





clear descriptions of what actually constitutes
mobilisation are lacking in nursing literature.
mobilisation are lacking in nursing when it
further, there is incongruence about when it, and to
should be used, who should perform it, and to
should be applied.
What extent it should be applied.
Intensive and Critical Care Nursing (20)

Early mobilization includes activities

Early mobilization includes activities such as sitting, standing and ambulation, as well as passive exercises, like range of motion exercises and ergometry

Journal of Intensive Care2016**4**:50

EM is the intensification and early application of the physical therapy that is administered to critically ill patients. EM may also include additional specific mobilization-enhancing interventions such as active mobilization of patients requiring mechanical ventilation and the use of novel techniques such as cycle ergometry and transcutaneous electrical muscle stimulation.

Hodgson et al. Critical Care 2013

Morris et al. and McWilliams et al. demonstrated reduced ICU LOS in response to earlier mobilisation, defined as sitting out of bed in a chair.

Australian Critical Care (2016)

Concept analysis revealed that mobilisation is defined differently by nurses and physical therapists and with varying activities applied without articulation of quantity, intensity, duration and frequency. Timing of when mobilisation should be initiated is also unclear.

Cos'e?



We defined "early" as the interval starting with initial physiologic stabilization and continuing through the ICU stay. This interval is early compared with activity that usually begins after ICU discharge. Crit Care Med 2007

## Times matter...

reports on the effectiveness mobilisation in medical ICU patients,30,38,39 early mobilisation during the first 3 days after admission to an ICU<sup>40</sup> is not typically implemented in surgical patients.<sup>12,13</sup>

Lancet 2016; 388: 1377-88

Our study suggests that early start of mobilisation was the key to success. A randomised controlled trial⁴ showed that even intensified physical therapy started a median 8 days after ICU admission was unable to improve overall patient outcomes (physical function, ICU hospital-free days, or discharge disposition).

ICU mobility intervention by physical therapists started after a median 8 days in the ICU did not result in improved functional independence.

The term "early" has yet to be defined, since However, the concept of 'early' rehab refers among the various studies, the onset of to a point in the patients' illness progression interventions may vary by as much as 1 week. rather than a measure of a specific number of Mobilization in the intensive care unit (ICU) is days. generally considered early.

Australian Critical Care (2016)

within the first 2 to 5 days of critical illness



#### **SCREENING DI SICUREZZA**

### IL PAZIENTE DEVE SODDISFARE TUTTI I SEGUENTI CRITERI: STABILITA' EMODINAMICA

- No segni di ischemia miocardica nelle ultime 24 h
- No aritmie in trattamento farmacologico nelle ultime 24 h

#### **ADEGUATA OSSIGENAZIONE**

- FiO2 ≤ 0,65
- PEEP < 12 cm H2O</li>

#### **VASOPRESSORI**

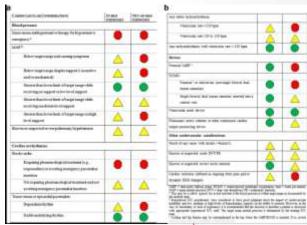
- No aumento di qualsiasi vasopressore nelle ultime 2 ore RISPOSTA ALLO STIMOLO VERBALE
- Il paziente risponde allo stimolo verbale

A priori we selected three criteria for initiation of activity including neurologic criteria, respiratory criteria, and circulatory criteria. The neurologic criterion to begin activity was patient response to verbal stimulation. Activity was not started in comatose patients. The respiratory criteria to start activity were FIO20.6 and positive end-expiratory pressure 10 cm H2O. The circulatory criteria to start activity were the absence of orthostatic hypotension and catecholamine drips.

# Safety criteria, not absolute contraindications

Expert consensus and recommendations on safety criteria for active mobilization of mechanically ventilated critically ill adults

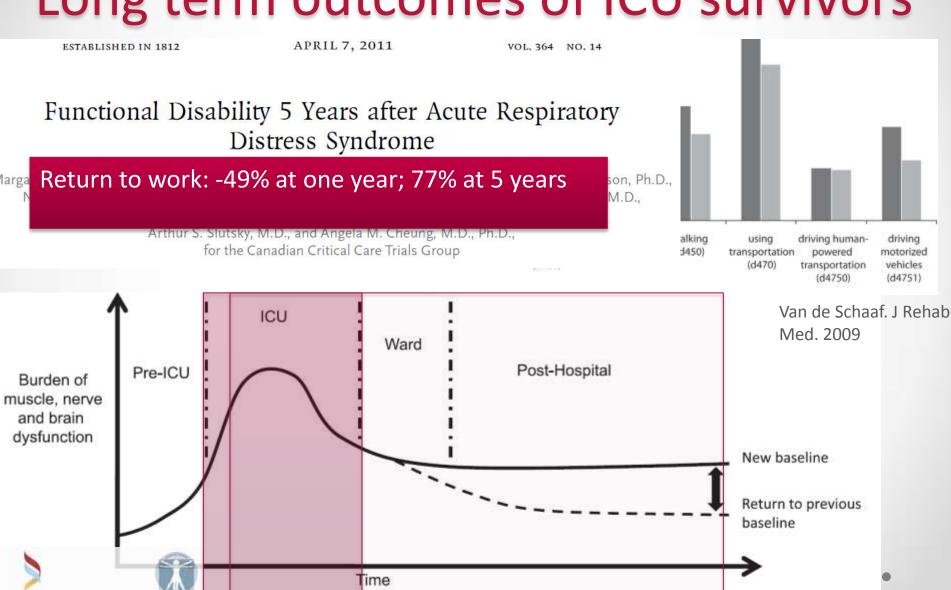
Critical Care 2014,





Crit Care Med 2007

# Si ma ...perché?!?!?! Long term outcomes of ICU survivors



# Early and PROGRESSIVE mob

Per i primi 3 livelli, i Passaggi da un livello all' altro, se tollerati, avvenSono anche nello stesso Siorno.

tollerati i Passaggi avvengono ogni 24 ore

Svegliati, respira e Cammina!! muoviti! Out of bed Out of bed 2 volte al 2 volte al giorno giorno Per i livelli 4-5-6, se Poltronone Poltronone Poltronone 2 volte al 2 volte al 2 volte al tollerato giorno giorno giorno Letto a Letto a Letto a Letto a poltrona x 30 poltrona x 30 poltrona x 30 poltrona x 30 tollerato min almeno 1 min almeno 1 min almeno 1 min almeno 1 volta/turno volta/turno volta/turno volta/turno Letto 60°x 30 min min min min min Almeno 1 Almeno 1 Almeno 1 Almeno 1 Almeno 1 volta/turno volta/turno volta/turno volta/turno volta/turno Letto 30°-45° Letto 30°- 45° Letto 30°-45° Letto 30°-45° Letto 30°- 45° Letto 30°- 45° Lateralizza Lateralizza almeno Lateralizza almeno Lateralizza almeno Lateralizza almeno Lateralizza almeno almeno una una volta a turno volta a turno Livello 1 Livello 2 Livello 3 Livello 4 Livello 6

Per ogni cambiamento posturale/attività attendere 5-10 min prima di determinare la tolleranza del pz Se il pz non tollera il livello attuale, torna al livello precedente e ritenta dopo 24 ore



#### An Environmental Scan for Early Mobilization Practices in U.S. ICUs

34% of ICUs reported hav-

ing a dedicated physical/occupational therapy (PT/OT) team for the ICU.

Barriers to EM were commonly cited and generally were concerns regarding safety, feasibility, financial support, and staffing.

Critical Care Medicine 2016

## No fkt, No Party?











Early Mobilization of Mechanically Ventilated Patients: A 1-Day Point-Prevalence Study in Germany\* Overall, only 24% of patients were mobilized out of bed during the 24-hour study period, with 55% having a mobilization level no greater than turning in bed and only 4% standing, marching, or walk-

No fkt, No Party?







## No fkt, No Party?



Intensive care unit mobility practices in Australia and New Zealand: a point prevalence study

Physiotherapists in Australia and New Zealand are part of the multidisciplinary team.

However, only

18% of all patients in the ICU walked and, for those staying in the ICU for >48 hours, this decreased to 13%.

In our study,

using our safety criteria, 15% more patients could have sat out of bed and 36% more could have walked.



## Come ci organizziamo? Cosa e chi ci serve?

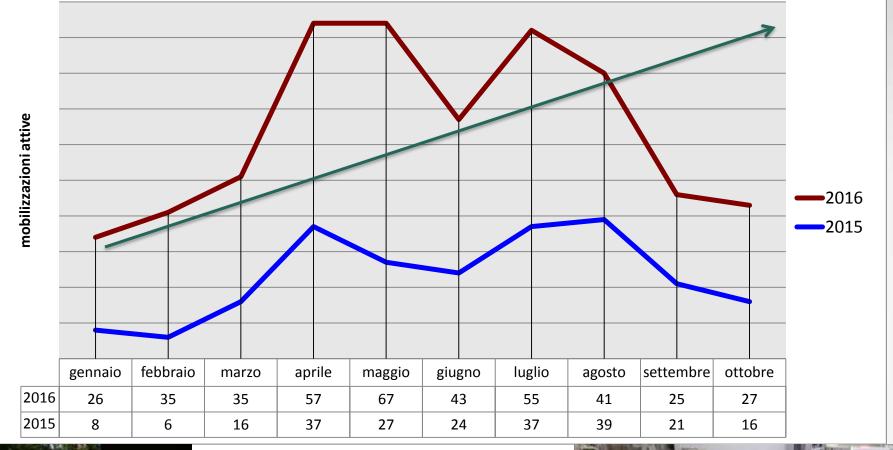


## Sicurezza!

- 1. Scegli il momento giusto per il paziente e per l'èquipe
- 2. Per deambulare 2 infermieri e un OSS o un parente
- 3. Minimo monitoraggio x la sicurezza
- 4. Act as a team and smile!









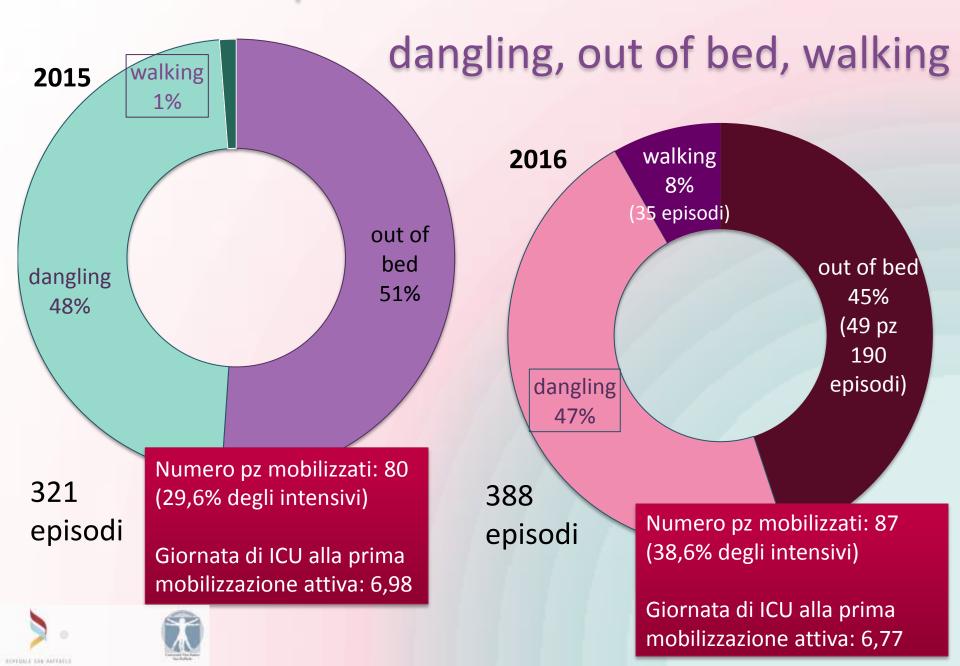
Confronto del numero di mobilizzazioni attive mensili 2015-2016







## Episodi di mobilizzazione attiva:





# Out of bed!

OUT OF BED in VAM 13 pz 42 episodi

2016



2015

Episodi out of bed:166

Pz out of bed: 52

Episodi di walking: 4, in VAM 2

PZ walking: 3, in VAM 1

OUT OF BED in VAM 8 pz 40 episodi Episodi OUT of bed: 190

Pz out of bed: 49

Episodi di walking: 35,

solo 6 in VAM,

PZ walking: 8







## Key messages

Quotidianamente valuta ogni paziente per la mobilizzazione!
Stimola e sostieni il team!
Non farti scoraggiare dalla poca tolleranza di qualche paziente.

Sii creativo e positivo! Monitora la tua attività.







@negroalessandra