

Soutien chirurgical en OPEX :

Un défi logistique

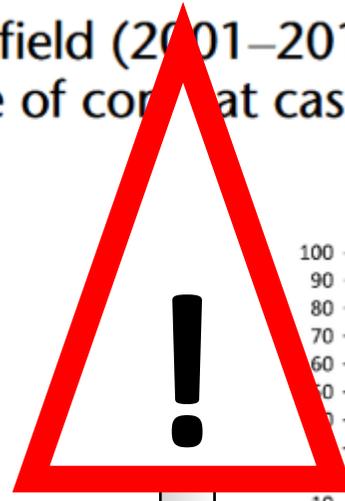
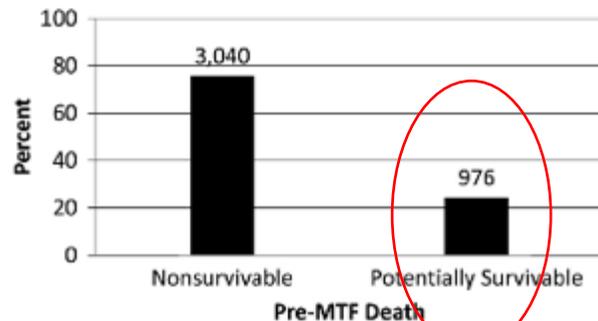
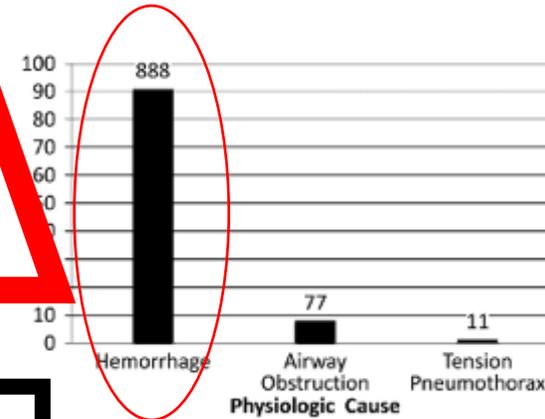
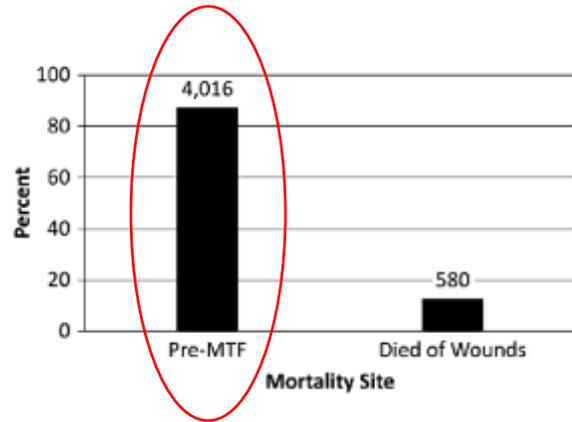
3 juin 2022

MP Henri de Lesquen

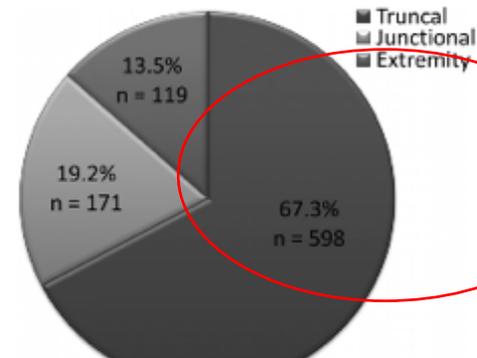
Chirurgie thoracique et
vasculaire
HIA Sainte Anne, Toulon



Death on the battlefield (2001–2011): Implications for the future of combat casualty care



**Severe
NCTH***



*NCTH = NON COMPRESSIBLE TORSO HEMORRHAGE

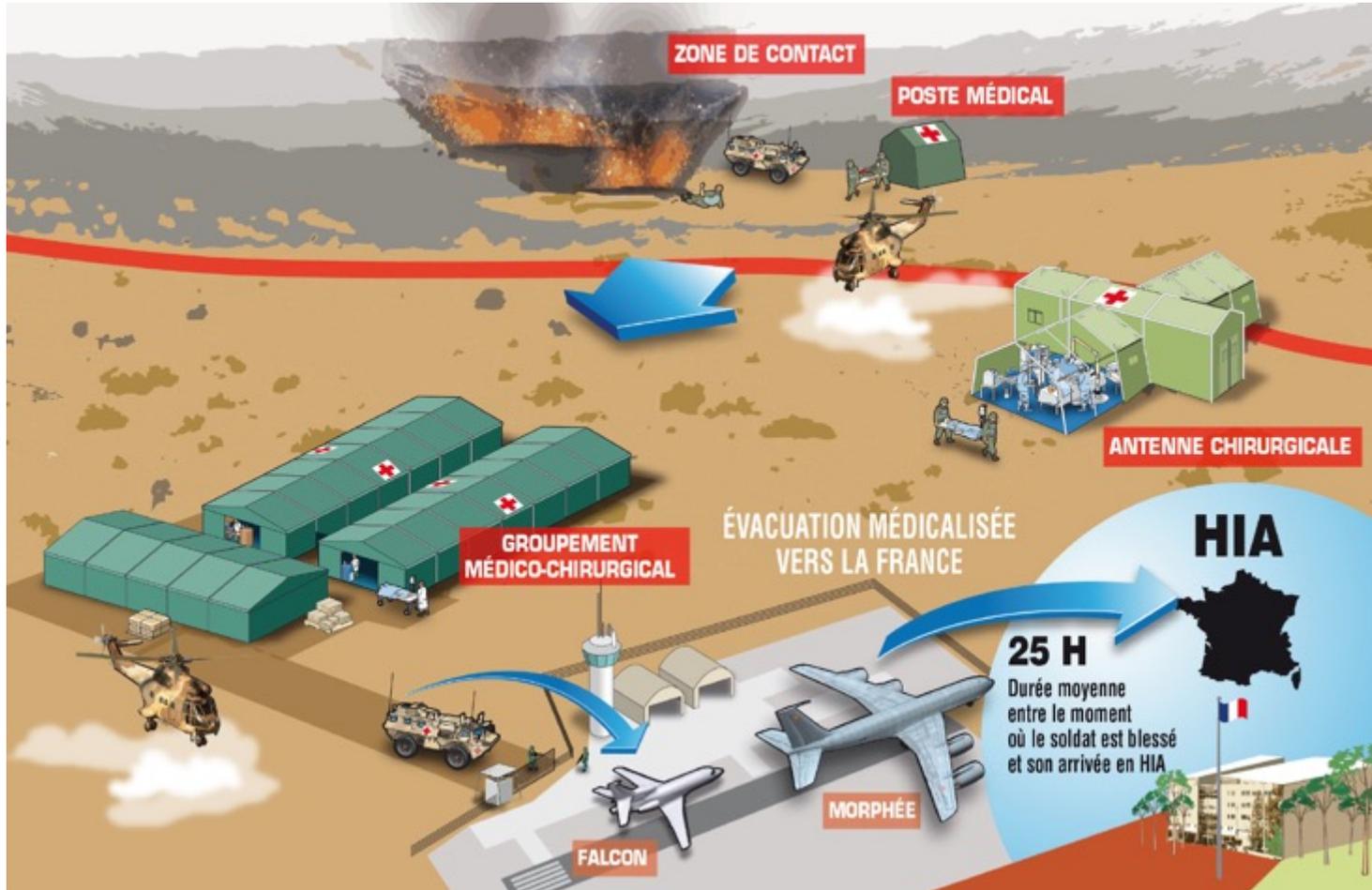
Original Investigation

The Effect of a Golden Hour Policy on the Morbidity and Mortality of Combat Casualties

Figure 1. Case Fa



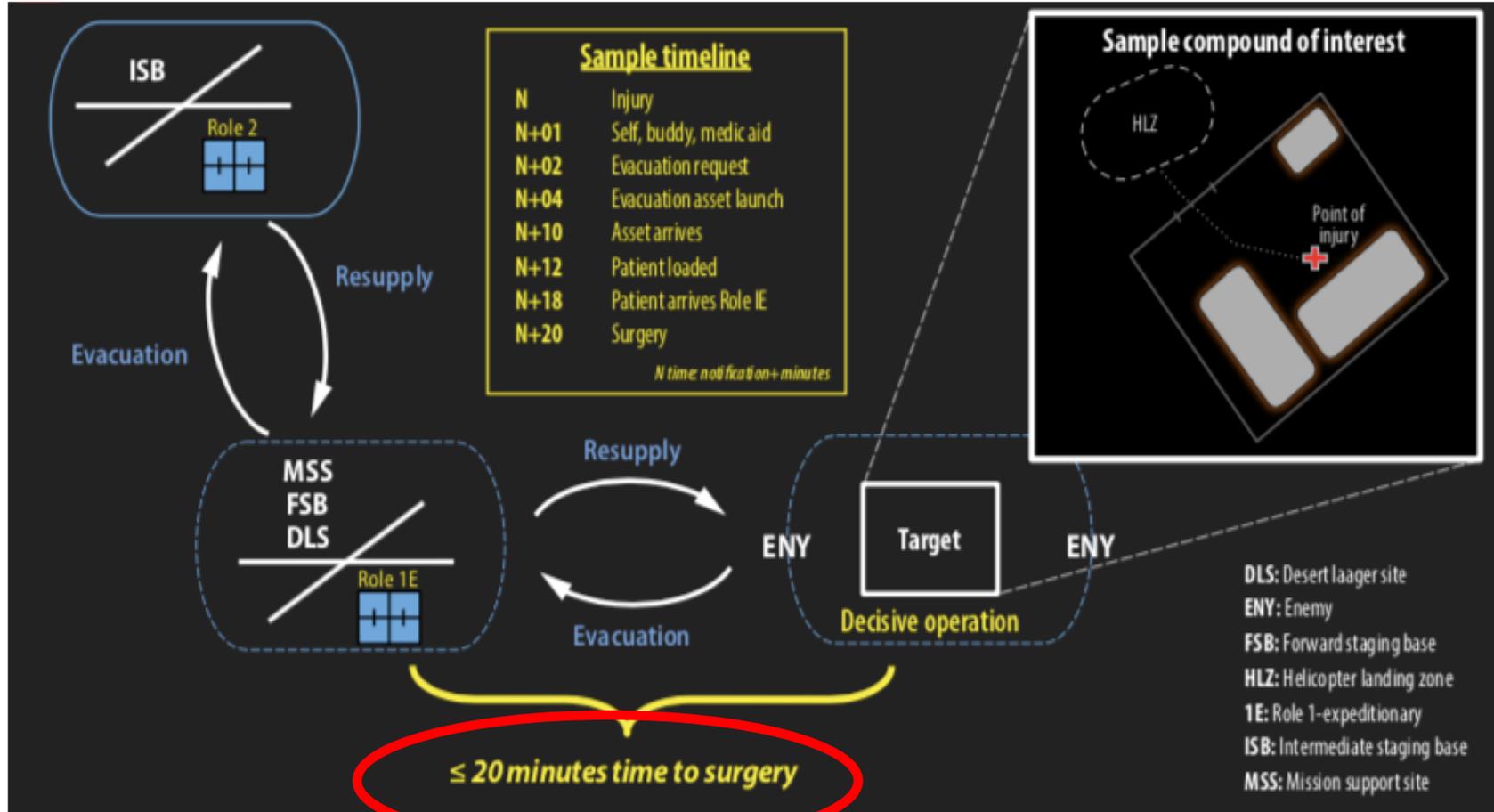
Principes fondamentaux du soutien



Chirurgicalisation de l'avant

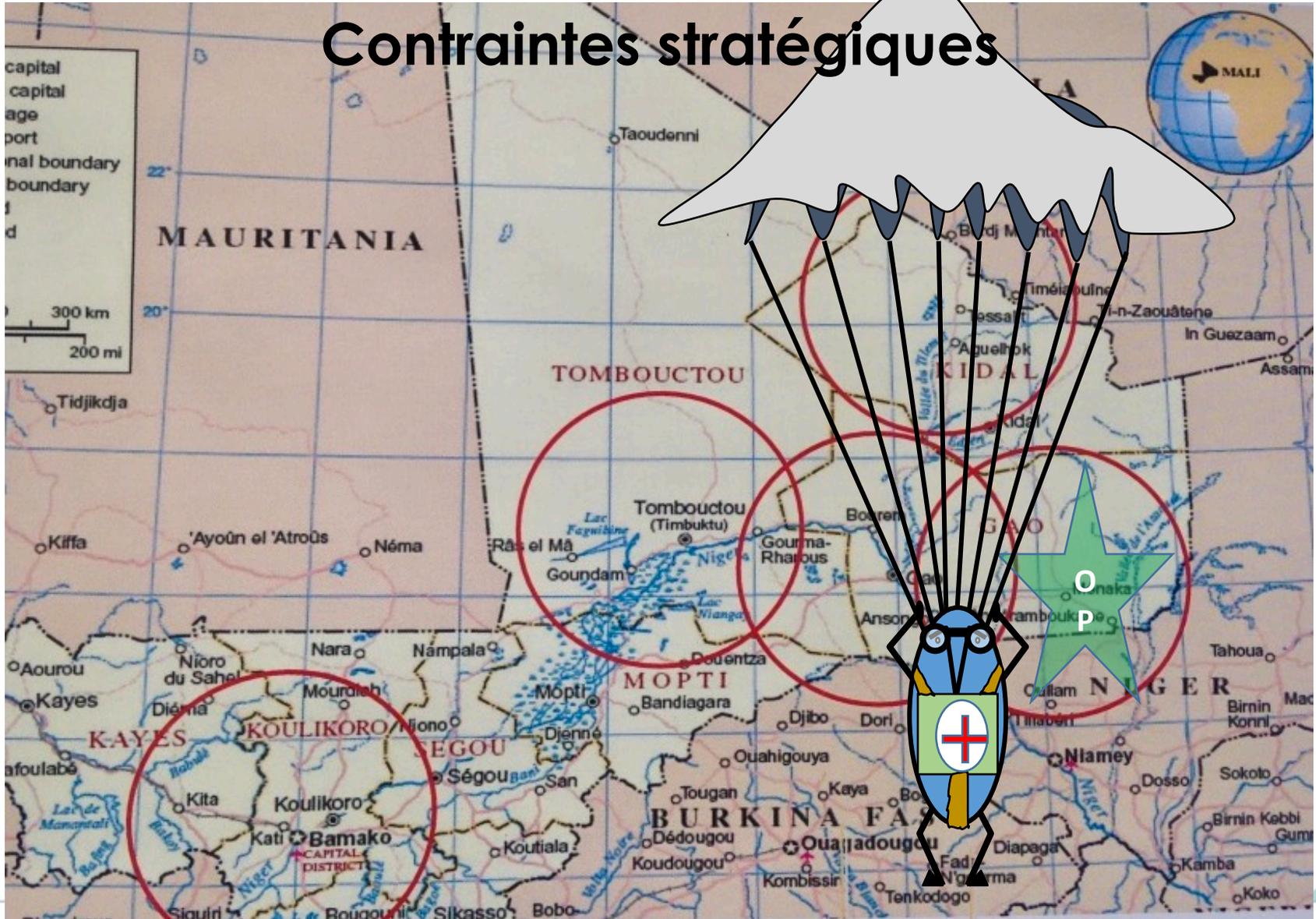
Évacuation précoce

Evolution doctrinale



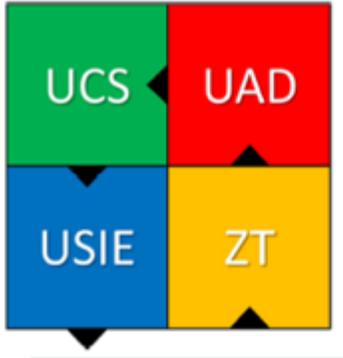
Death Ignores the Golden Hour The Argument for Mobile, Farther-Forward Surgery

Contraintes stratégiques





Antenne de Réanimation et de Chirurgie de Sauvetage

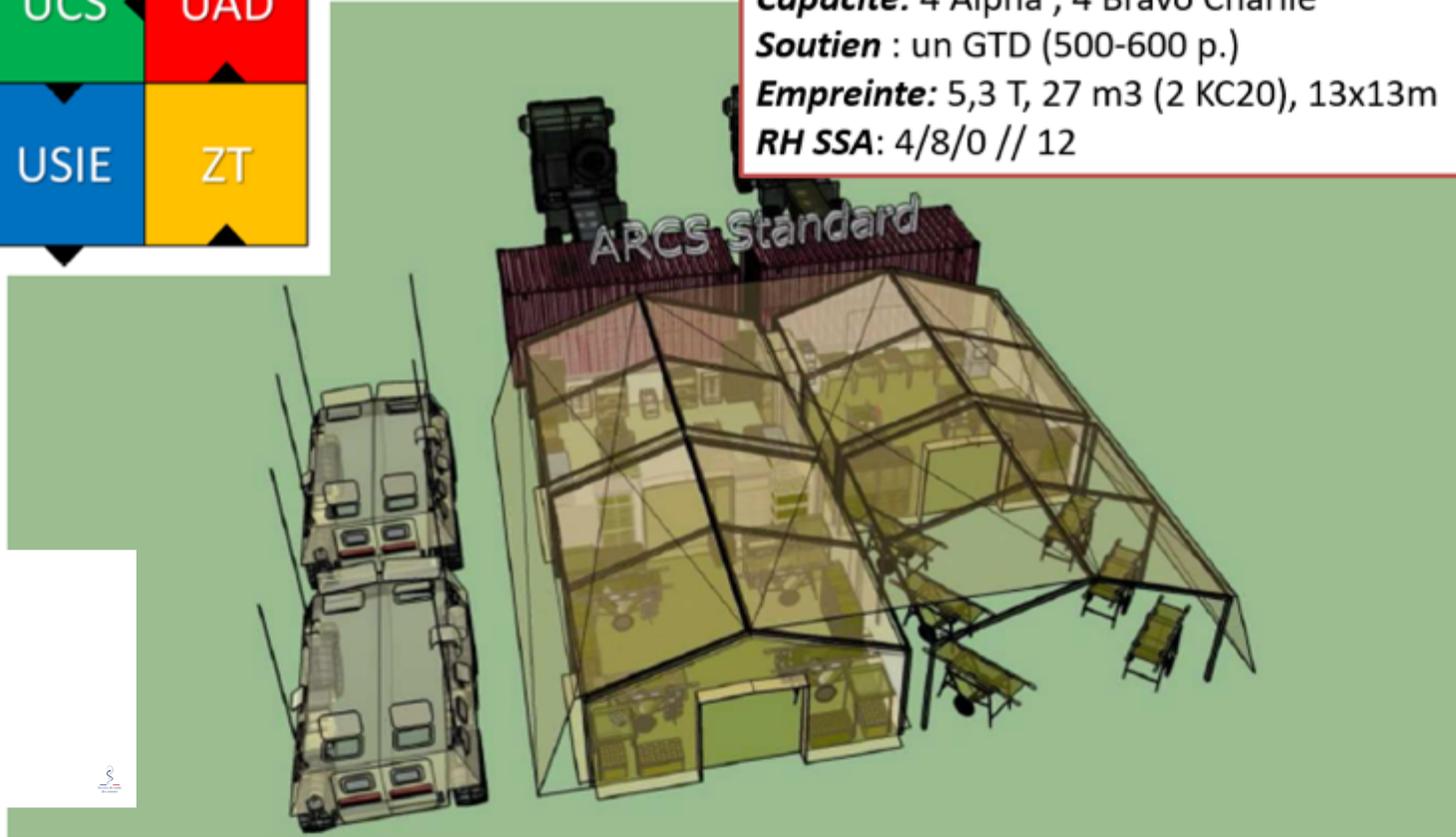


Capacité: 4 Alpha , 4 Bravo Charlie

Soutien : un GTD (500-600 p.)

Empreinte: 5,3 T, 27 m³ (2 KC20), 13x13m

RH SSA: 4/8/0 // 12



Capacités chirurgicales



Capacités chirurgicales

Abdominal/vascular procedures

Aortic cross-clamping during resuscitative laparotomy (thoracic or abdominal)

Simple ligation of any major vessel tear

Liver laceration packing

Small intestinal perforation stapling

Colonic perforation control with terylene tape

Arterial injuries shunted/ligated+ fasciotomy/cooling

Venous injury ligation or repair

Bladder ruptures catheterized and drained

Pancreatic bed leaks multiply drained

Peritoneal soilage copiously irrigated and contained

Abdomen temporarily and/or rapidly closed

Visceral compartment syndrome treated with plastic sheet or iv-fluid bag closure (Bogota bag)



Rotondo et al., *J Trauma*, 1993
Ramasamy et al., *Int J Care Injured*, 2010

Capacités chirurgicales

Thoracic procedures

Pulmonary tractotomy

Circum-hilar rotation for
lung haemorrhage control
En-masse lobectomy

Skin staple closure of
cardiac wounds
En-masse closure of chest
wall muscles
Patch closure of thoracic wounds
(using an iv fluid bag)
Rapid emergency thoracotomy

Non-anatomically stapled
lung resection



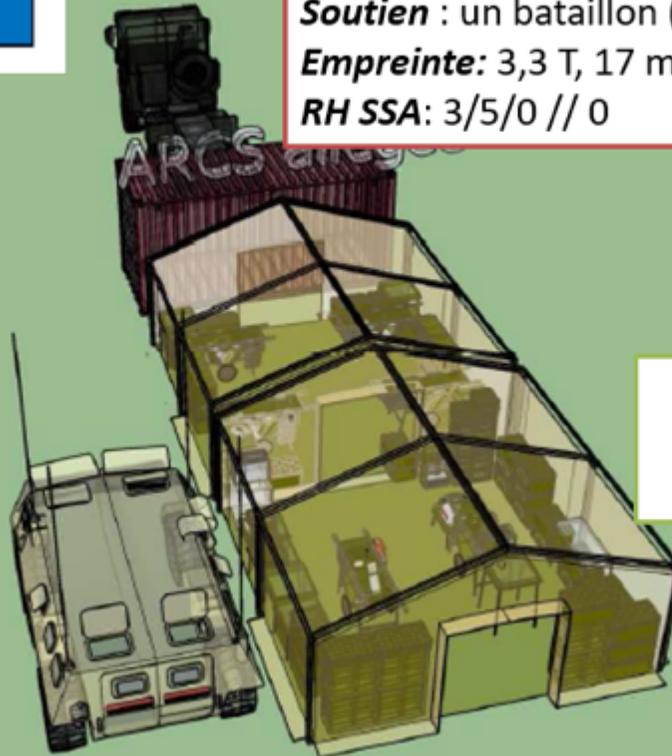
Rotondo et al., *J Trauma*, 1993

Ramasamy et al., *Int J Care Injured*, 2010

Antenne de Chirurgie de Sauvetage



Capacité: 2 Alpha , 2 Bravo Charlie
Soutien : un bataillon (300-400 p.)
Empreinte: 3,3 T, 17 m3 (1 KC20), 6,5x13m
RH SSA: 3/5/0 // 0



= ACV



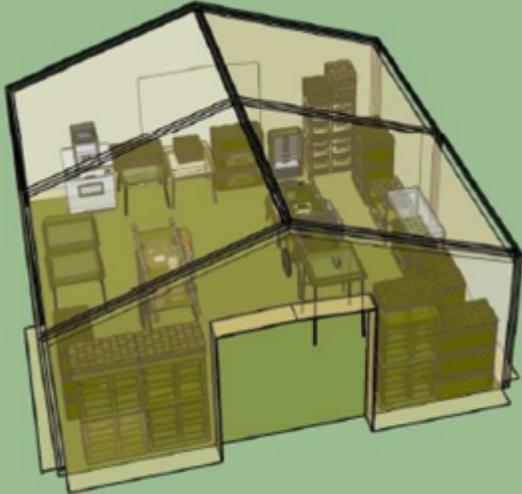
Module de Chirurgie de Sauvetage

UAD UCS

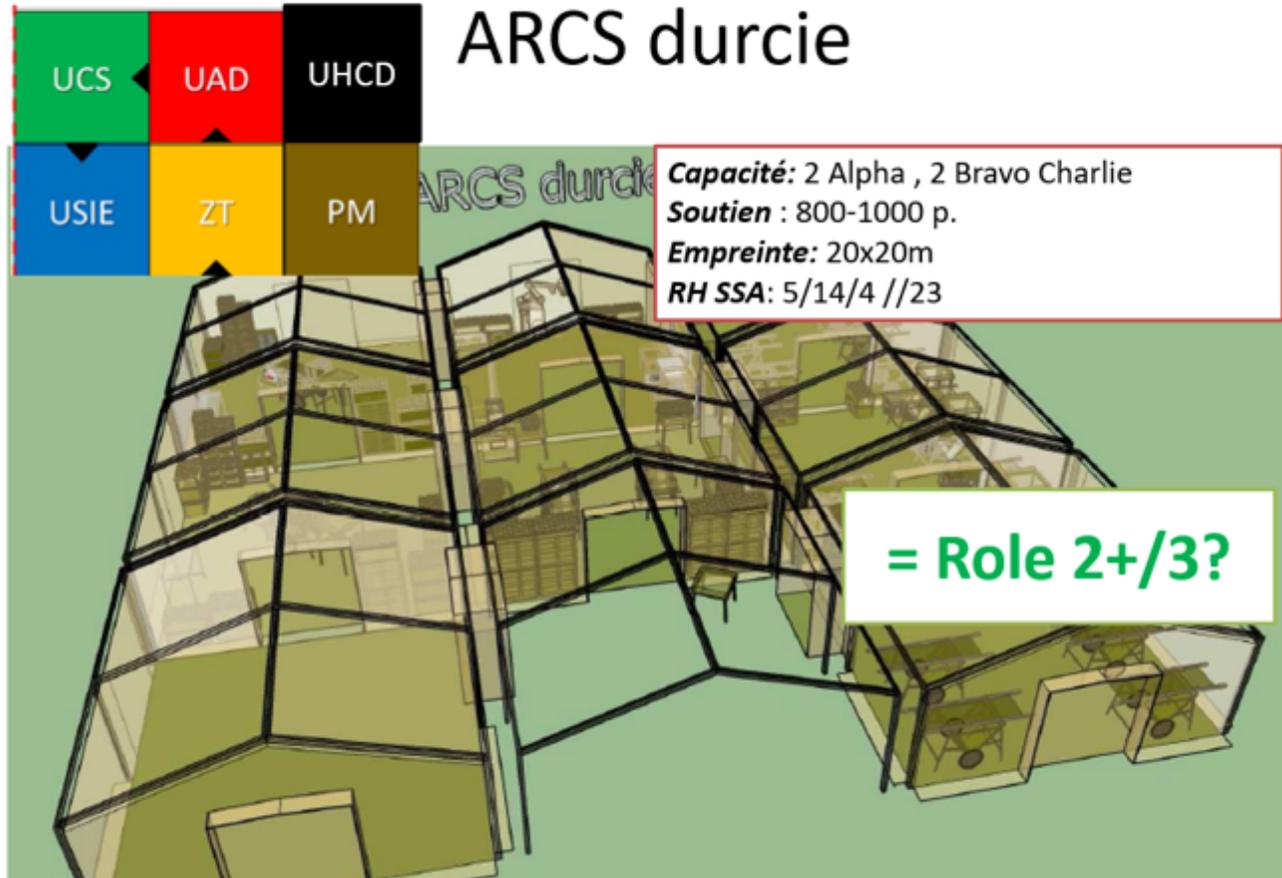
ARCS Ultra-

Capacité: 2 Alpha , 2 Bravo Charlie
Soutien : un détachement 80-100 p.)
Empreinte: 1,9 T, 10 m3, 6x6 m
RH SSA: 3/2/0 //5

= LCV

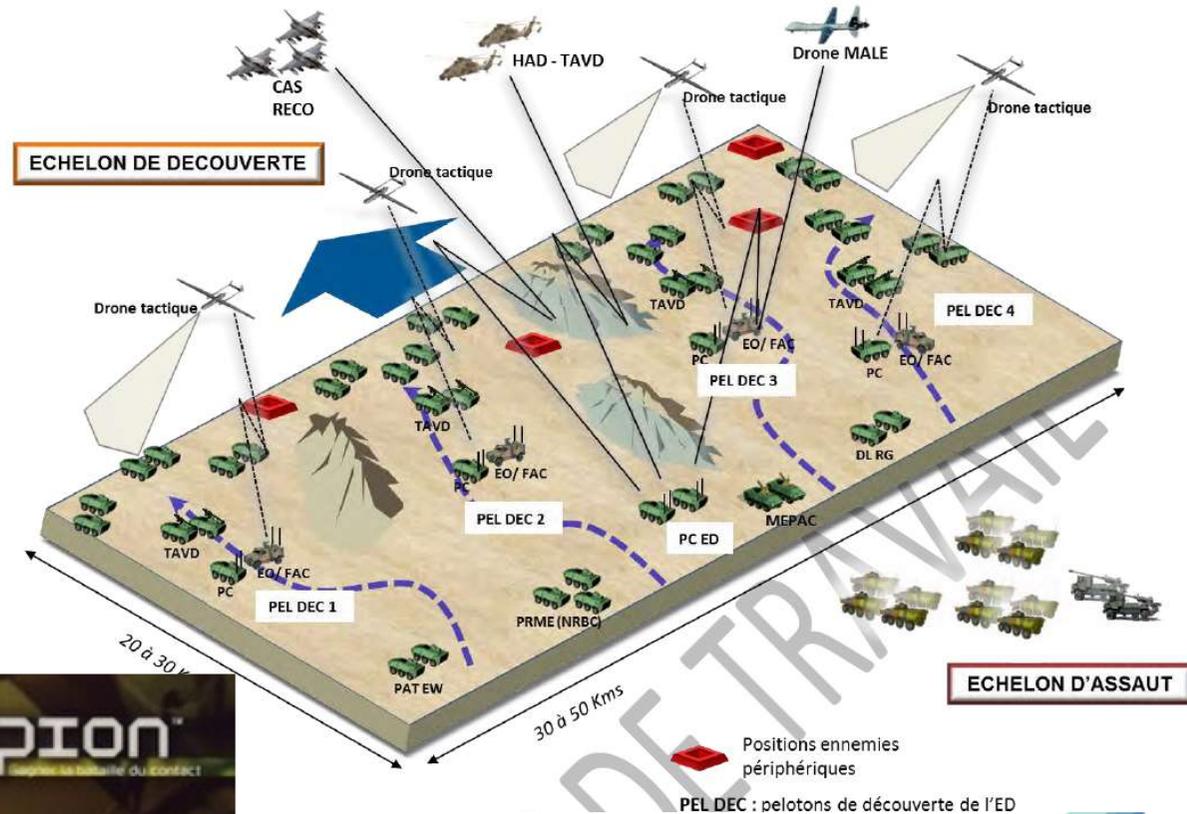


Groupement Médico-chirurgical



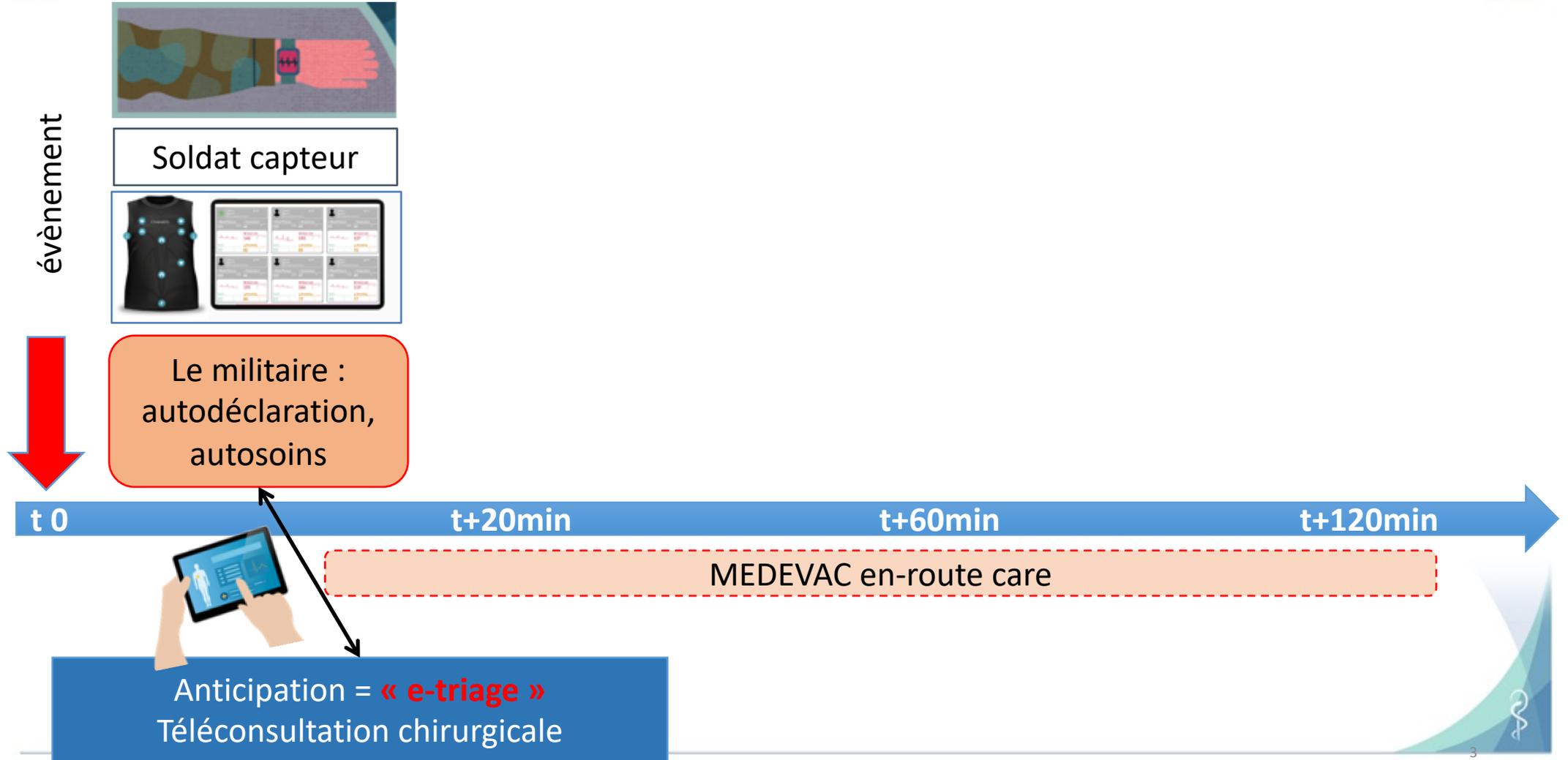
Perspectives stratégiques 2030 : SCORPION

- Programme SCORPION
 - Décentralisation du système
 - Autonomie des unités
 - Extrême vélocité des unités
 - Mobilité
 - Info-valorisation du théâtre
 - Flux de données

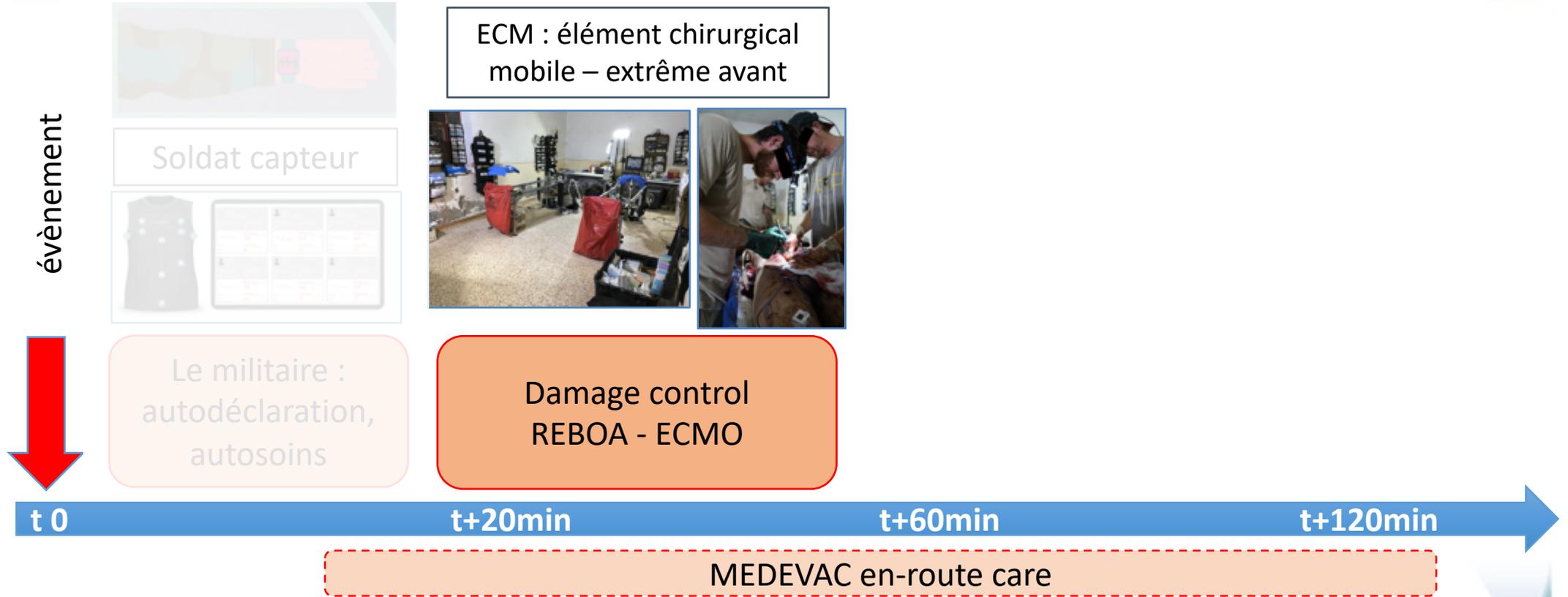


Synergie du Contact Renforcée par la Polyvalence et l'Infovalorisation

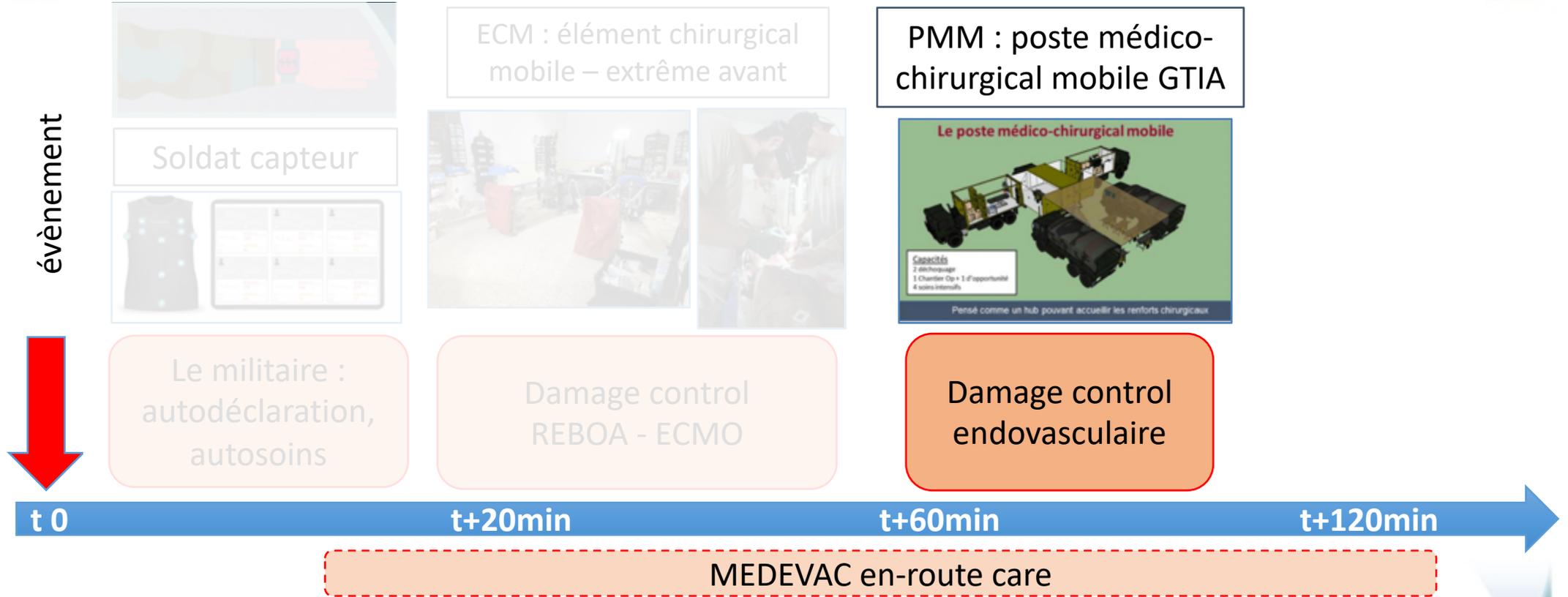
Infovalorisation et chirurgie : e - triage



Chirurgicalisation de l'extrême-avant



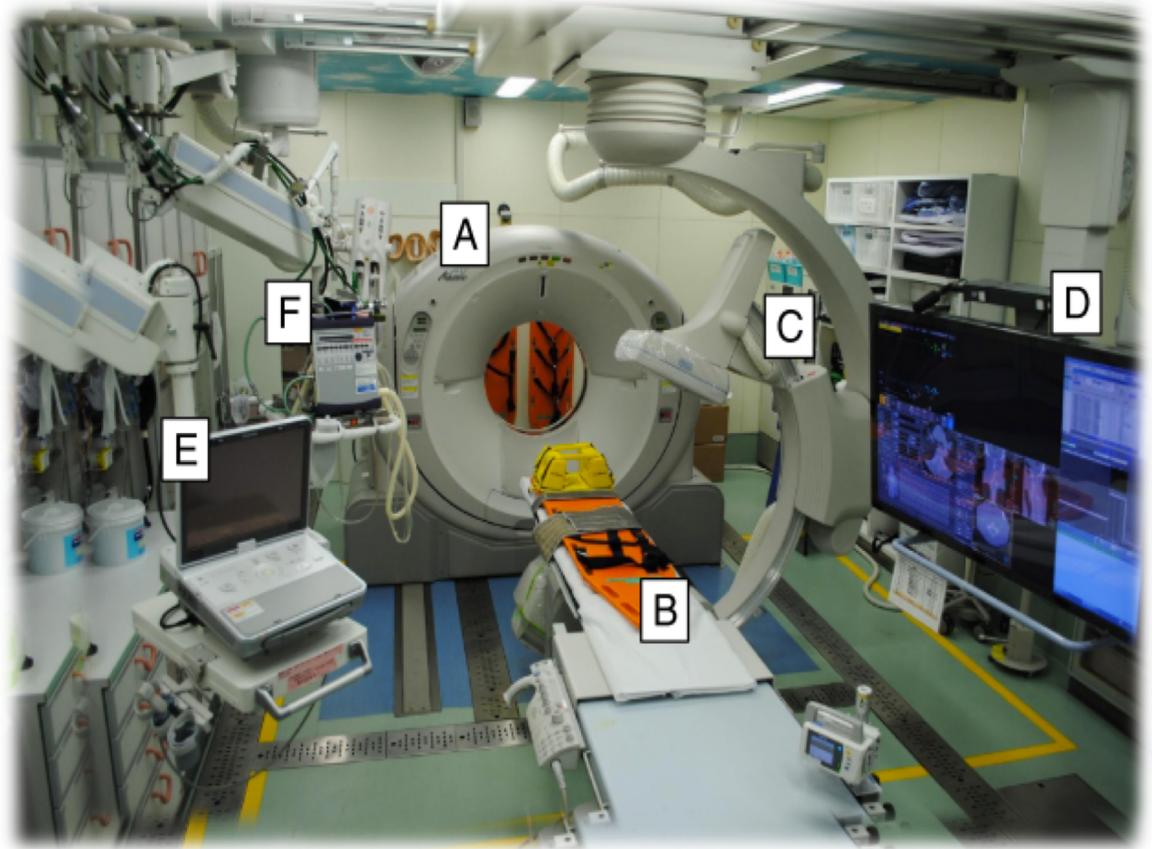
Rôle 2 augmenté



Rôle 2 augmenté

Salle HYBRIDE « tout en 1 »

- salle de déchocage
- Scanner
- table opératoire
- système de radio-interventionnel.



Du relevage à la réhabilitation

événement



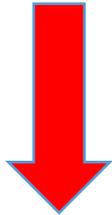
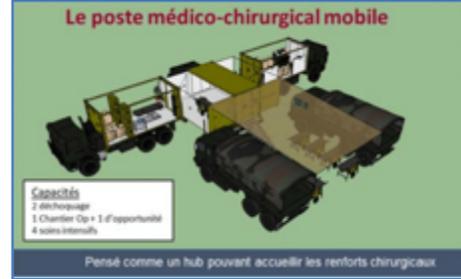
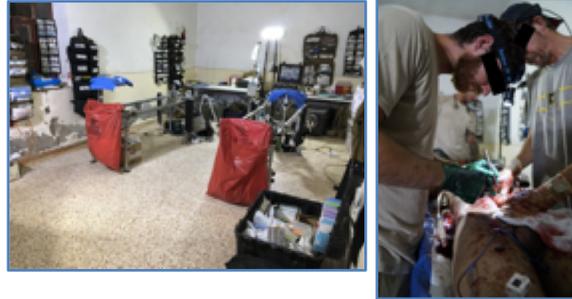
ECM : élément chirurgical mobile – extrême avant

PMM : poste médico-chirurgical mobile GTIA

GMC-A

HMC

Soldat capteur



Le militaire :
autodéclaration,
autosoins

Damage control
REBOA - ECMO

Damage control
endovasculaire

Hémostase
définitive
Réhabilitation



MEDEVAC en-route care

Téléchirurgie

