



Inequity in breast cancer surveillance in Taranaki

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Breast Cancer in Aotearoa

- 3500 diagnoses and 650 deaths annually
- National Breast Screening Program
- Māori Wāhine
 - Higher age adjusted incidence
 - Fewer screening mammograms
 - Diagnosed at a younger age
 - More advanced disease at diagnosis
 - Longer delay from diagnosis to treatment
 - Higher mortality



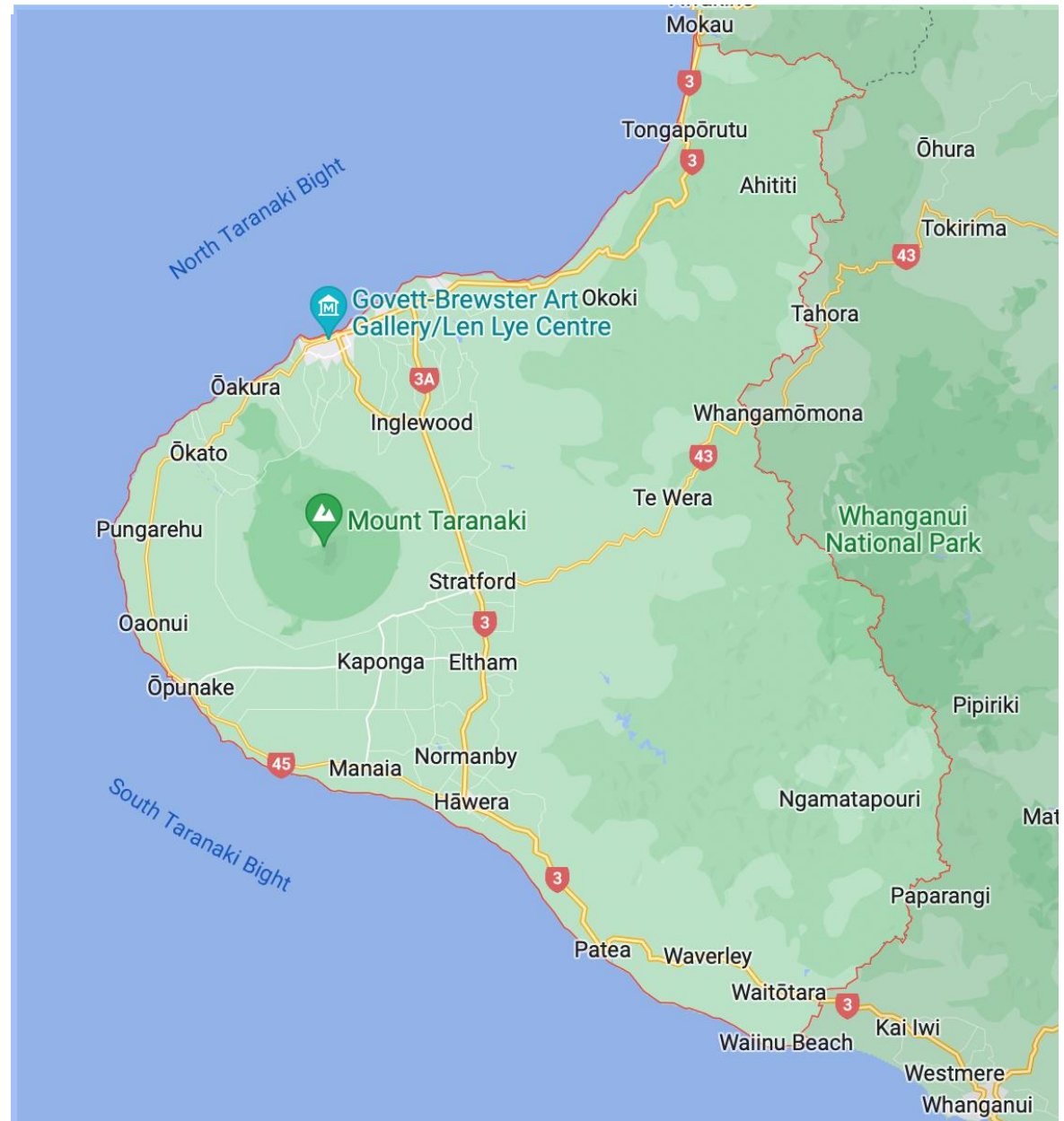
Breast Cancer Surveillance

- Survivors should receive yearly surveillance mammograms (NZ MoH)
- Early detection of recurrent and new disease



The Patient Journey in Taranaki

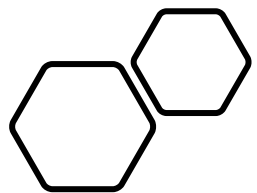
- Regional population: 117,000
- 65% Urban, 20% Māori
- Surgical and Radiology services located in New Plymouth
- No protocolized surveillance schedule
- No automated radiology recall system





That's a lot of
appointments !

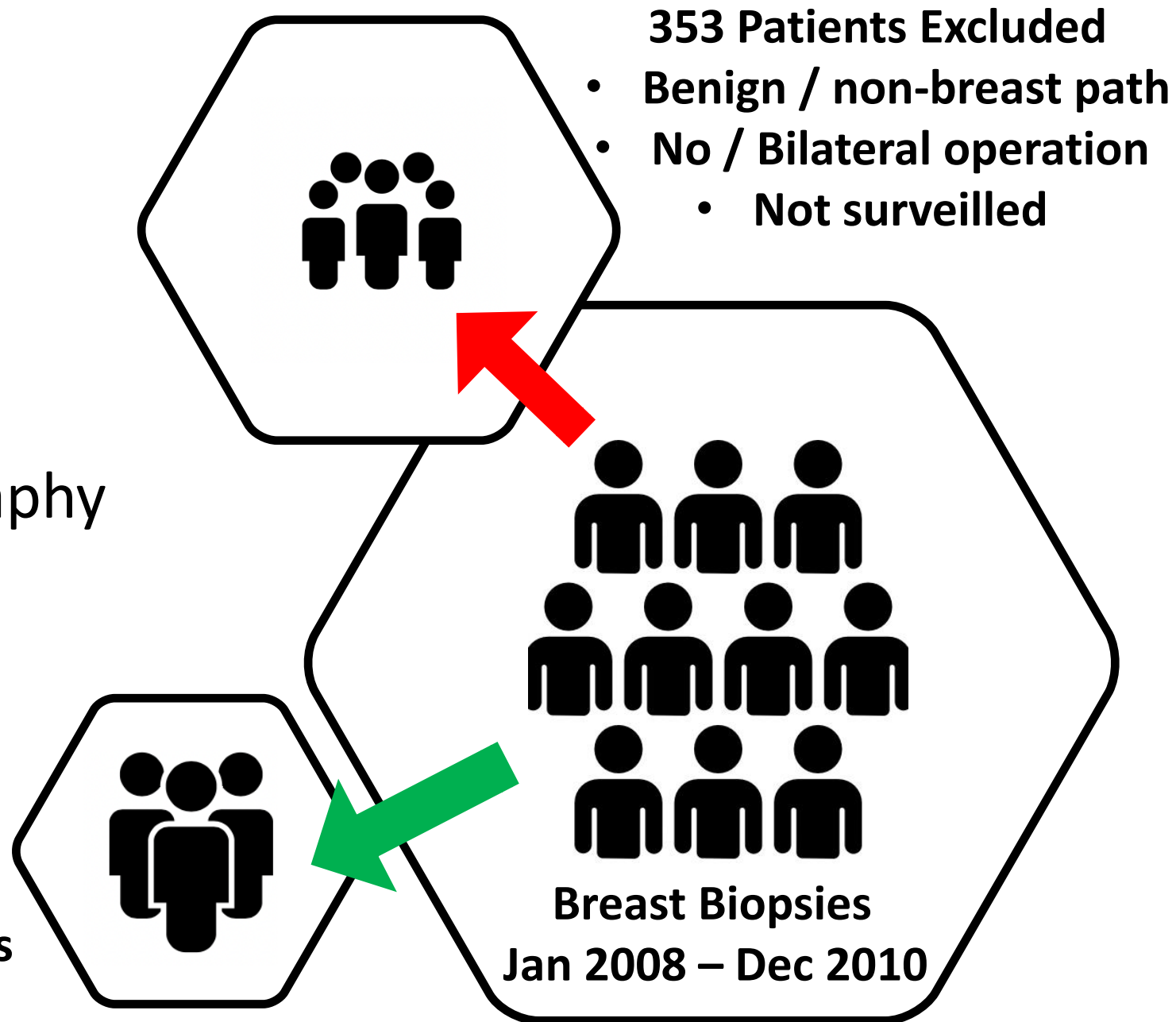
Who organizes
and checks the
scans ?



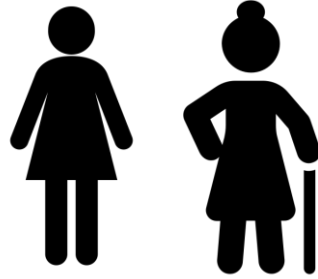
Our Study

- Study the uptake of surveillance mammography
- Probe for inequity
 - Ethnic
 - Rural

**195 Patients
Included**



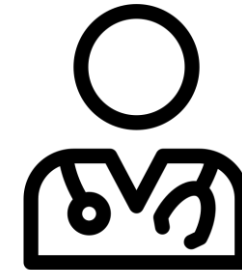
Our Patients



Age
57+/-13 years



Ethnicity
11.8% Māori



Distance to GP
0.1 – 97 km



Distance to Radiology
0.2 – 117 km

A large red circle on the left side of the slide, partially cut off by the edge.

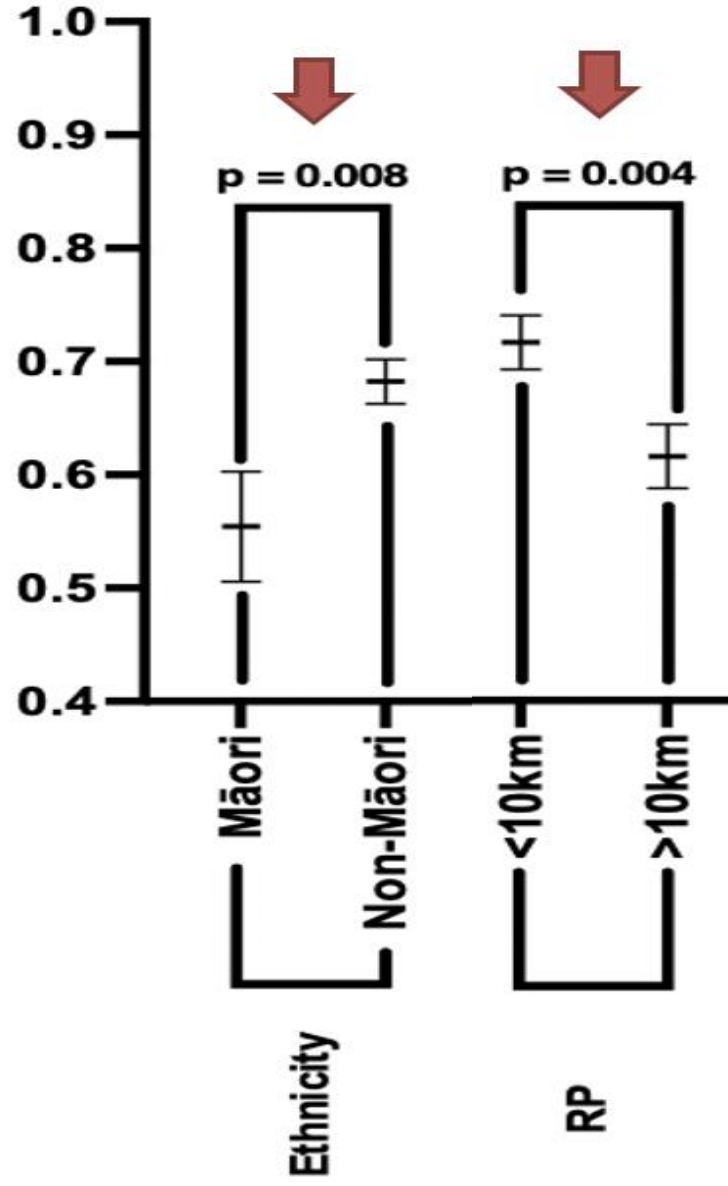
Surveillance
mammography
rates

Mammogram in 6.03
out of 10 first post-
operative years

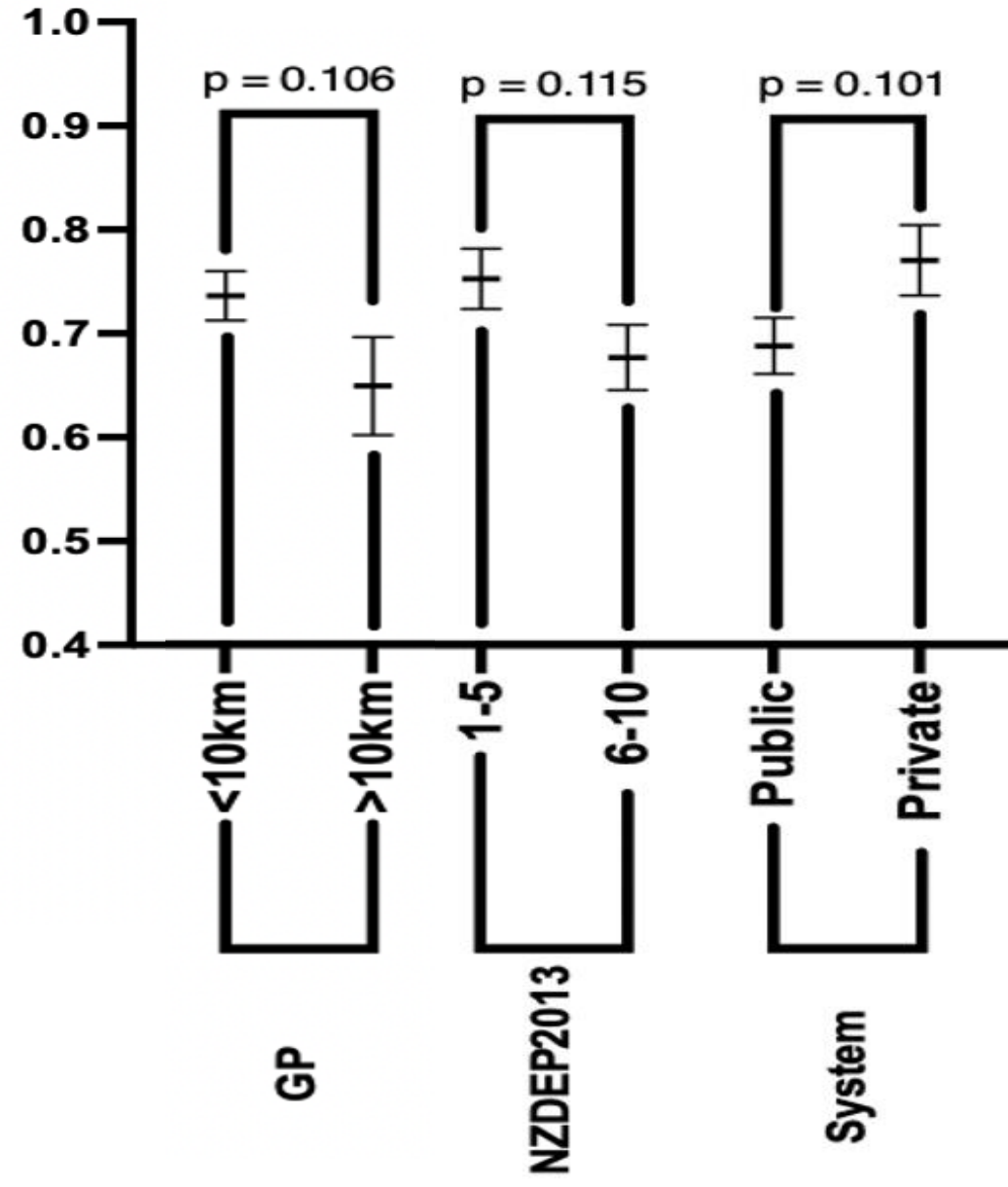
67% of the
mammogram
opportunities fulfilled

Four short, thick purple lines of varying lengths and orientations, located in the bottom right corner of the slide.

Rate of realized surveillance
mammography opportunities



Rate of realized surveillance
mammography opportunities

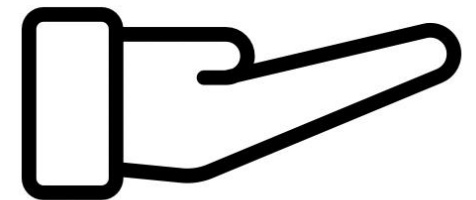
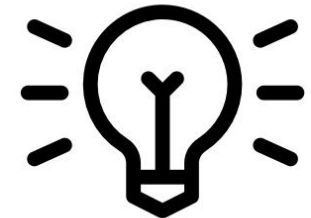
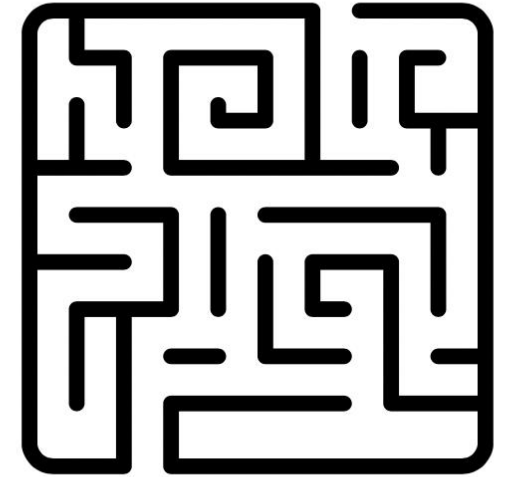


MĀORI PATIENTS

- **Did not live further from their GP or radiology provider than non-Māori patients.**
- Presented at a significantly younger age ($p=0.002$) with significantly larger tumours ($p=0.012$).
- Tended to live in higher deprivation areas and be under-represented in the private sector cohort.

How can we improve?

- Decentralization
 - Mobile mammography services
 - Telehealth
- Protocolized follow up schedule
- Automatic recall / free self-referral system



Conclusion



67% of surveillance mammography opportunities realized



Inequities affect Māori and those living rurally



Further research and patient consultation needed



We have a responsibility to improve our patient care and combat inequity

Thank you !



References

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