

Project Title

Fast-Track Dental Referrals to Hip Fracture Patients

Project Lead and Members

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Project members: Dr Natalie Ng, Adj Asst Amritpal Singh, Dr Jasmine Lim, Dr

Margaret Tan, Dr Alvin Ong, Adj A/Prof Fareed Kagda

Organisation(s) Involved

Ng Teng Fong General Hospital

Healthcare Family Group Involved in this Project

Medical

Aims

The team intends to double the proportion of medically eligible hip fracture patients with dental clearance, and double the proportion of such patients started on Anti-resorptive therapy by June 2022 because Anti-resorptive therapy can reduce risk of future fragility fractures by 50%.

Background

See poster appended/ below

Methods

See poster appended/ below

Results

See poster appended/ below

Lessons Learnt

Increasing Anti Resorptive Treatment Rates in hip fracture patients have reduced the risk of future fragility fractures and strengthened multi disciplinary team efforts in this project

Conclusion

See poster appended/ below

Project Category

Care & Process Redesign

Workflow Redesign

Keywords

Hip Fracture Patients, Anti Resorptive Therapy

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FAST-TRACK DENTAL REFERRALS FOR HIP FRACTURE PATIENTS

- ☐ SAFETY
- ☒ QUALITY
- ☒ PATIENT EXPERIENCE
- ☐ PRODUCTIVITY
- ☐ COST

MEMBERS: ADJ ASST PROF KEVIN YIK (LEAD), DR NATALIE NG (CO-LEAD), ADJ ASST AMRITPAL SINGH, DR JASMINE LIM, DR MARGARET TAN, DR ALVIN ONG, ADJ A/PROF FAREED KAGDA(SPONSOR)

Define Problem, Set Aim

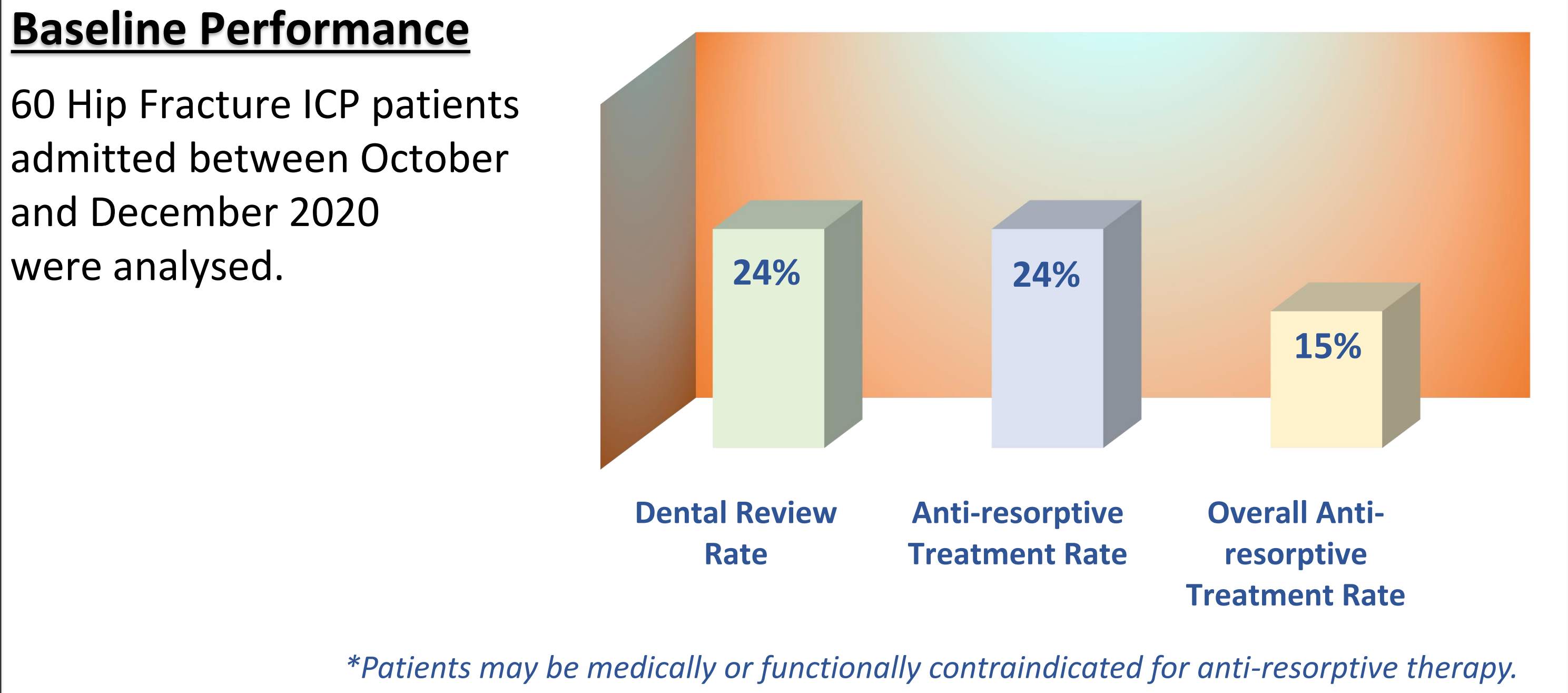
- Problem/Opportunity for Improvement**
- Anti-resorptive therapy for osteoporosis can reduce the risk of fragility fractures by 50% (*Source: International Osteoporosis Foundation*).
 - Medically eligible patients are referred for dental clearance prior to starting Anti-resorptive Therapy.

Aim

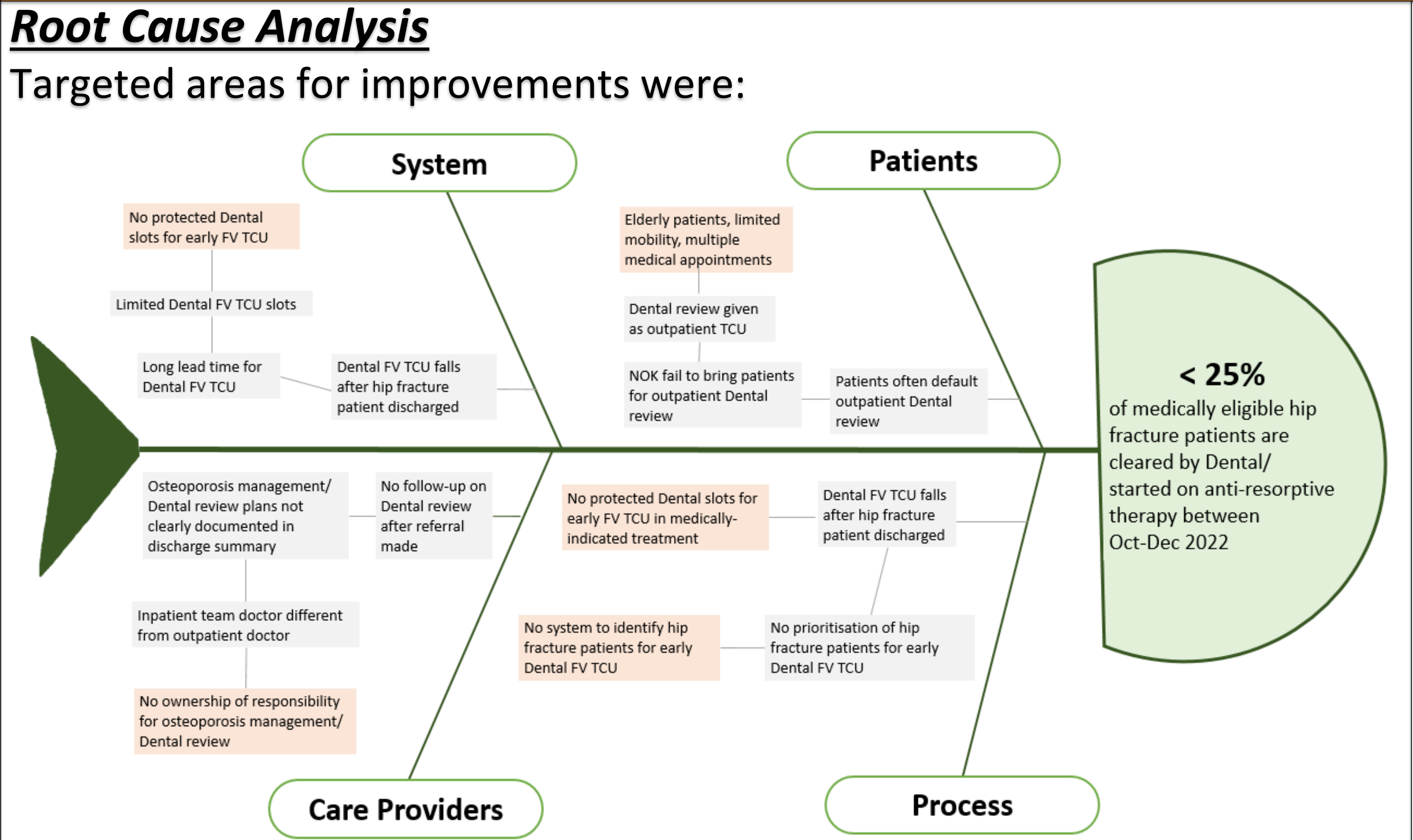
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Establish Measures

- Outcome Measures**
- Dental Review Rate (%)** - defined as percentage (%) of medically eligible hip fracture patients with dental clearance for Anti-resorptive Therapy. The % includes patients with dental clearance and patients who did not require dental clearance prior to starting Anti-resorptive Therapy (e.g. previously already on Anti-resorptive Therapy).
- Anti-Resorptive Treatment Rate (%)** - defined as percentage (%) of medically eligible hip fracture patients started on Anti-resorptive Therapy. The % includes patients started on, or restarted on Anti-resorptive Therapy (e.g. previously already on Anti-resorptive Therapy).
- Overall Anti-resorptive Treatment Rate (%)** - defined as % of hip fracture patients started on Anti-resorptive Treatment.



Analyse Problem



Acknowledgements

The team would like to thank the respective staff from Orthopaedic Surgery and Dentistry for their tireless contributions in making this project a success.



Select Changes

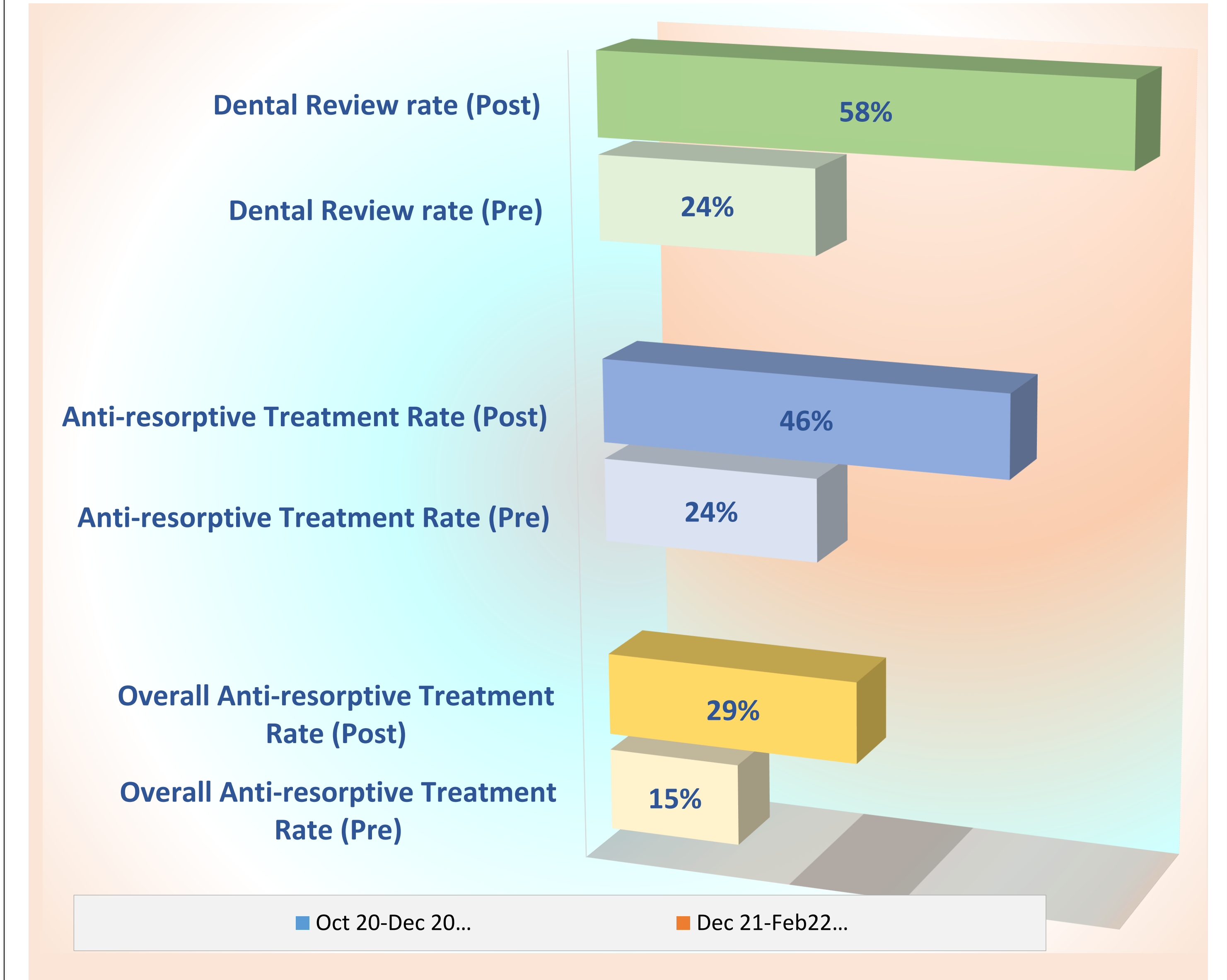
Root Cause	Probable Solutions
Staff: no ownership of responsibility	Standardised workflow for Fast Track Dental Referrals and clear documentation of outpatient follow-up plans in discharge summary.
System: No protected Dental slots for early FV TCU in hip fracture patients	Creation of protected, early Dental FV TCU slots for Medically-Indicated Treatment patients (including hip fracture patients)
Process: No identification of hip fracture patients for early Dental FV TCU	Standardised workflow for Fast Track dental referrals in hip fracture patients.
Patients: elderly, limited mobility, multiple medical appointments	Fast Track dental referrals in hip fracture patients to increase chance of Dental FV TCU while inpatient.

Test & Implement Changes

PLAN	DO	STUDYY	ACT
Define Problem, Set Aims – Sept 2021	Doctor to make EPIC Order Dental Referral - 'DENTAL TCU FAST TRACK (MIT FOR HIP FRACTURE)'	Total of 87 Hip Fracture ICP patients admitted between Dec 21 and Feb 22 analysed as post-intervention cohort.	Fast Track Dental Referrals hip fracture patients effectively increases the rates of dental clearance and anti-resorptive treatment of osteoporosis.
Stakeholders engagement; Establish Outcome Measures; Analyse Problems – Oct 2021	Ward PSA to email Dental Ops team about Fast Track Dental		
Select and Test Changes – Nov 2021	Dental FV to be Fast Tracked within 3 weeks of referral		
Implement Changes – Dec 2021			

Results

Comparing Pre-intervention (Oct 2020 to Dec 2020) and Post-intervention (Dec 2021 to Feb 2022), **Dental Review rate increased by 34%. Anti-resorptive Treatment Rate increased by 22%** whereas **Overall Anti-resorptive Treatment rate increased by 14%.**



Spread Changes, Learning Points

- The Hip Fracture Fast Track Dental Referral Workflow will be adopted and monitored for sustained or further improvements in the respective outcome measures.
- Increasing Anti-resorptive Treatment Rates in hip fracture patients have reduced the risk of future fragility fractures and strengthened multi-disciplinary team efforts in this project.