

Team #9: End of Life Decision

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End of Life Decision is a constant topic of concerns in ICU

1. Characterize End of Life Decision

1. Type of ELD
2. Delays in occurrence
3. Mortality linked to ELD

2. Identify patient profile at risk of ELD in ICU

1. Risk factor for decision type
2. Score of ELD risk

3. Describe variation of ELD during ICU stay

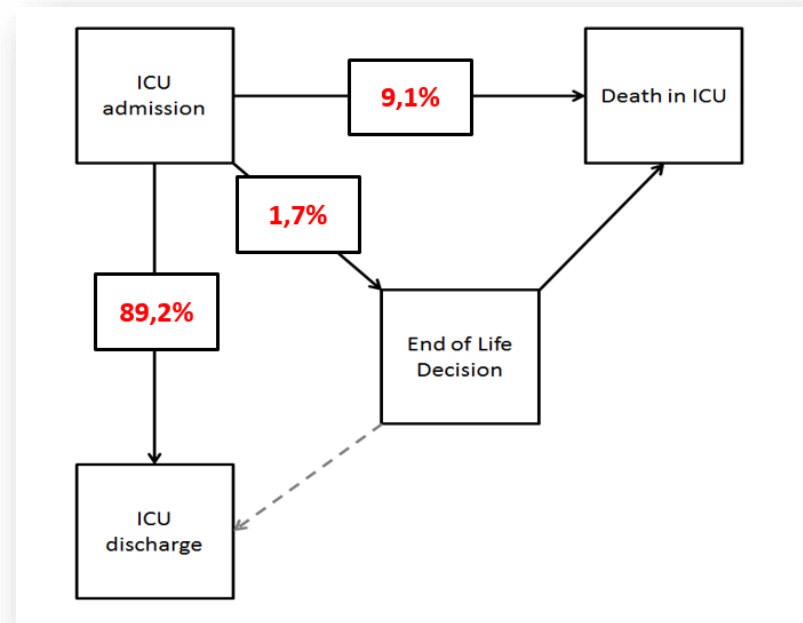
1. Occurrence decision change

- In MIMIC III ELD are identified with 5 different levels
 - ▶ Full Code: **No limitations**
 - ▶ DNR or DNI or DNI/DNR: **Withholding**
 - ▶ Comfort measures only : **Withdrawing**

- **Population of interest**

- *Adult patient (≥ 16 yo)*
- *No organ donors*

- ▶ 36646 patients
- ▶ 48241 ICU stay
- ▶ ICU mortality 10.8%

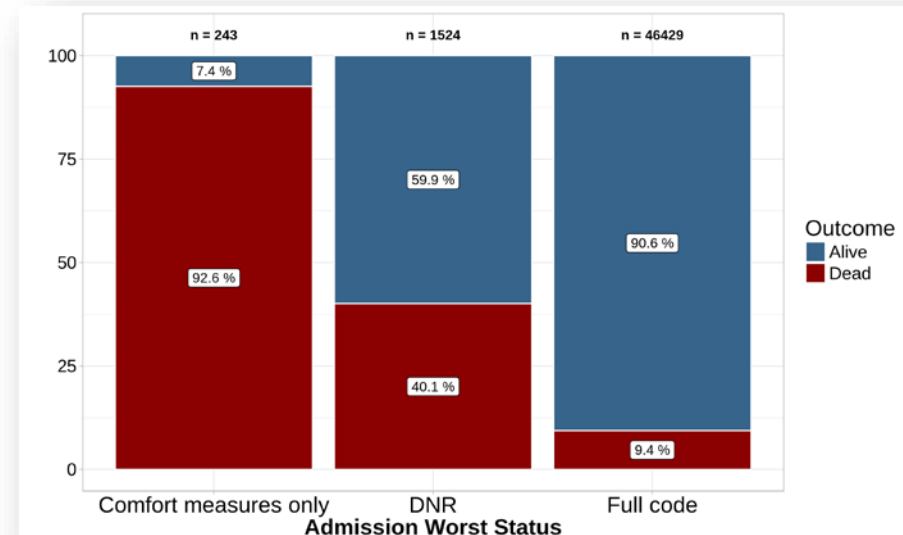


- Objectif 1: ELD type

- Worst decision for each ICU stay
- Consider that every patient were Full code at admission

	Full Code	Do not resuscitate	Comfort Measures Only
Frequency	46474 (96,3%)	1524 (3,2%)	243 (0,5%)
Median delay (hours)		42 [23 ; 138]	112 [47 ; 242]
ICU Mortality	4410 (9.4%)	611 (40%)	225 (92.6%)

ICU mortality with worst ELD

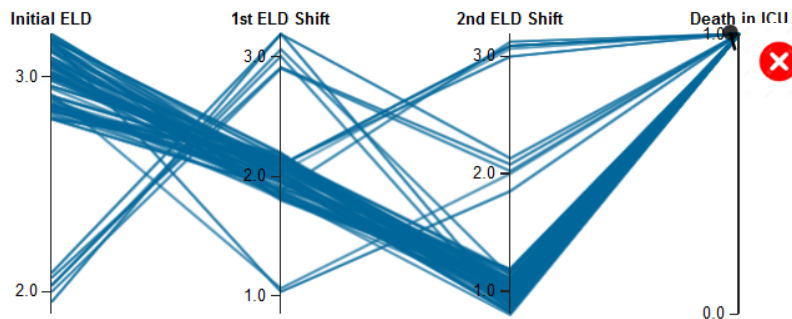


- Objectif 3: ELD variation during ICU stay

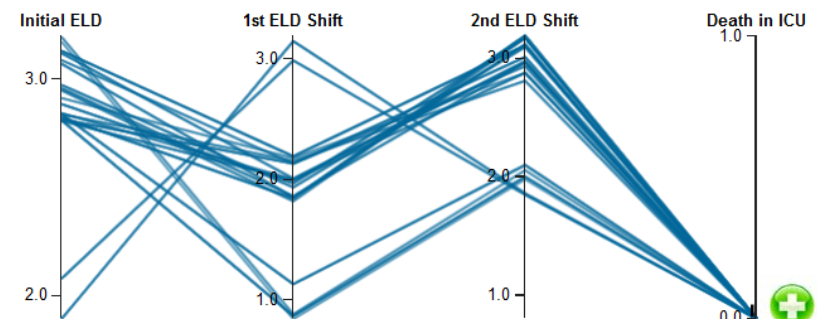
- Number of ELD change (n= 988)

- 1 change = 2 decisions n=854 (86%)
- 2 changes = 3 decisions n=117 (12%)
- 3 changes = 4 decisions n=15 (1,7%)
- 4 changes = 5 decisions n=2 (0,3%)

Variation for dead at discharge for ICU stay
with 2 changes



Variation for alive at discharge for ICU stay
with 2 changes



3 = Full Code || 2 = DNR || 1 = Comfort Measures



- **Scientific issues**
 - Discharge alive with CM code and readmitted in ICU
- **Limits**
 - Under estimation of ELD
- **Applications**
 - Identify patient at high risk of ELD occurrence
 - ELD admission score
 - Correlation between SAPS and ELD score
- **Perspectives**
 - Identify event that can explain cluster change (FC, DNR, CM)