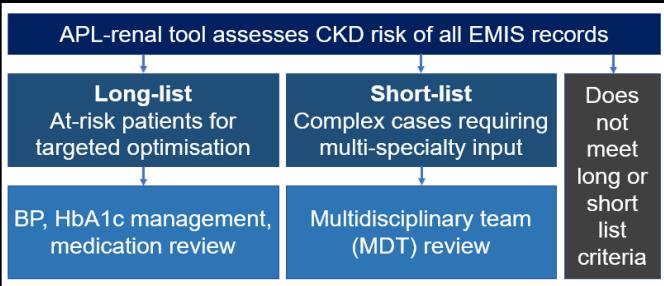


Multi-Morbidity Model of Care – Analysis to Evaluate Project Impact in South East London

Introduction

- The Multi-Morbidity Model of Care (MMMoC) Programme was rolled-out in participating South East London GPs to address growing concerns related to the chronic kidney disease (CKD) population.
- As a new, patient-centred, integrated model focused on improving outcomes, an evaluation was required to assess impact and feasibility for system-wide adoption.

Target Population



Methodology

Data Sources

Primary Care: Discovery dataset
Secondary Care: SUS Inpatients and Outpatients
Linked using **pseudonymised patient IDs** to create a single longitudinal dataset.

Patient Identification

Clinicians added project-specific **SNOMED codes** to patient **primary care records** at initial assessment.
QOF CKD Register used as **baseline population**.

Outcome Measures

Defined collaboratively with various SEL NHS teams.
Clinical Outcomes: CKD detections, blood pressure, HbA1c, medication prescribing.
Healthcare Utilisation: non-elective admissions, A&E attendances, outpatient attendances for cardiology, nephrology, diabetes (CND).

Project Comparisons

Patient-Level: Baseline CKD vs Long List vs Short List, compared across all outcome measures.
Population-Level: Participating practices vs non-participating practices compared across all outcome measures, plus CKD detections.

Aim

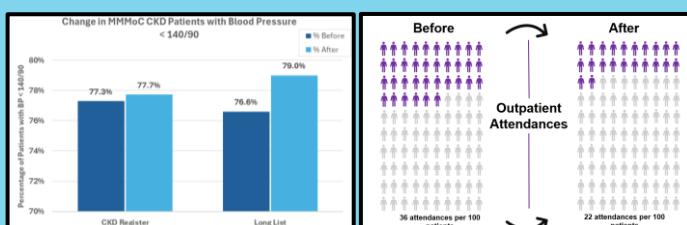
- To use **statistical methods** to determine if MMMoC significantly improved clinical outcomes, optimised care and reduced hospital burden.

Statistical Analysis

- Data for each outcome measure was extracted at two time points: **before** and **after onboarding**.
- Difference** in measure values between time points were calculated.
- Indirect age-standardisation was applied to admissions and attendance rates to reflect age distribution differences between patient groups.
- Two Proportion Z-Tests were used to compare target and baseline populations and determine significant differences within 95% confidence intervals.
- Results validated by clinical colleagues against known trends.

Results

- CKD detections** in participating sites increased 0.6% more than in **non-participating sites**.
- Proportion of **Long List** patients with **in control blood pressure (< 140/90)** increased by 2.4%, compared to only 0.4% for **baseline**.
- Non-elective hospital admissions** dropped from 20 to 7 per patient for Long List patients.
- CND outpatient attendances** dropped from 36 to 22 per 100 patients for **Short List** patients.



Conclusion

This analysis demonstrated the power of using **statistics** and **healthcare dataset linkage** to provide **real-world evidence** for the **impact of integrated health care models**.