digitalhealth REWIRED LONDON 14-15 MARCH 2023

Headline Sponsors:

SystemC& Graphnet Care Alliance

tpp

MARC FARR

CHIEF ANALYTICAL OFFICER, EAST KENT HOSPITALS AND KENT AND MEDWAY ICB

digitalhealth REWIRED LONDON 14-15 MARCH 2023

Headline Sponsors:

SystemC& Graphnet Care Alliance

tpp

ANALYTICS IN ACTION

PRO-ACTIVELY SHARING AFTER THE GOLDACRE REVIEW
DEVELOPING ‘RAP’ FOR INEQUALITIES
DESIGNING A NEW LINKED DATASET

Our Values

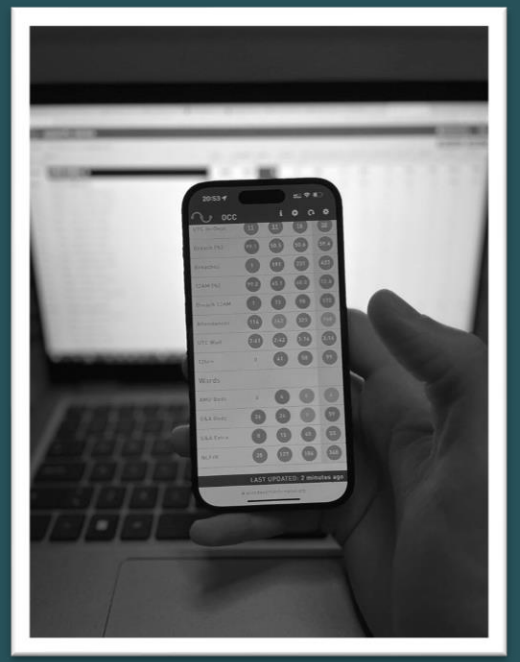
We will enable everyone in our team to reach their potential

We will use data to make a positive difference to the quality of care and experience of every patient

We will use leading technologies to deliver the highest possible standards

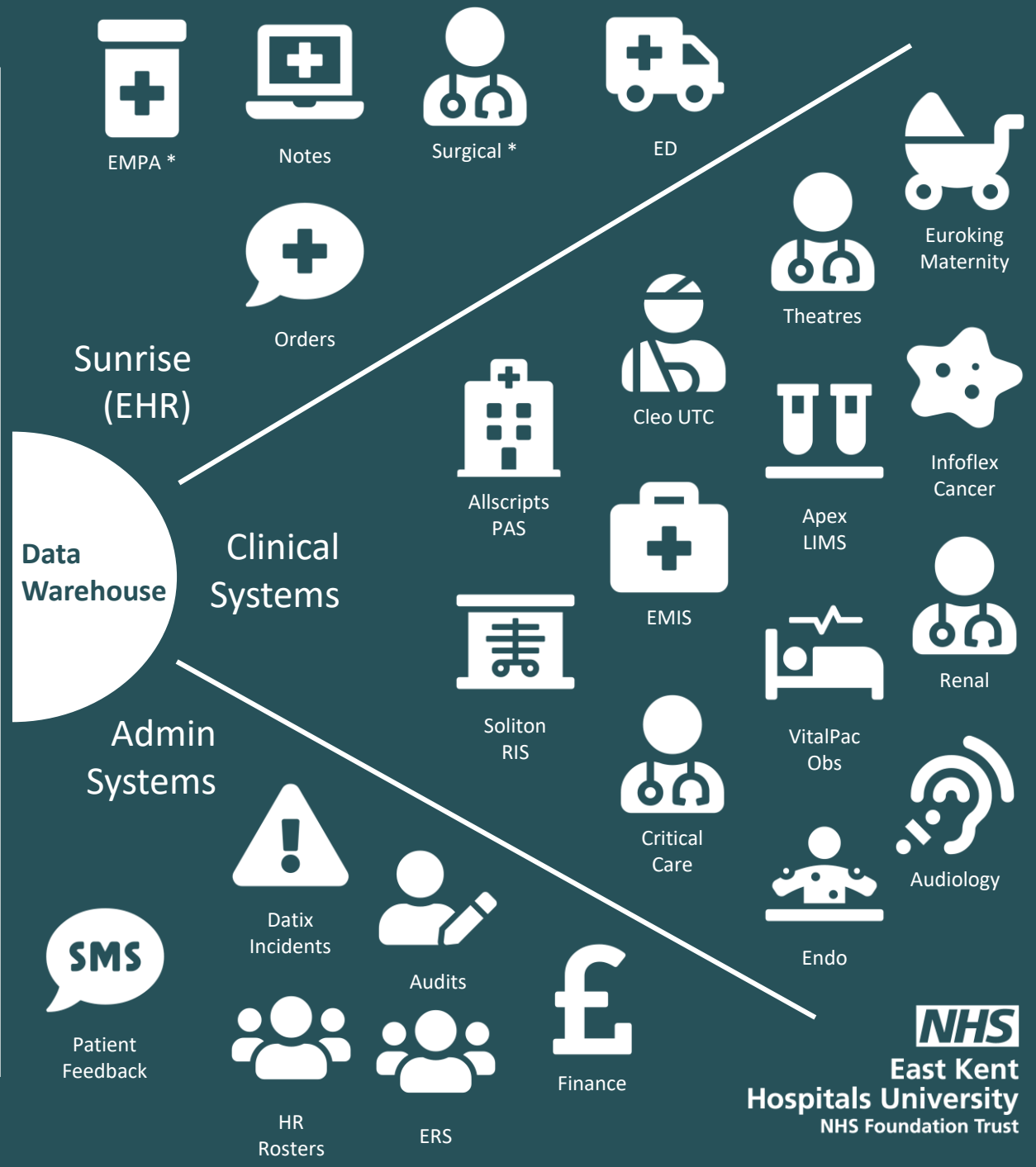
NHS
East Kent Hospitals University NHS Foundation Trust

We provide reliable data everywhere



East Kent Hospitals University NHS Foundation Trust

We employ advanced data processing



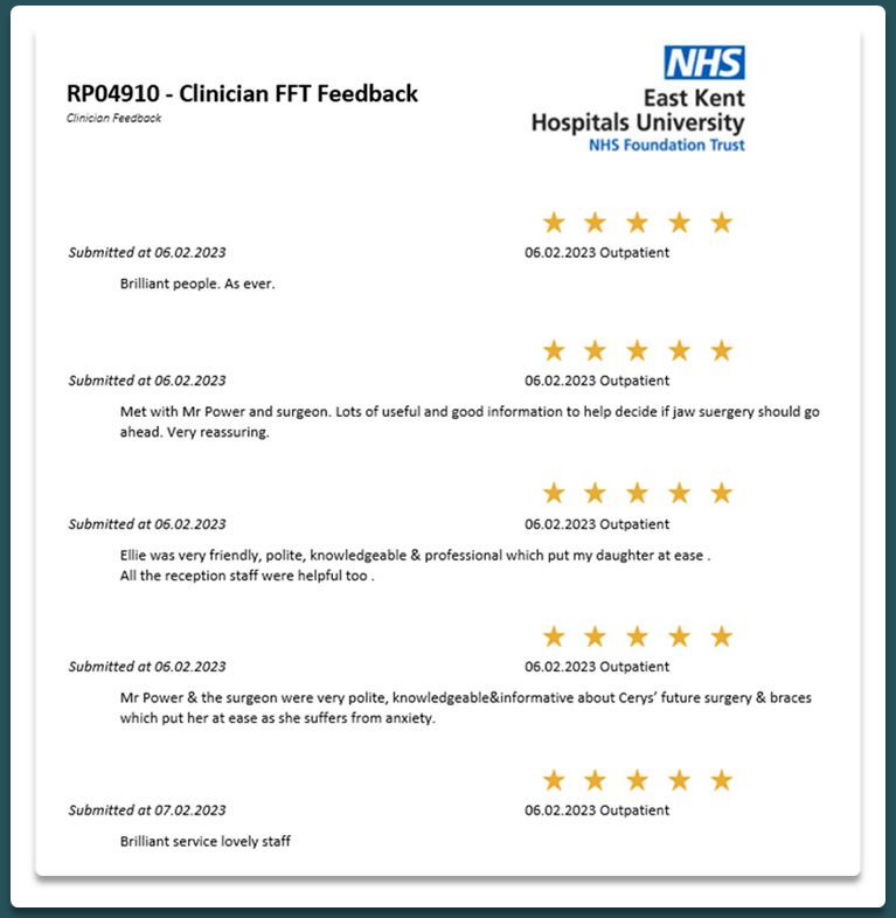
We are on a mission to harness ‘Big Data’

NHS
East Kent Hospitals University NHS Foundation Trust

We have a strong network across the region

NHS
East Kent
Hospitals University
NHS Foundation Trust

Our clinicians receive direct patient feedback



RP04910 - Clinician FFT Feedback

Clinician Feedback

NHS
East Kent Hospitals University
NHS Foundation Trust

★ ★ ★ ★ ★

Submitted at 06.02.2023 — 06.02.2023 Outpatient

Brilliant people. As ever.

★ ★ ★ ★ ★

Submitted at 06.02.2023 — 06.02.2023 Outpatient

Met with Mr Power and surgeon. Lots of useful and good information to help decide if jaw suergery should go ahead. Very reassuring.

★ ★ ★ ★ ★

Submitted at 06.02.2023 — 06.02.2023 Outpatient

Ellie was very friendly, polite, knowledgeable & professional which put my daughter at ease .
All the reception staff were helpful too .

★ ★ ★ ★ ★

Submitted at 06.02.2023 — 06.02.2023 Outpatient

Mr Power & the surgeon were very polite, knowledgeable&informative about Cerys' future surgery & braces which put her at ease as she suffers from anxiety.

★ ★ ★ ★ ★

Submitted at 07.02.2023 — 06.02.2023 Outpatient

Brilliant service lovely staff

We are focussing on the Data Quality Effort

Source: RTT PTL Confidence Level | LUNA National Data Quality Dashboard | February 2023

NHS
East Kent Hospitals University
NHS Foundation Trust

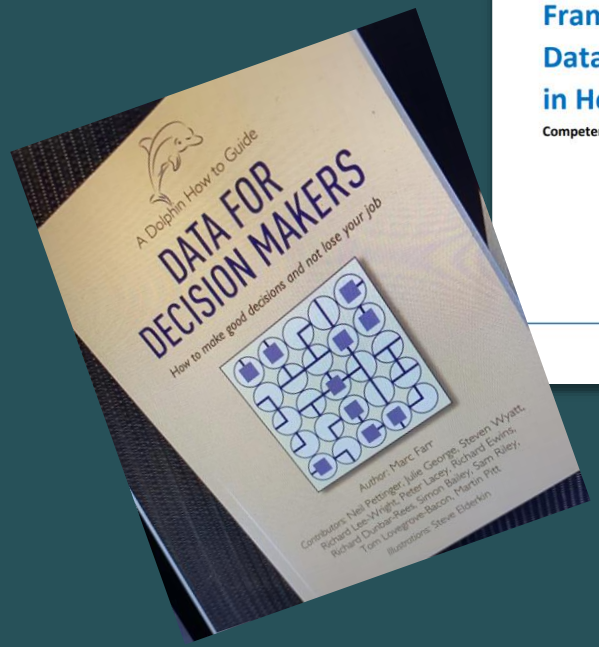
We are developing AI and Robotic Process Automation

CogStack

AI CENTRE for Value Based Healthcare

NHS
East Kent Hospitals University
NHS Foundation Trust

We are developing the analysts of tomorrow



skills development network

Graduates into Health

AphA

National Competency Framework for Data Professionals in Health and Care

Competency Framework Booklet

NHSx

AphA

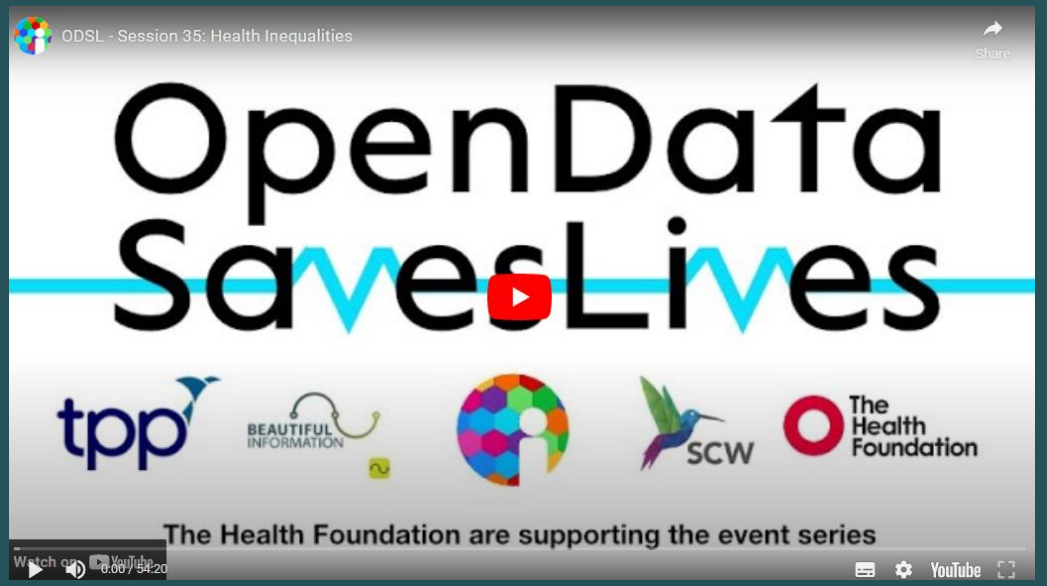
FutureNHS

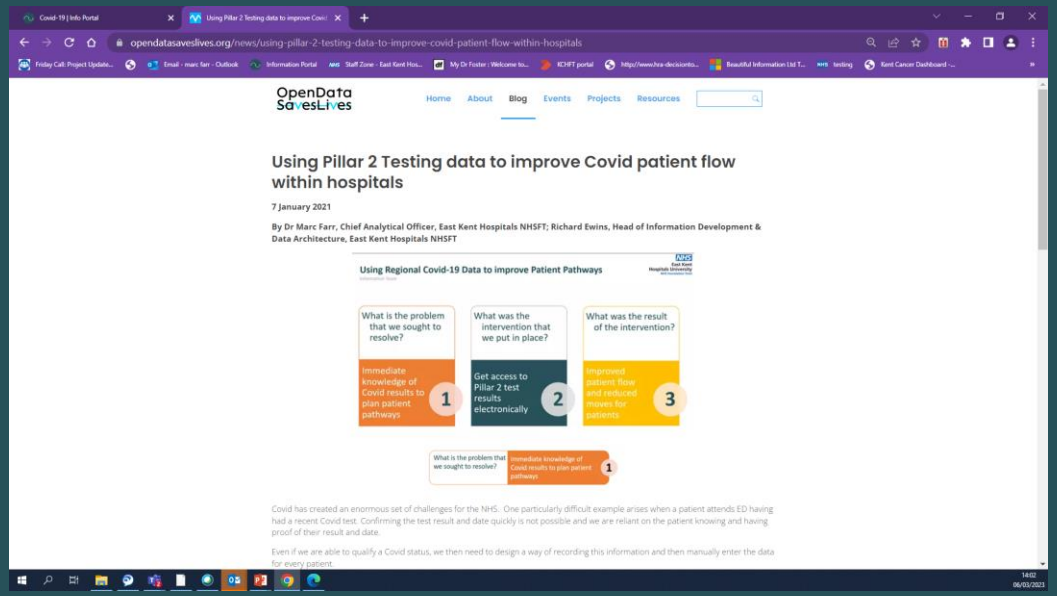
Microsoft Learning

DAVIES FURLONG CONSULTING

NHS
East Kent Hospitals University
NHS Foundation Trust

We share data across the health economy

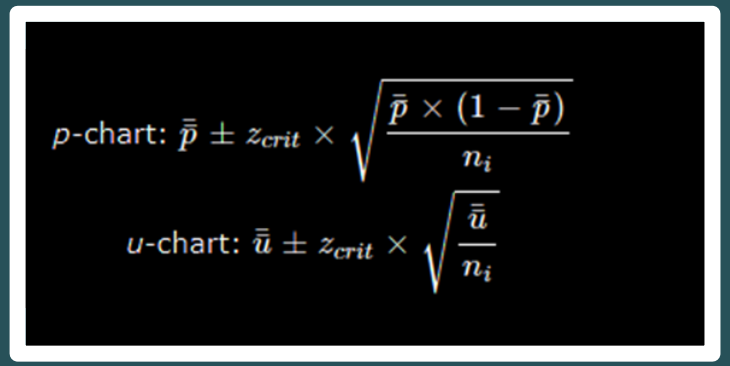


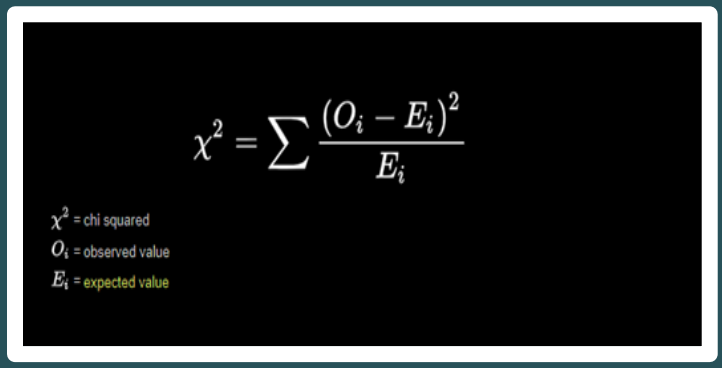


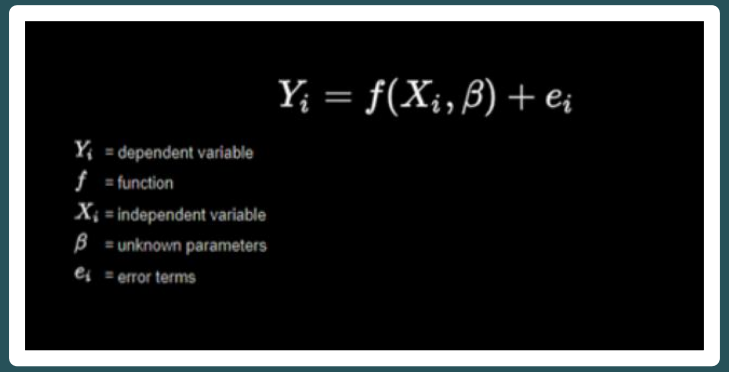
Source: Community Hub Patients by GP Practice | Combined Datasets | February 2023

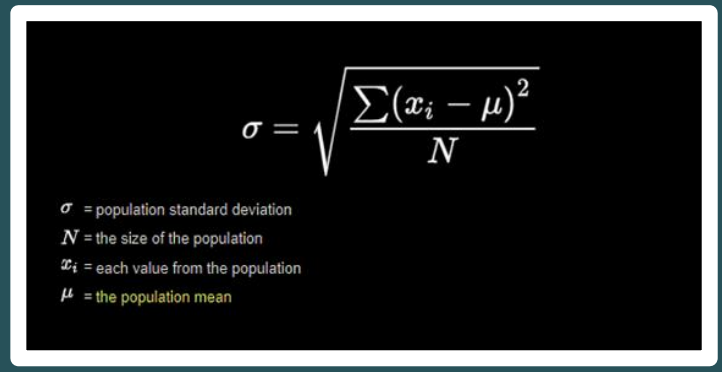
NHS
East Kent Hospitals University
NHS Foundation Trust

We are designing measures for variation and inequality









Approach to maturing our analysis

EKHUFT: Approach to Inequalities analysis

Phase 1 – Q 1 22/23
Bronze

- Counts and Rates
- Crude data
- Examples include:
  - Staffing sexual orientation analysis
- Maturity level:
  - Pie Chart

Phase 2 – Q2 22/23
Silver

- Benchmarking versus all activity including statistical tests.
- Crude data
- Examples include:
  - Paediatric DNA rates
  - Continuity of Care for Maternity
  - Elective waiting list breakdown
  - Rates of falls
- Maturity level:
  - SPC

Phase 3 – Q4 22/23
Gold

- Regression and data mining
- Crude data
- Examples will include:
  - Factor analysis for DNA rates
- Maturity level:
  - Regression/Forecast

Phase 4 – Q2 23/24
Platinum

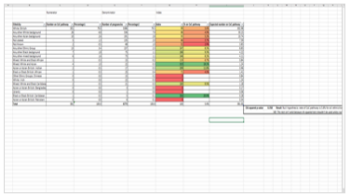
- Standardised rates
- Adjusted data
- Examples will include:
  - Overall equality and variation measure
- Maturity level:
  - HSMR

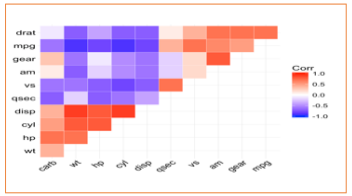
Statistical Tools

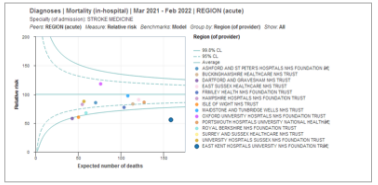
Segmentation Tools

r/Python

Acorn or Mosaic, Look Ups and Stratification Tools





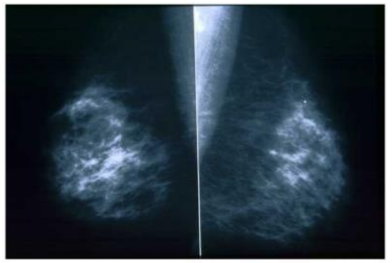


From…

Did you know?

…there are as many unplanned pregnancies among the over 40s as there are for the under 20s…

Did you know?



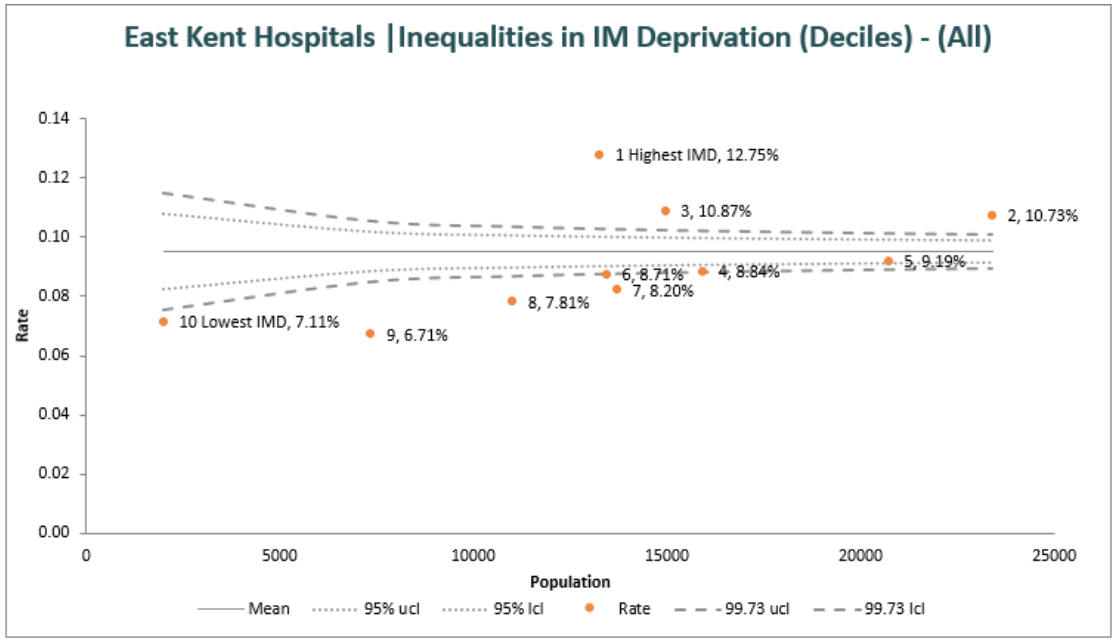
…women diagnosed with breast cancer in their 40s from an affluent background are more likely to have a lumpectomy than a mastectomy …

To…

The higher the level of deprivation the more likely families with children are to DNA.

Unknown is removed

Row Labels	Sum of Num	Sum of Denom	Index	Expected	Rate
1 Highest IMD	1,692	13,273	134	1263.7	12.7%
2	2,512	23,401	113	2228.0	10.7%
3	1,626	14,962	114	1424.5	10.9%
4	1,408	15,936	93	1517.2	8.8%
5	1,904	20,728	96	1973.5	9.2%
6	1,171	13,446	91	1280.2	8.7%
7	1,124	13,710	86	1305.3	8.2%
8	860	11,018	82	1049.0	7.8%
9	494	7,366	70	701.3	6.7%
10 Lowest IMD	143	2,010	75	191.4	7.1%



EKHUFT readiness assessment

NHS
East Kent
Hospitals University
NHS Foundation Trust

This is an overall assessment of the organisational capability within the domains described and the associated judgements based on the evidence gathered. This is subject to a discussion with the aim to gain a consensus with the leadership team on relative strengths and areas for development.

NHS
East Kent
Hospitals University
NHS Foundation Trust