

Team 7

Optimising sepsis resuscitation with patient-similarity metrics

January 20-21, 2018



Massachusetts
Institute of
Technology



SOCIÉTÉ
DE RÉANIMATION
DE LANGUE FRANÇAISE



UNIVERSITÉ
PARIS
DESCARTES

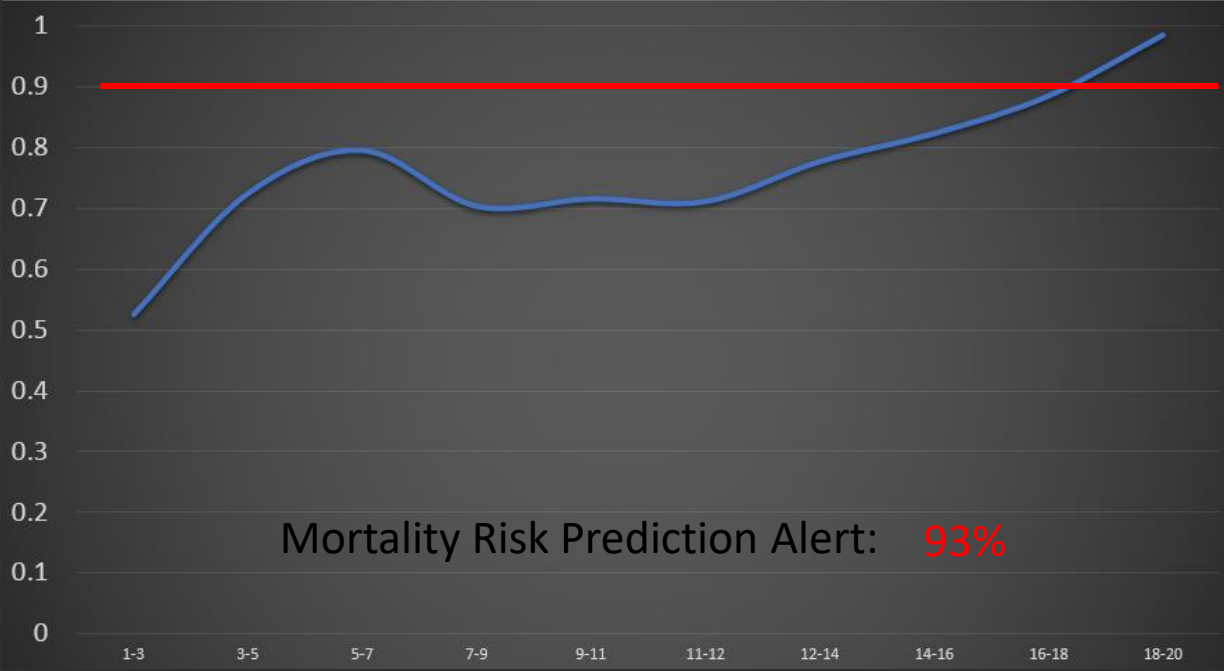
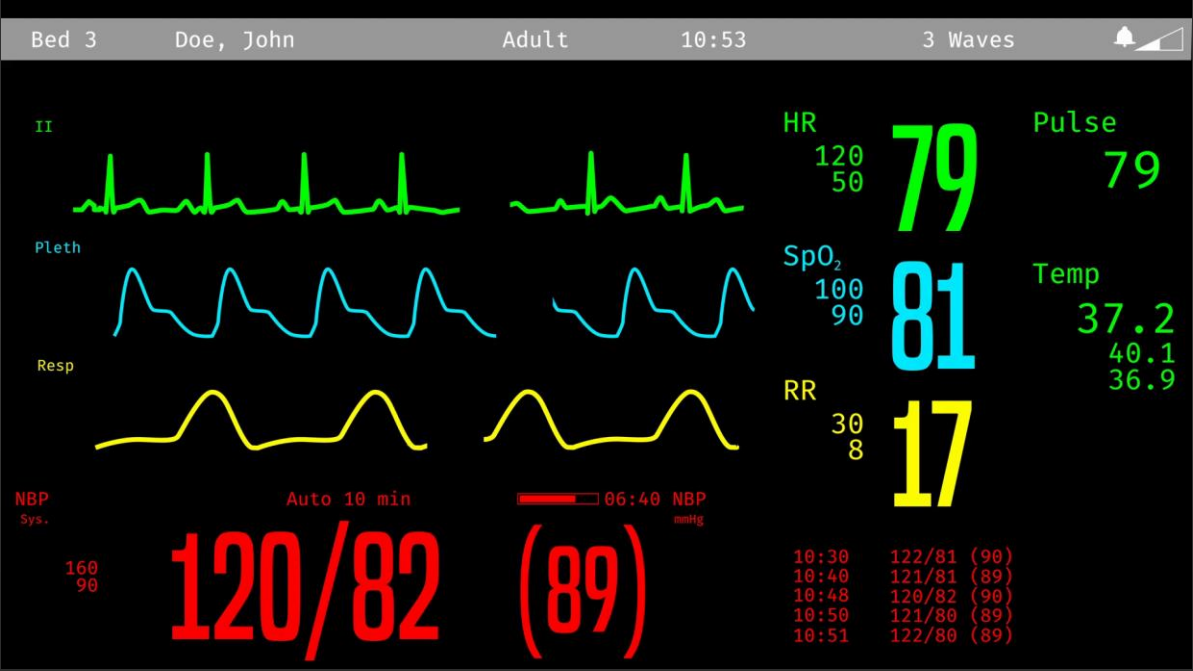
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Compare to Similar

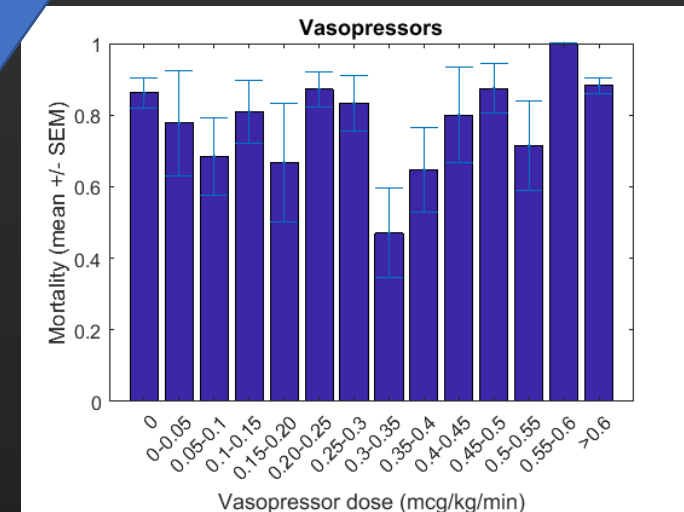
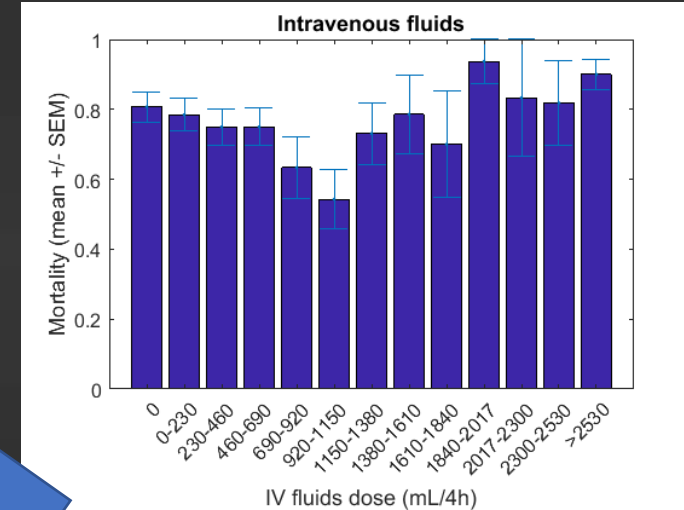
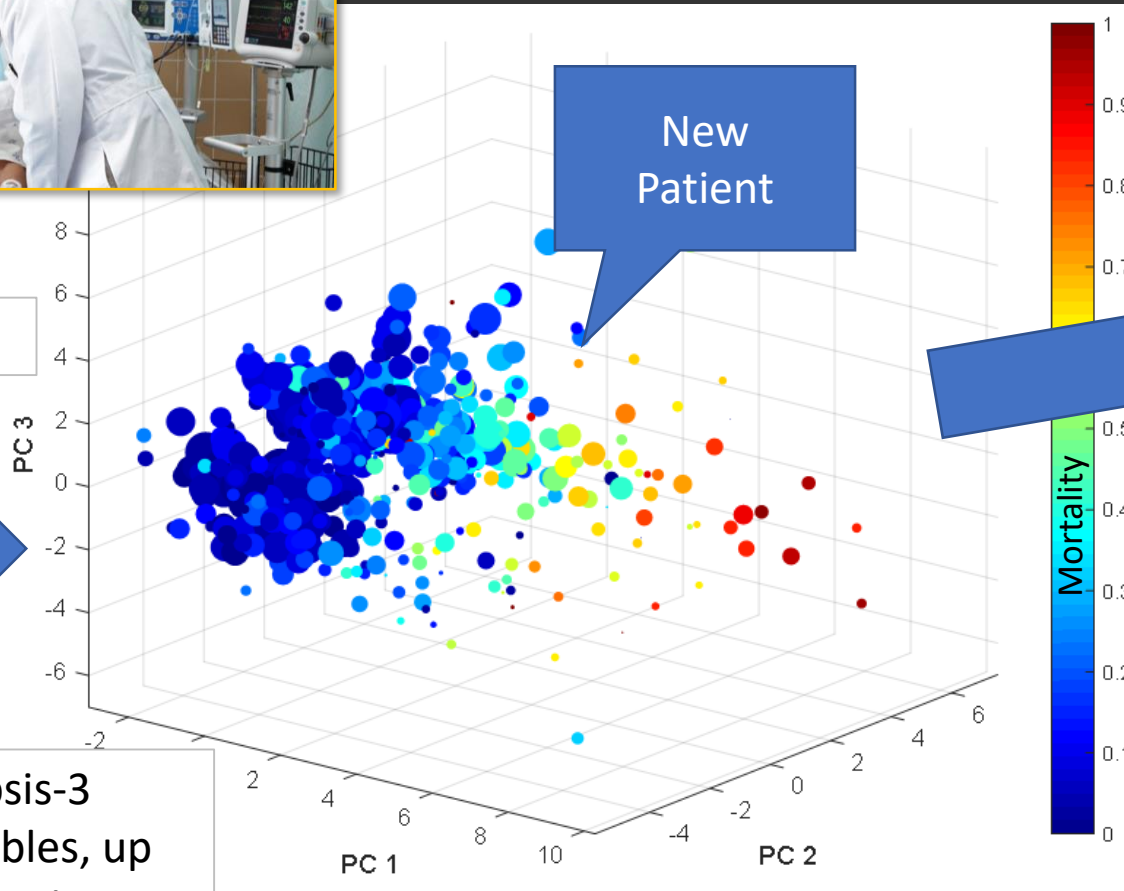
Informing optimal drug doses with similarity metrics



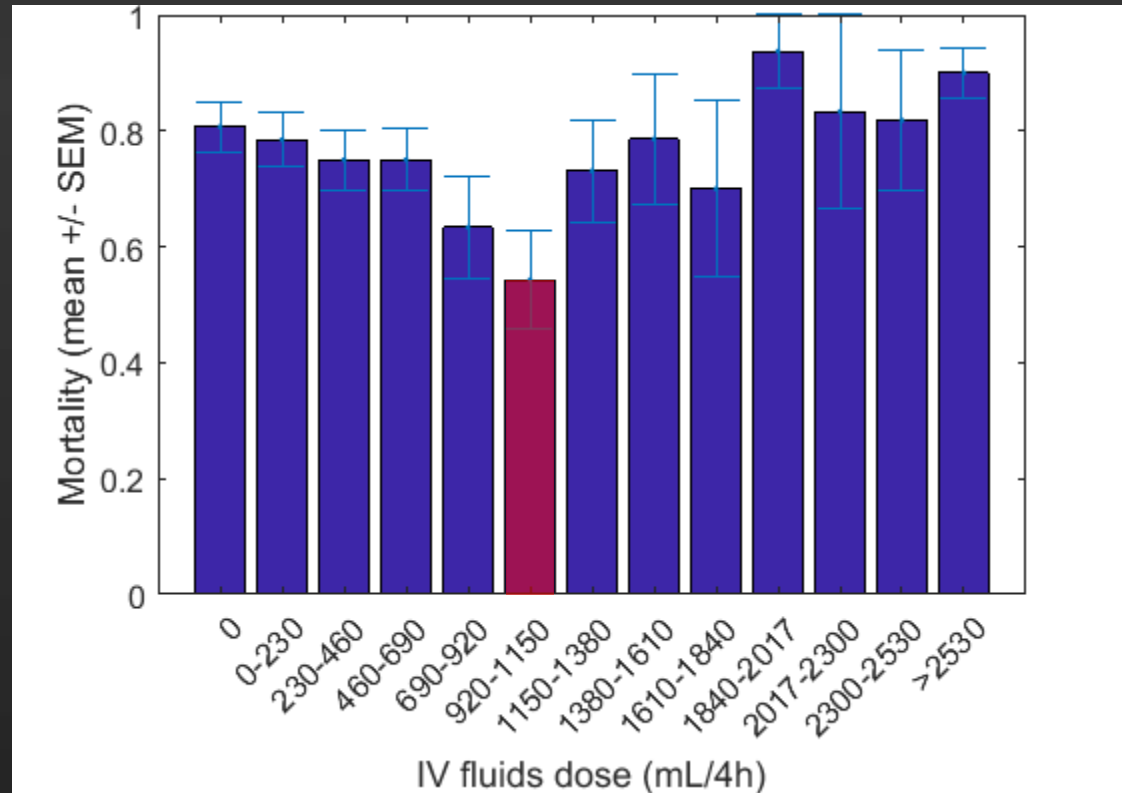
Patient features

Identification
of 500 k-nearest
neighbours

17,898 adults with sepsis-3
Time series of 60 variables, up
to 72h of data per patient



Fluid Dosage Recommendation:
 $\pm 1000\text{mL}/4\text{h}$



Vasopressor Dosage Recommendation:
 $0.30\text{-}0.35\text{mcg}/\text{kg}/\text{min}$

