Long-term effects of an automated delirium risk assessment tool

the impact of PIPRA one year later

Dr. Ben Dodsworth CSO





CONFLICTS OF INTEREST

Co-founder, employee & shareholder of PIPRA AG

Delirium decision support system

PIPRA: Pre-Interventional Preventive Risk Assessment



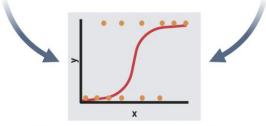
Surgery in older patients



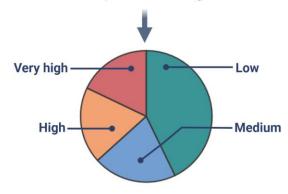


Training dataset: 2250 patients

Validation dataset: 359 patients



POD risk prediction algorithm



Patient POD risk stratification



Targeted clinical prevention

Setting

Swiss 335-bed hospital

12 months

surgical inpatients

non-cardiac

age 60+

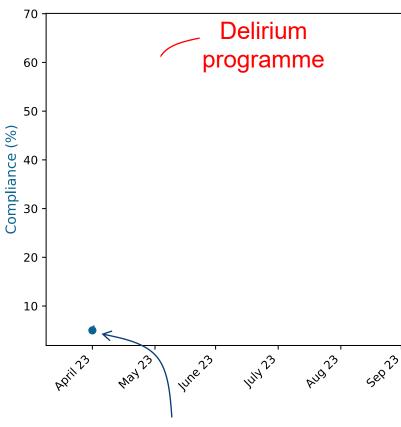
routine data

n= 4,670



Sound familiar?

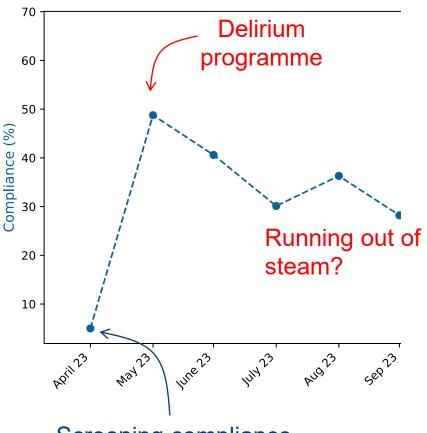




Screening compliance

Sound familiar?

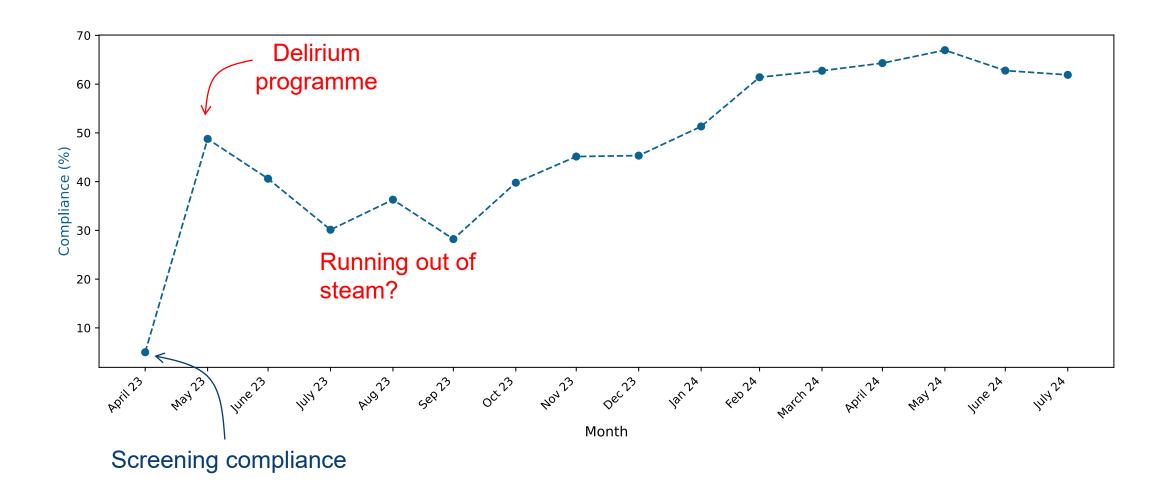




Screening compliance

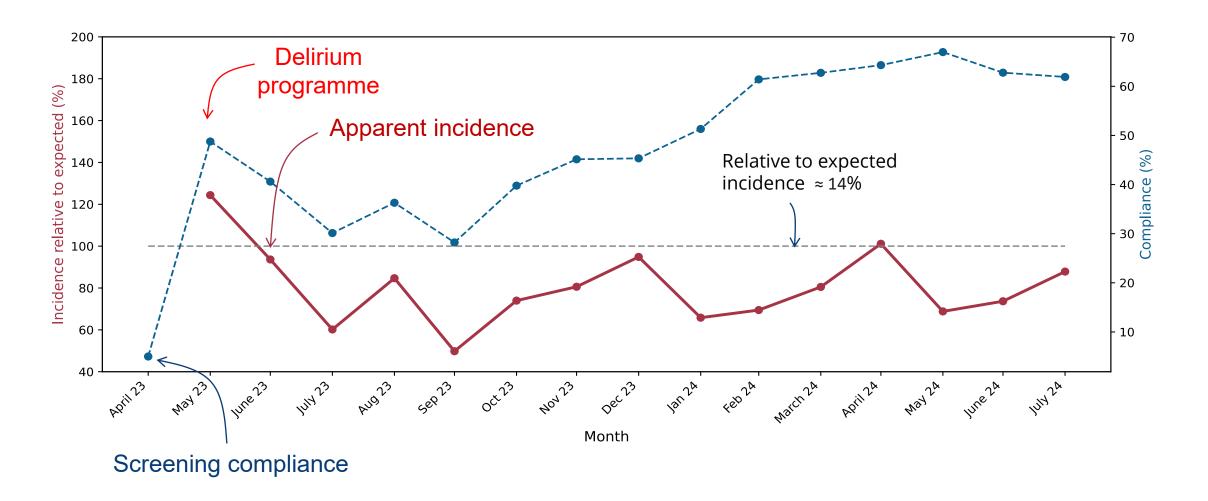
Sound familiar?





Outcomes





Outcomes Adjusted by model Poster 200 Ignore patients with low screening Apparent incidence Relative to expected incidence ≈ 14% 60

Month



MAZA

40

Outcomes



-31%

Delirium incidence

-0.65 days

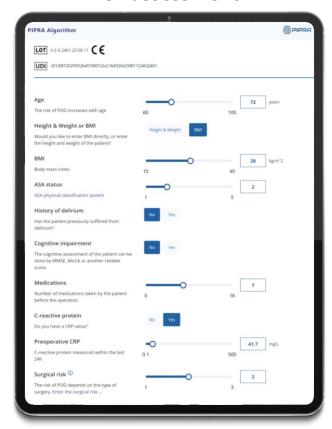
Average reduction in length of stay (LOS)

How did we do it?



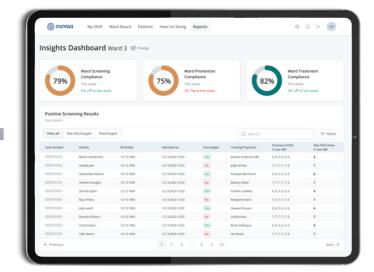
CORE

Al-based automated delirium risk assessment



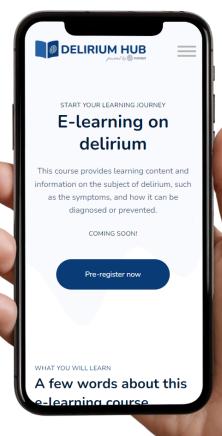
ADD-ON 1

Clinic-wide insights & compliance reporting



ADD-ON 2

E-Learning



Reporting Training

Risk Assessment

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What's next?

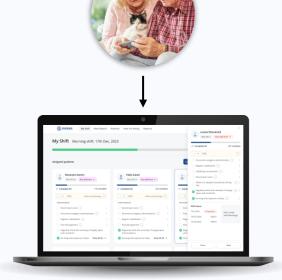


TODAY



TOMORROW

PIPRA Patient At-home risk assessment & prevention



Clinical Delirium Suite In-hospital prevention & treatment





Thanks to the co-authors!









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Thanks for your attention



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E-Learning

