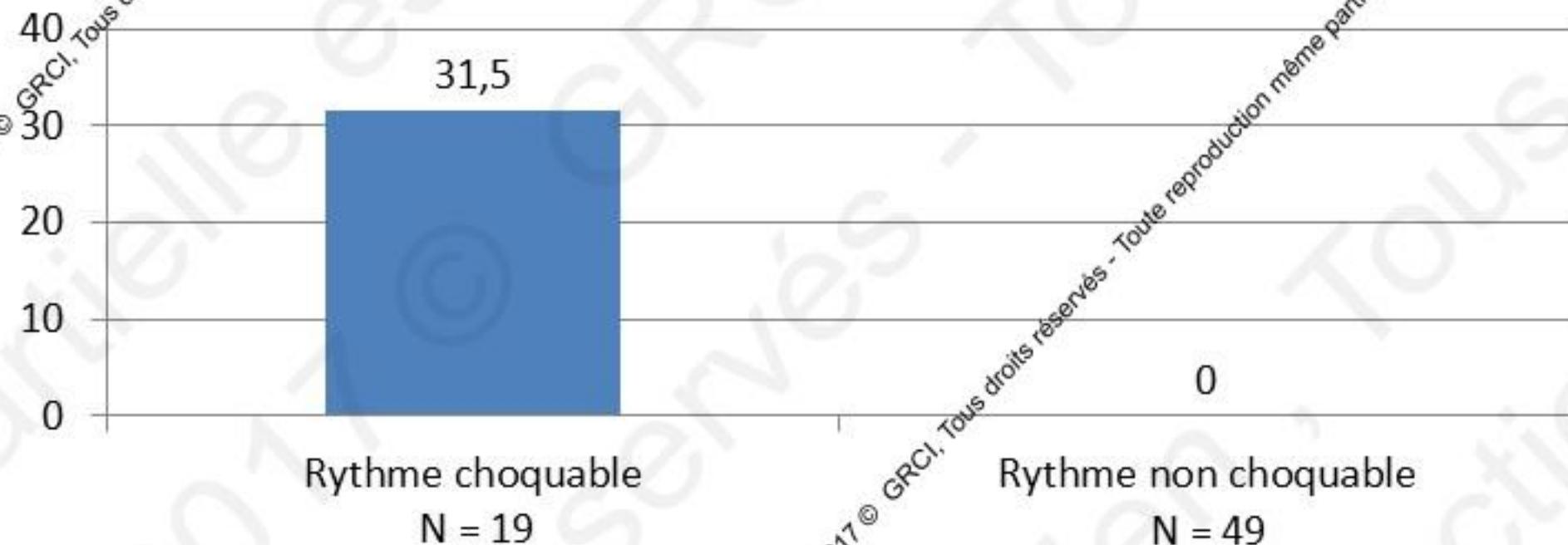


Comment mieux sélectionner? Rythme initial

Extracorporeal life support for refractory out-of-hospital cardiac arrest:
Should we still fight for? A single-centre, 5-year experience★

Survie

International Journal of Cardiology 204 (2016) 70–76



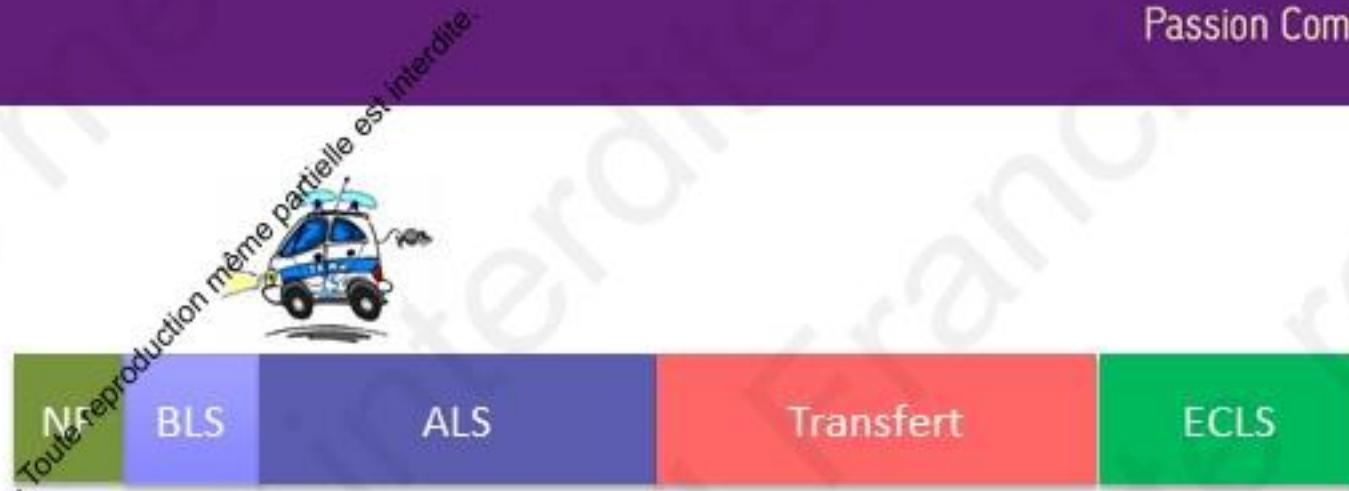
European Resuscitation Council Guidelines for Resuscitation 2015

E CPR envisageable

- EMS witnessed arrest
- ROSC at any moment
- VT/VF as presenting rhythm
- Presumed reversible cause (e.g. cardiac, toxic, hypothermia)

This decision should be considered early in the process e.g. after 10 min of ALS without ROSC and in view of the circumstances e.g. distance, CPR delay and presumed CPR quality in view of patient characteristics





A Pre-Hospital Extracorporeal Cardio Pulmonary Resuscitation (ECPR) strategy for treatment of refractory out hospital cardiac arrest: An observational study and propensity analysis

Lionel Lamhaut^{a,b}, Alice Hulin^{a,c}, Etienne Puymirat^{d,e}, Jérôme Jouan^f,

Mais:

Equipe dédiée 24/24 (médecin, IDE anesthésiste,
Ambulancier)

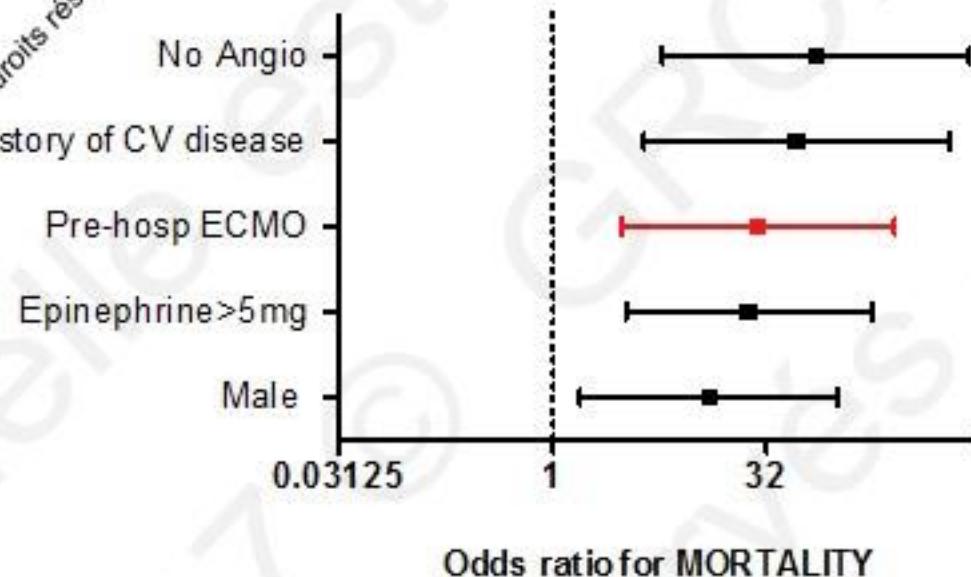
Départ sur tous ACR<70 ans, évaluation sur site

Après 20 minutes de réanimation

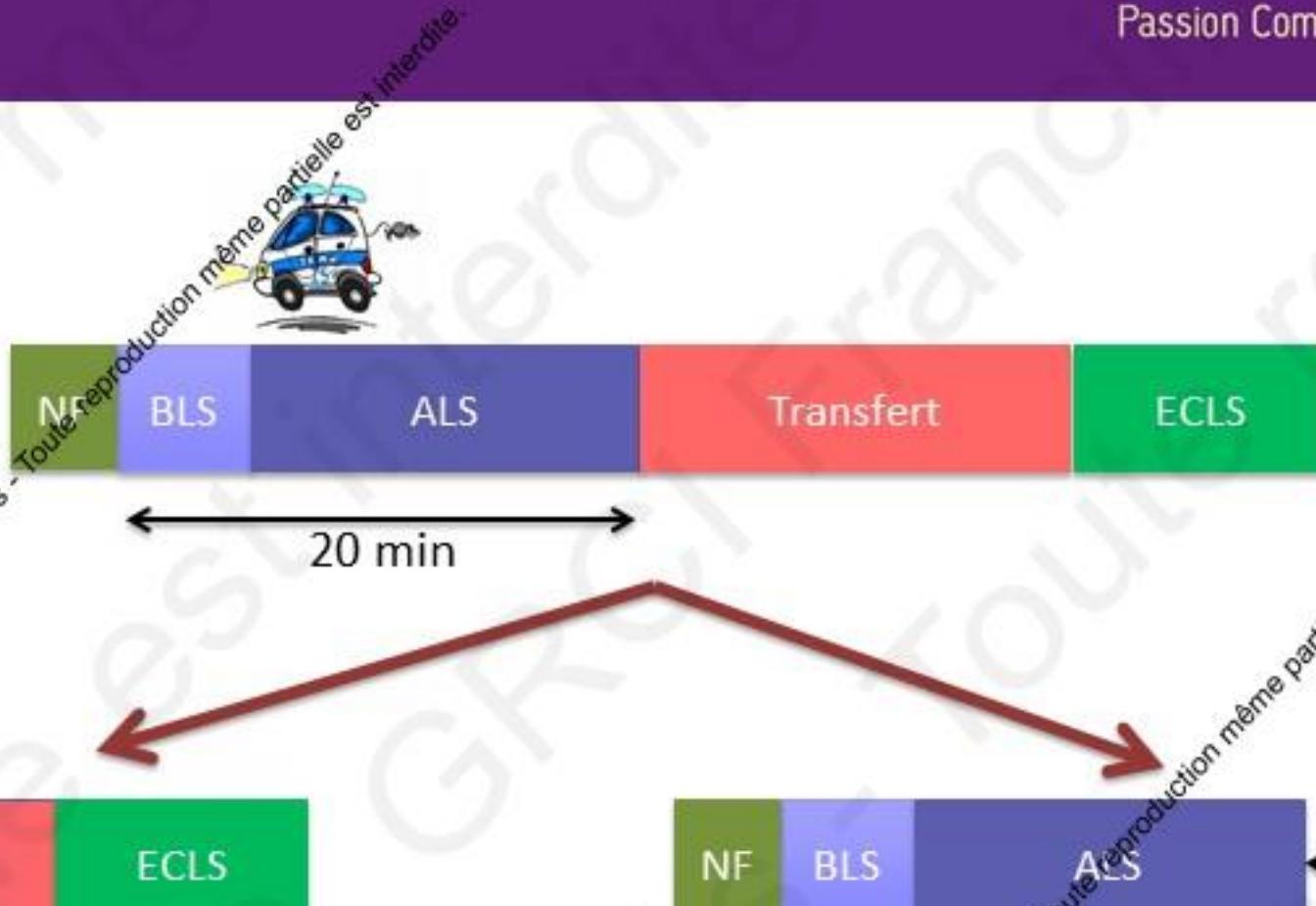


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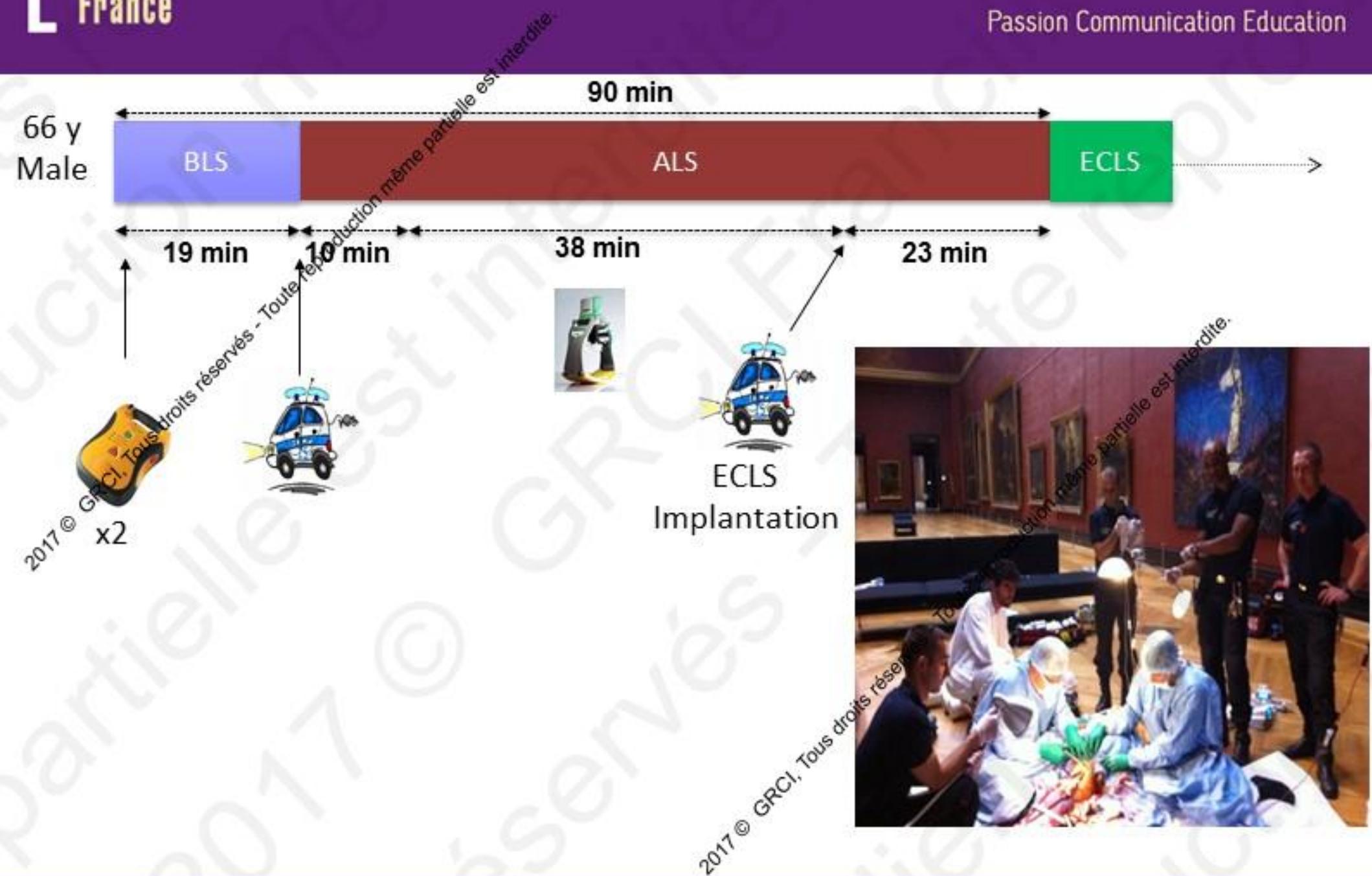


Pre-hosp vs In-hosp ECLS
28 times higher risk of mortality



SCOOP & RUN

STAY & PLAY

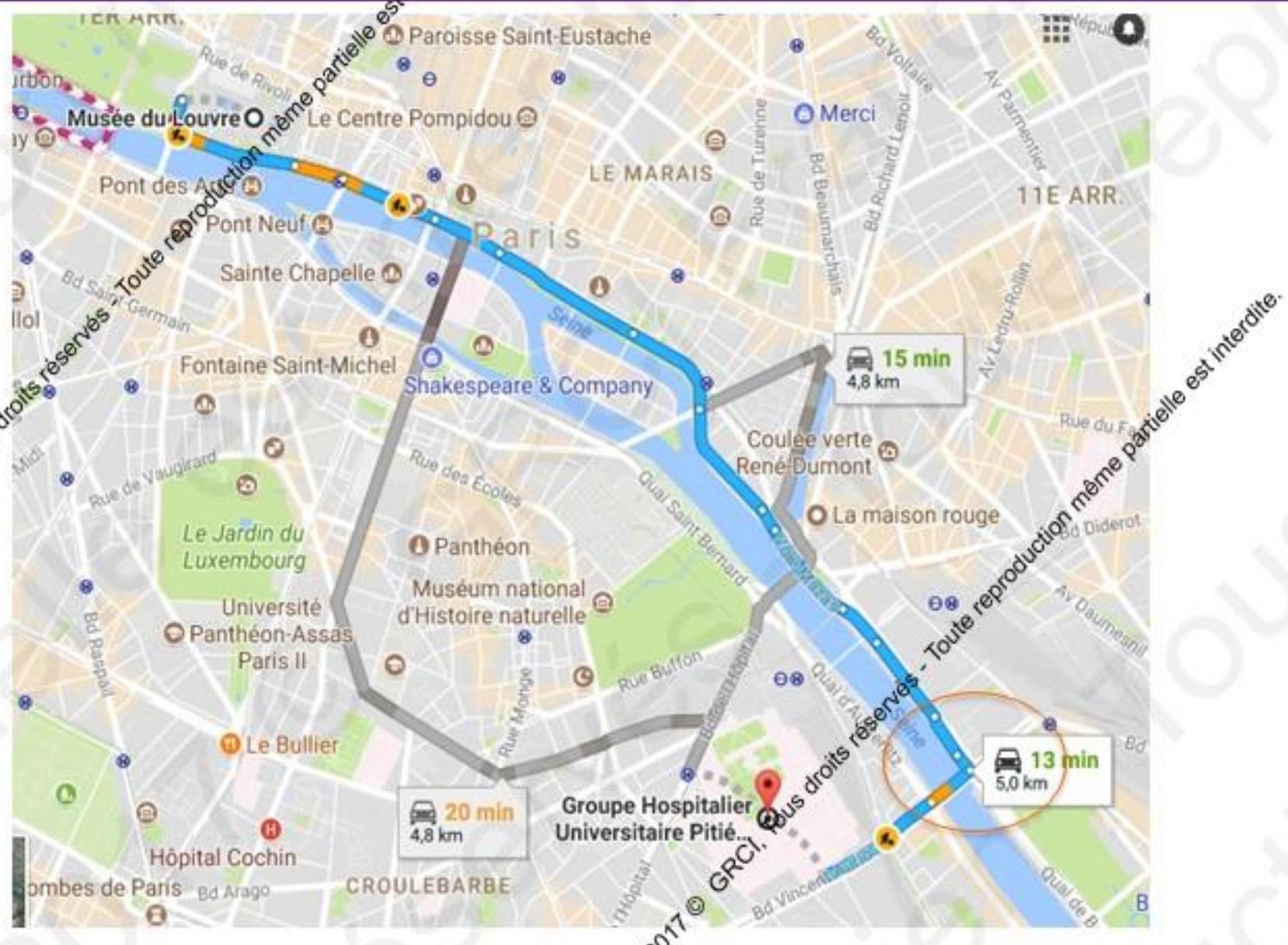


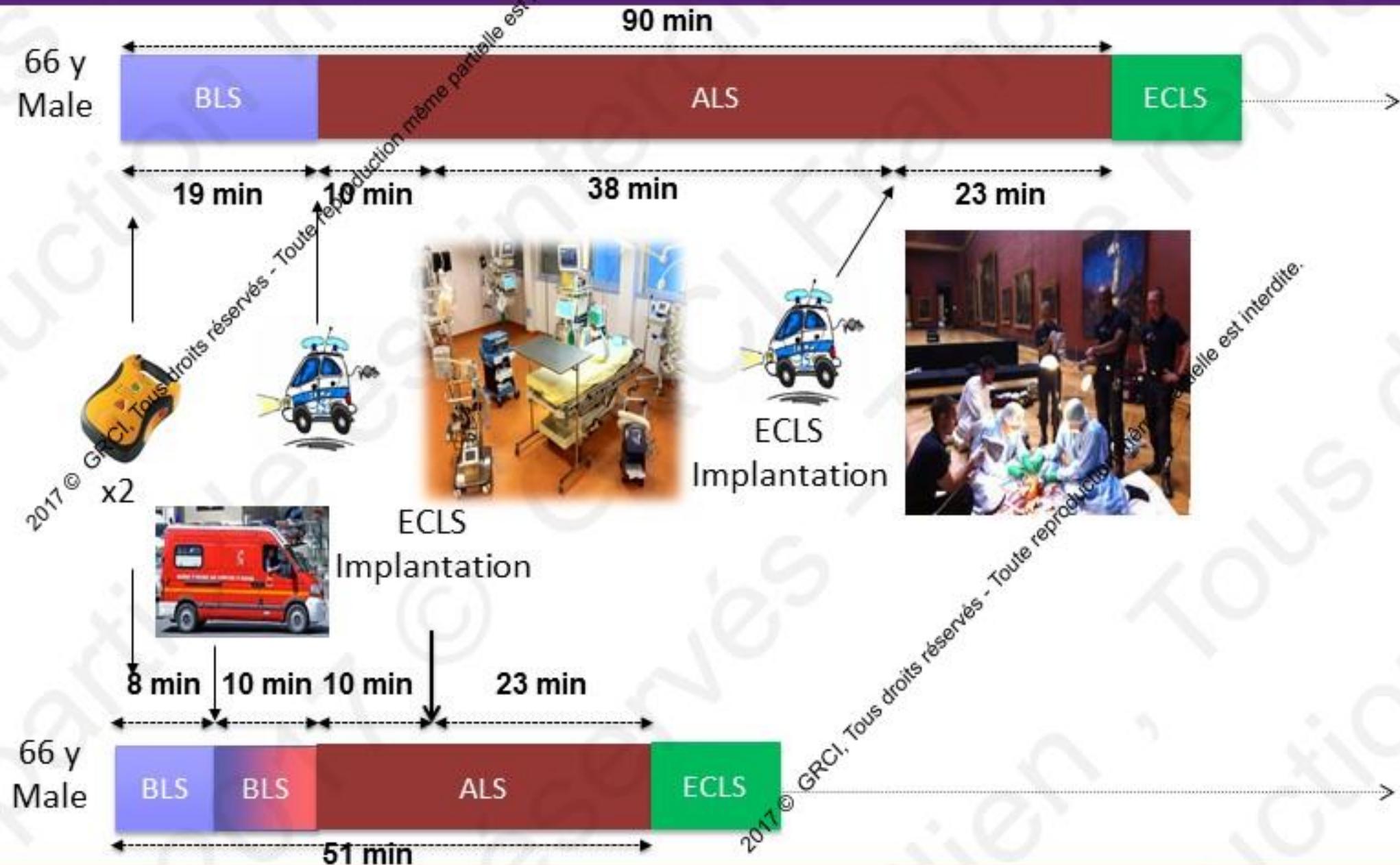
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Quand proposer ECMO? Restons raisonnables

- Cause réversible
- (Intoxication, hypothermie)
- ACR devant témoin
- No flow <5 min
- Rythme choquable initial
- RCP >10 min et prévue <100 min
- ETCO₂ >10 mmHg
- **ECMO disponible dans temps raisonnable**

- Il faut savoir dire non
- Critères non remplis
- Comorbidités
- Décision de ne pas réanimer
- Age limite atteint...
65-75 ans?



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