digitalhealth REWIRED BIRMINGHAM 12-13 MARCH 2024

Headline Sponsors:

System Connecting Care

Graphnet Transforming Care

tpp

Dr Sheuli Porkess

Dr Sheuli Porkess, chief medical officer, Precisia C2-Ai business

AI, DATA AND ANALYTICS STAGE

Stage Sponsor:

InterSystems Creative data technology

IMPROVED...

Outcomes

Health Equity

Research

Collaborations

...as a unified service

PRECISIA®

CLINICAL RISK ANALYTICS IN LIFE SCIENCES

'Because there is no average patient'

POWERED BY C2-Ai

Digital Health Rewired March 2024

Dr Sheuli Porkess, CMO, Precisia C2-Ai

INFORMING STRATEGY & MONITORING OUTCOMES

C2-Ai Analytics Platform

C2-Ai analytics applied across health and life sciences cohorts

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Healthcare Analytics

PRECISIA® Analytics

HEALTHCARE

C2-Ai's globally unique approach utilising multifactorial analysis of clinical risk and risk-adjusted outcomes detects and helps resolve hidden issues across acute care and beyond.

POPULATION HEALTH

Precision clinical risk-adjustment across large patient populations

- Geographical
- Specialty
- Disease

Understand the population and target programmes with unique insights on risk, acuity, quality of outcomes, SDoH and EID impact

LIFE SCIENCES

Supporting improved development, delivery and access to new Life Science solutions through accurate, multi-factorial risk-adjustment, cohort stratification at scale and optimal service configuration and delivery

C2-Ai
Precision Healthcare Analytics

450m records processed

47 countries providing data

15 yrs of real-world development built on 30 yrs research

C2-Ai Use Case - Risk-adjusted prioritization of patient treatment list

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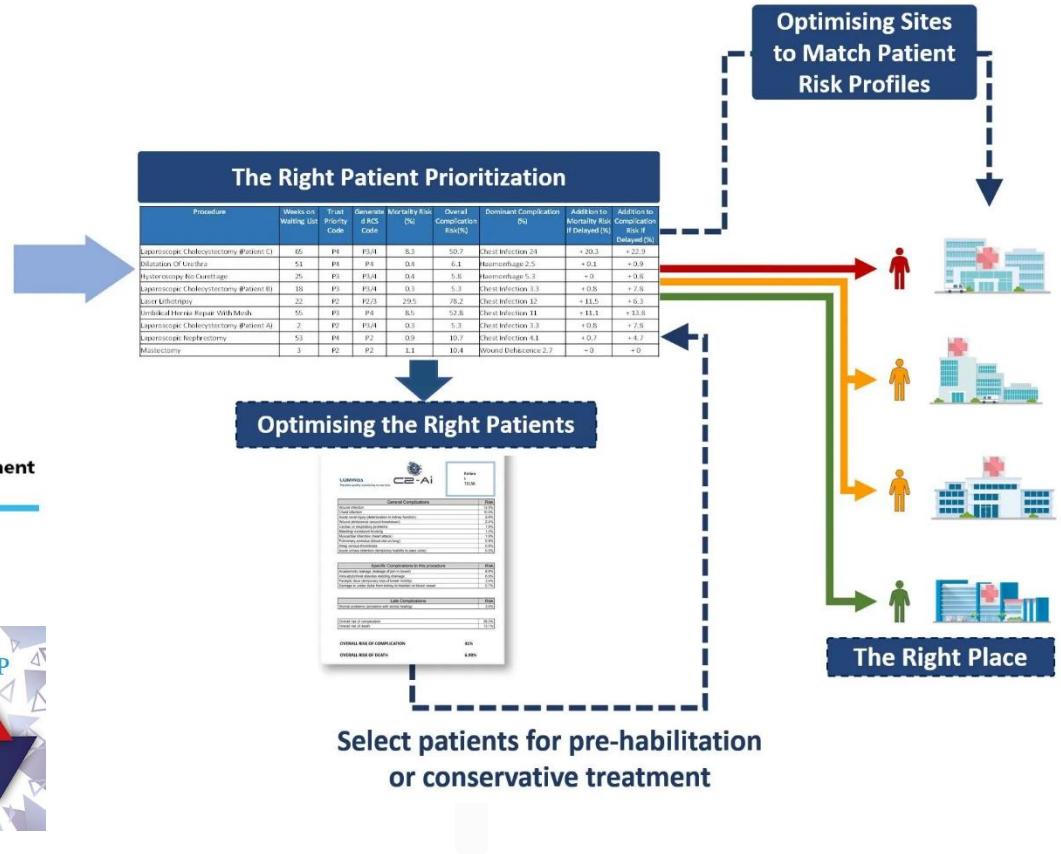
C2-Ai example of risk-assessment and stratification

"The right patient in the right place at the right time" - waiting list for elective procedures

Risk-adjustment for mortality, complications, deterioration at patient level

PTL
PRIORITIZATION SYSTEM
commissioned by
NHS England and NHS Improvement



HSJ PARTNERSHIP AWARDS 2022
WE ARE PROUD TO BE A FINALIST
Best Elective Care Recovery Initiative

HSJ DIGITAL AWARDS 2023
WE ARE PROUD WINNERS
Supporting Elective Recovery Through Digital

GIRFT Elective Recovery High Volume Low Complexity (HVLC) guide for system, November 2021

IMPROVEMENT SAVINGS

+5 mins saved of clinician time per patient per prioritization

8% reduction in A&E admissions

125 bed-days saved per 1000 patients on PTL

SYSTEM IS TRUSTED

15% of cases have a priority mismatch (system priority vs C2-Ai system)

- **95%** Clinicians concurred with C2-Ai reprioritisation
- **5%** unchanged due to qualitative factors captured in score matrix

27% reduction in >52 weeks waits and highest priority scoring patients

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C2-Ai example of risk-assessment and stratification

"Turning the waiting list into a preparation list"

Definition of Specific Patient Cohort
- Elective Waiting List
- Patient Suitable for Waiting Well Intervention

→

Risk-Stratification
- Patients greater or equal to 5% risk of postoperative respiratory complications

→

Targeted Intervention
- Remote health coaching
- Access to mobile learning platform
- Incentive spirometry

→

Measurement of Outcomes
- Intervention vs control
- Qualitative assessment

Results for first 150 patients, EBPOM World Congress for Prehabilitation Medicine, July 2023

	Intervention Group	Control Group
Post-op complication incidence	6%	13%
HAP incidence	0.0%	5.2%
Avg. Actual LoS (days)	3	5
Avg. Expected LoS (days)	7	5
LoS Difference (days)	-4	0
Conversion to day case	35%	26%
Post-op deaths	0	1

Pritchard-Jones R, Huddleston R, Ratnarajah M. Transforming surgical waiting lists into preparation lists. Poster at EBPOM World Congress for Prehabilitation Medicine, July 2023

Contact Details

C2-Ai has offices in St. Petersburg, Florida, and Cambridge, United Kingdom

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