### Regional Executive Forum

Compiled papers relating to Vulnerable Services on following meeting dates:

- 30 April 2020
- 8 May 2020











### **NRHCC COVID-19 Request for Decision**

Email your completed IMT Request for Decision form to <a href="mailto:nrhcceocm@adhb.govt.nz">nrhcceocm@adhb.govt.nz</a>

(Issue, Recommendation and Outcome to be entered in the NRHCC Decision Tracker)

NRHCC Function Group:	Regional Provider Capacity Planning and Re	sponse
Submitted by:	Joanne Brown	
Date:	30 April 2020	
Issue:	Need to progress regional planning in the ne planned care for all DHB populations in the ne Priority areas established and opportunities  Vulnerable services	next three months
Recommendation & Request:	Recommendations agreed by Regional Steer requiring regional CEO agreement to proceed	
Does this recommendation	on incur a financial cost?	(Yes or No) Highly likely
If yes, what is the estimat	ed cost that will be charged to COVID-19 RC?	\$ not known
Interdependencies with other Functions: (Ensure recommendation is agreed by other Function team prior to submission)		
NHRCC Incident Controller:		
Decision: (Approved / Declined / Comment)		

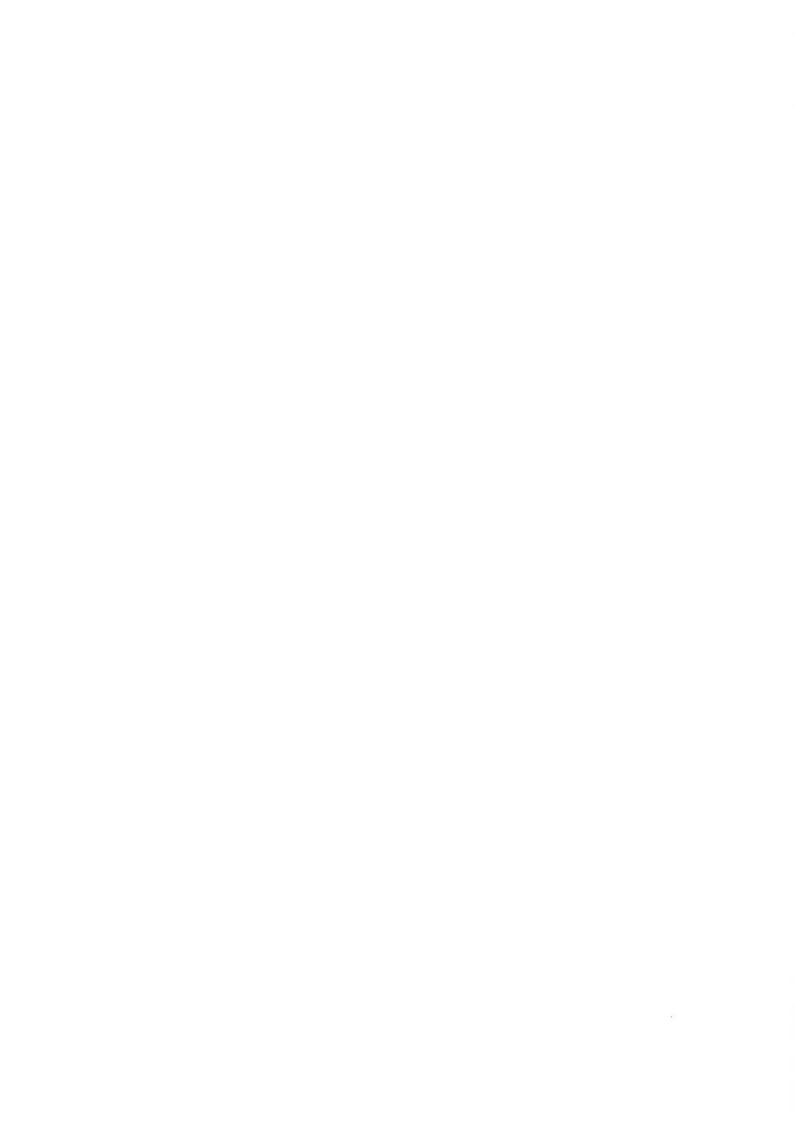
Classification: Authorised by NRHCC IC

Date: 30.03.2020

**Date of Decision:** 

Issued by: NRHCC EOCM

Page 1 of 2











### **Recommendations – Regional Provider Capacity Planning Steering Group 30 April 2020**

### **Vulnerable Services (Lead: Jo G)**

- 1. Review list of priorities from equity perspective (Andrew/Rawiri)
- 2. Prioritise list of services based on equity perspective
- 3. Identify regional leads, initiate discussions and establish plans for implementation
- 4. Review Tertiary/Regional and National Referral response through separate discussion (Jo G, Jo B)
- 5. Review funding/pricing mechanisms to support new ways of working (Rosalie)
- 6. Equity leads to advise any other vulnerable services not on list ( Aroha, Meg, Rawiri)

Classification: Authorised by NRHCC IC Issued by: NRHCC EOCM
Date: 30.03.2020 Page 2 of 2









### **NRHCC COVID-19 Information Paper**

Email your completed NRHCC Information Paper to <a href="mailto:nrhcceocm@adhb.govt.nz">nrhcceocm@adhb.govt.nz</a>

(Issue, Recommendation and Outcome to be entered in the NRHCC Decision Tracker)

NRHCC Function Group:	Regional Provider Capacity Planning and Re	sponse
Submitted by:	Joanne Brown	
Date:	8 May 2020	
Issue:	Regional Provider Planning – Planned Care S Information presented to update CEOs regar services' response for the next three months	ding focus areas in planned care
Information for noting and/or discussion:	Note updated actions against CEO agai	ble services list, note need for ns, seek views of CEOs as to s priority being given to a g a consistent approach needed
Does this recommendation	on incur a financial cost?	(Yes or No)
If yes, what is the estimate	ed cost that will be charged to COVID-19 RC?	\$
Interdependencies with other Functions: (Ensure recommendation is agreed by other Function team prior to submission)	1.00 m	
NHRCC IC:		

NHRCC IC:	
Decision: (Approved / Declined / Comment)	
Date of Decision:	

Classification: Authorised by NRHCC IC

Date: 30.03.2020

Issued by: NRHCC EOCM

Page 1 of 4



### Regional Provider Capacity Planning Steering Group CEO approved recommendations – update 7 May meeting

		7 May update/actions	Lead
/ulnera	able Services (Lead: Jo G)		
1.	Review list of priorities from equity perspective (ORL, Oral Health, Ophthalmology, Sarcoma, Vascular), prioritise based on equity perspective and identify other vulnerable services based on equity perspective	<ul> <li>Vulnerable services list agreed.         Rapid methodology approach being developed         Need to engage all CMOs         Surgical prioritisation to be added to list (need rapid regional discussion) with specific focus on     </li> </ul>	Jo B/Pete All Jo B
2.	Confirm scope, expected outcomes, initiate work with regional reps and develop proposals for implementing new regional way of working	approach to Ortho including mgt of patients on list including development of MSK/OA pathway  DHB Leads confirmed	
3.	Review Tertiary/Regional and National Referral response through separate discussion (7 May update – no further discussion needed)	ORL + H & N + Max Fax – ADHB Ortho – WDHB Ophthalmology - ADHB Vascular - ADHB Spinal – TBC	
4.	Review funding/pricing mechanisms to support new ways of working	Oral Health – CMDHB  Consideration needs to be given to future regional coordinated approach to managing Screening Programmes and review progressing lung cancer pilot rapidly given equity benefits	Debbie Karen Aroha Meg

### Pacific Clinical Technical Advisory Group

Compiled papers relating to Vulnerable Services on following meeting dates:

- 9 September 2020
- 30 September 2020
- 19 November 2020



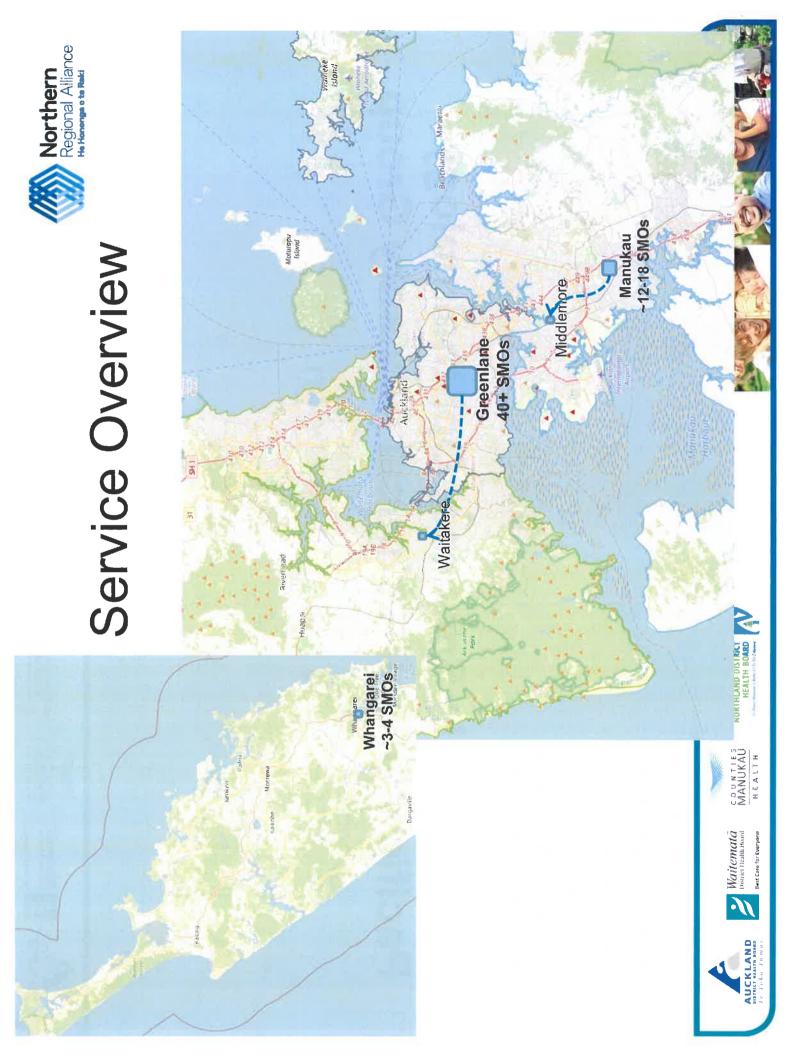
## Pacific Clinical Technical Advisory Group **Vulnerable Services: Ophthalmology**

9 September 2020









## Demand large - age & diabetes key drivers Regional Allian Cataract Procedures by Diabetes Status and Ethnicity

Regional Alliance

Of the 8,137 Cataract Procedures (incl outsourced) delivered for Northern Region domiciled patients:

NDHB made up 11% (886) of the regional volume.

 72% was for non-diabetic. 25% was for Maori with over half of the Maori were diabetic. Number of 2019 Cataract Procedures

of the regional volume.

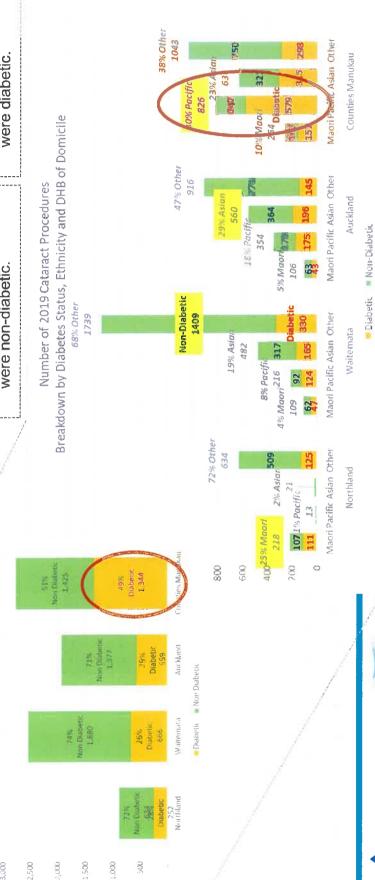
 74% was for non-diabetic. of which were non-diabetic. ethnicities, majority (81%) 68% was for Other

WDHB made up 31% (2.5K) ADHB made up 24% (1.9K) of the regional volume.

- 71% was for non-diabetic. 47% was for other ethnicity with high proportion nondiabetic.
- patients receiving cataract 29% was for Asian, of which 65% of Asian were non-diabetic.

**CMDHB** had 34% (2.8K) of the regional volume.

- 51% was for non-diabetic.
  - 38% was for other ethnicity with high proportion nondiabetic.
- patients receiving cataract 30% was for Pacific, of which 70% of Pacific







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# What's the problem we're trying to solve?

Access

Timeliness (Waits)

Experience

Equity

Quality

Outcome

ne











# **Equity of Access**

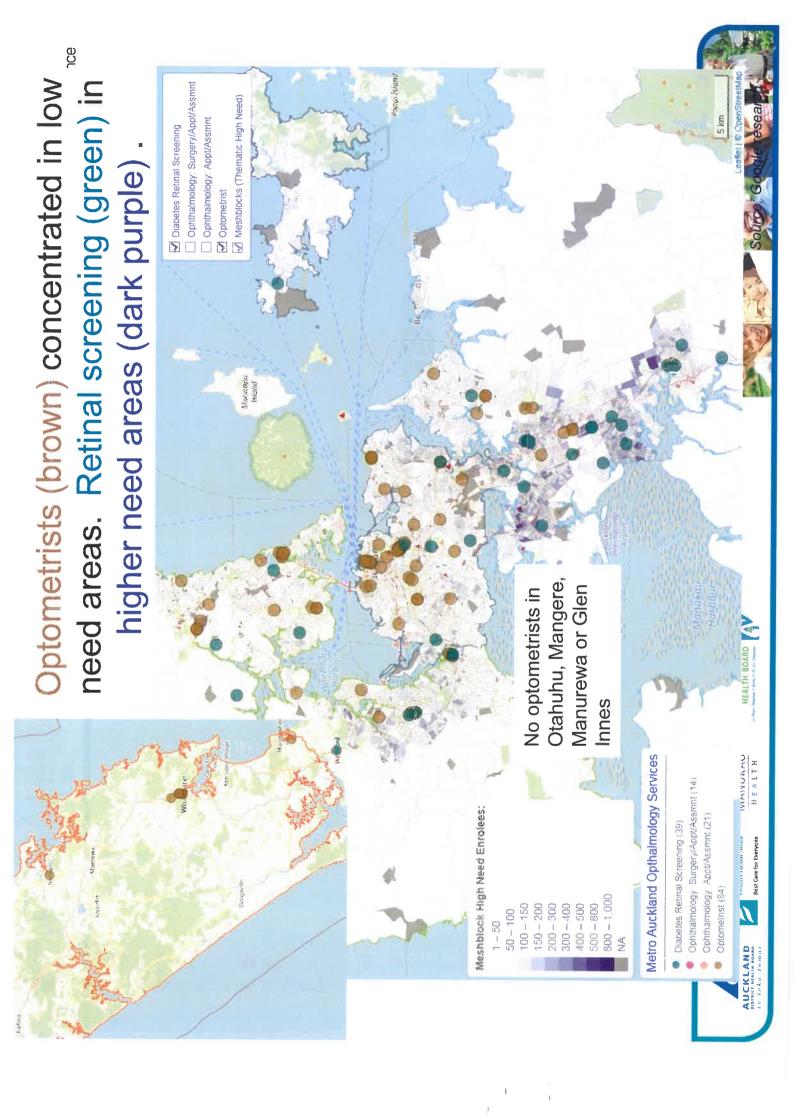








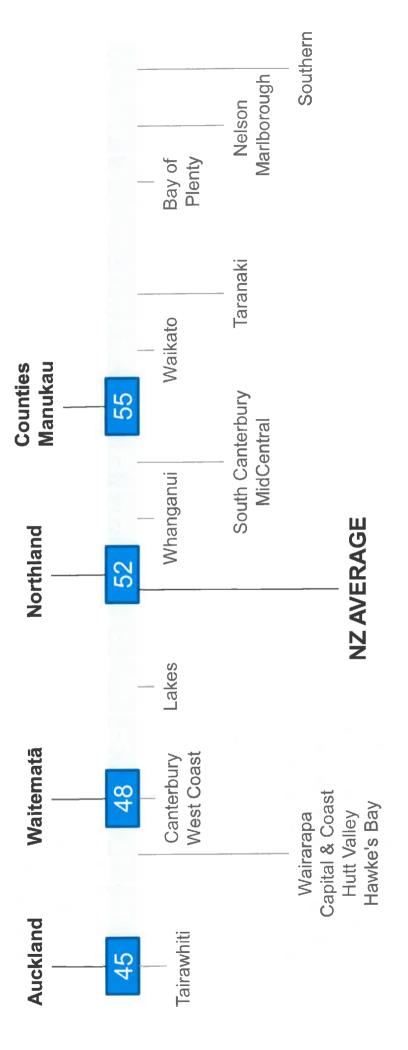






## Equity of Access

# Different CPAC thresholds for Cataracts



Data source: https://www.nzherald.co.nz/nz/news/article.cfm?c\_id=1&objectid=12219285, 9 April 2019 + Confirmation from Northern DHBs













technicians – starting in high need areas. Also looking at Recommendation #1 - Development of new/ expanded community eye clinics run by optometrists, nurses and virtual clinics.

Recommendation #2 - Commitment to equalise CPAC thresholds regionally









# **Equity of Timeliness/Waits**







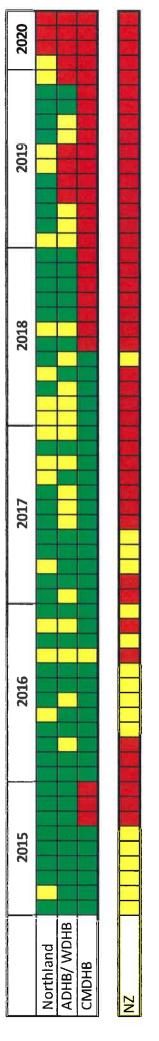




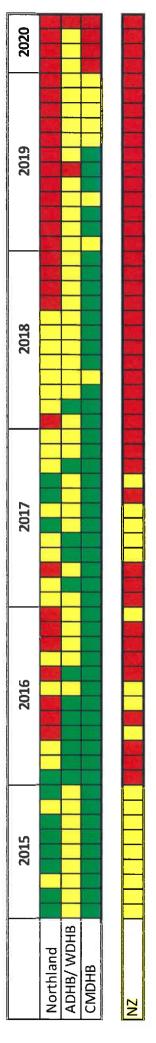
## Wait times were getting worse pre-COVID Equity of Waiting times

Ophthalmology ESPI 2 and 5 Indicators April 2015- April 2020

ESPI 2 - FSA within 120 days



## ESPI 5 - Procedure within 120 days



Source Quickr MOH











## biggest driver of inequity – largely Northland In analysing wait times, DHB of Service



# Factor Importance Wait Times Cataract: Prelim Data

deprivation\_quintile DHB\_of\_service CPAC\_score AgeBand Ethnicity Gender

Importance









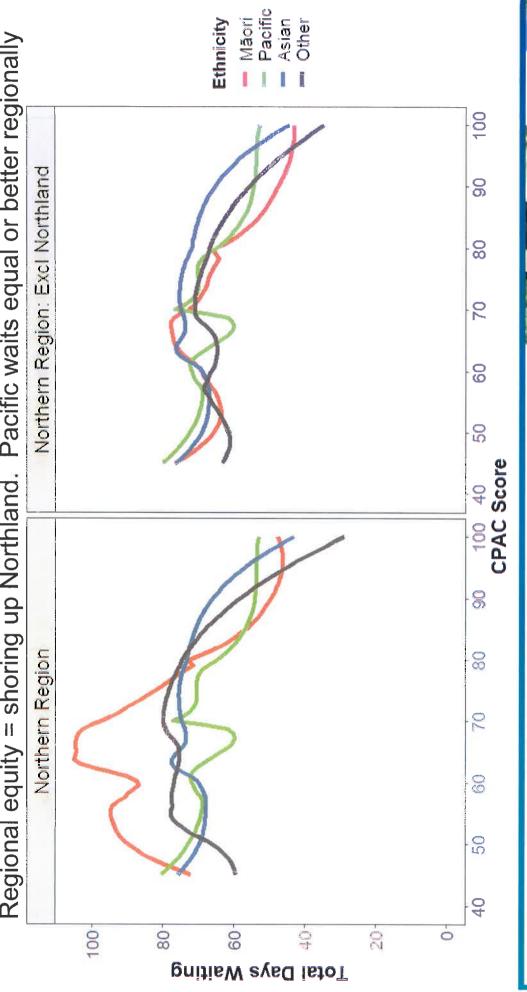






## biggest driver of inequity - largely Northland In analysing wait times, DHB of Service













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## Recommendation #3 – Provide additional regional support to Northland

adjustment model for waiting & ethnicity (ADHB Recommendation #4 - Implement prioritisation led)













## Significant demand pressures age and diabetes

Northern Region	Actuals	uals	2019 from 2015	m 2015
	2015	2019	Change	Change Avg Annual
FSA	19,732	20,671	4.8%	1.2%
FUP	63,236	76,977	21.7%	5.0%
Intraocular injections <sup>1</sup>	8,455	19,600	(131.8%)	23.4%
Orthoptist	12,297	11,901	-3.2%	-0.8%
Laser	3,324	3,647	9.7%	2.3%
Eye Procedures	1,056	1,207	14.3%	3.4%
Nurse Clinics	8,364	8,693	3.9%	1.0%
Diabetes Screening	33,039	35,375	7.1%	1.7%
Cataract	5,571	8,137	46.1%	9.9%
Other Inpatient	5,596	6,186	10.5%	2.5%
All Services	160,670	192,394	19.7%	4.6%

Population Projection Changes

7.0% 1.7%

population

growth

growth almost 3x

Service













Ophthalmology as a regional priority and coordinate investment across the region Recommendation #5 - Committing to







# Equity of Quality/ Outcomes – from ad hoc to systemic



## systematically track quality and outcome equity gaps for ophthalmology across the region Recommendation #6 - Quantify and

#7 - Implement IT tools to support this e.g. CatTrax











# **Equity of Experience**

## Maori & Pacific pathway support & experience



## Common themes:

- e.g. ADHB & CMDHB between services - Navigating
- (what's next, technical - Communication language, style)
- Cost transport, parking etc

ADHB Māori and Pacific Navigators

improvements e.g. reconnection with Resultant system clock 'resetting' practices, patients

> Ophthalmology Services ADHB



Pacific Administrator

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MEALTH

Value regionally to share these insights through new regional 'oversight'











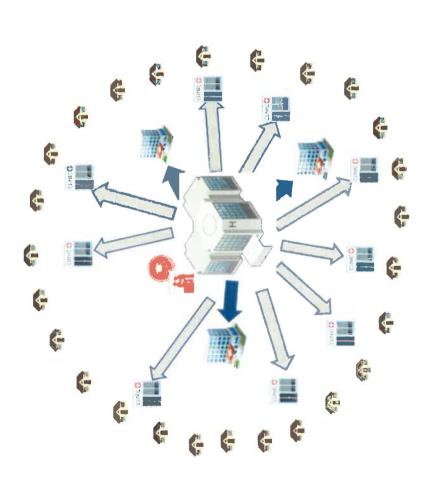




# Greater Regional Working and Oversight

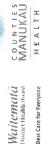


# Greater Regional Working



- regional multi-site service. Key Regional Oversight and more benefits:
- **Great Regional Equity**
- Service resilience e.g staffing in Northland
- Enhanced models of care
- Service efficiency
- Key next step to establish initial staffing, facilities/sites, and implementation, especially funding arrangements group to co-design





NORTHLAND DISTRICT
HEALTH BOARD





Summary



## Action Summary

Support to help options

### Regiona Greate

(e.g. Clinical Portal solutions & IT Technical

## Equity - access

care and follow up to equalise CPAC based models of and commitment Prioritisation & new community thresholds

### Equity - Quality & outcomes

Develop systemic identifying and tracking equity approach to

### Northland equity

cover staffing gaps then longer term

nput/ membership

development. Pacific & Maori

Focus on equity,

pathways &

service

Est. Regional

Oversight

Co-ordinated

pilot of e-referral in access & potential ADHB - key to equity data)

Working

prioritising eyes & equity in 2020/21 & the COVID-19 Investment recovery \$ All DHBs















# **Questions/Feedback?**







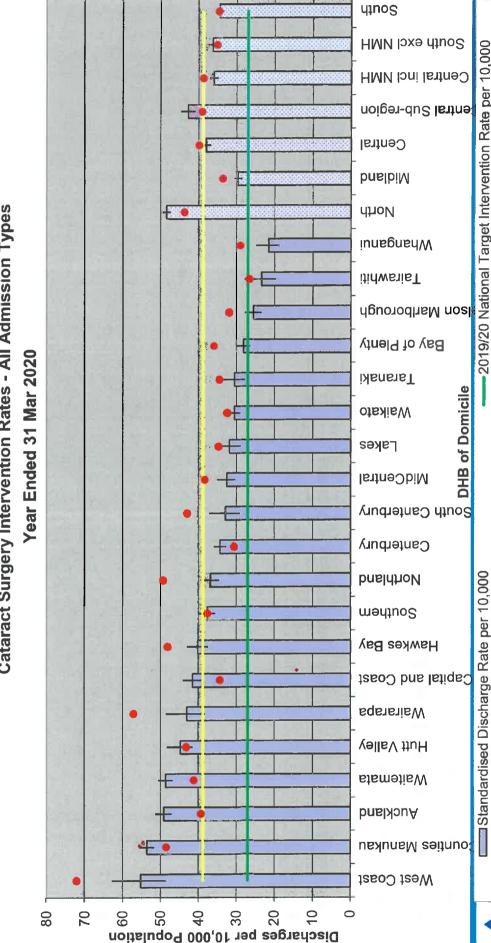






# High intervention rates in Northern Region

Ministry of Health Standardised Intervention Rates (SIRs) - age, gender, ethnicity, deprivation Cataract Surgery Intervention Rates - All Admission Types

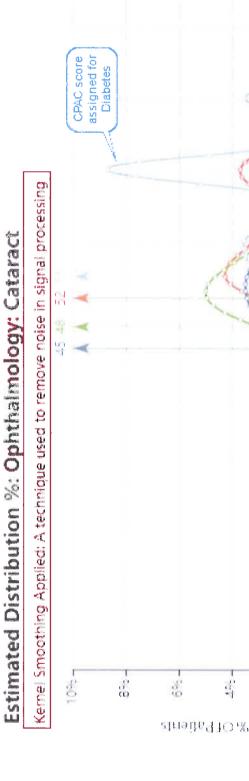


2019/20 National Target Intervention Rate per 10,000

National Discharge Rate per 10,000

Raw Discharge Rate per 10,000

## Regional Alliance Northern CPAC score distribution – non diabetics most affected



Counties Manukau

- Waitemata O- Northland

O- Auckland

Threshold CV

2

C.

180

2

O- Threshold A

W blonsand W O Threshold N

()

(HII)

)









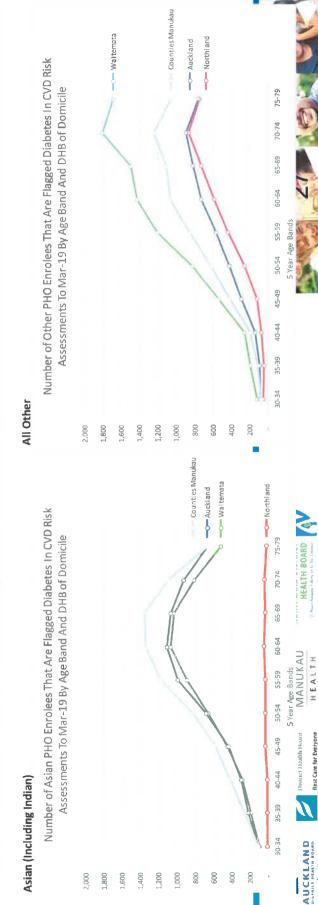
# Contextual Info – Diabetes Population 🦔

Regional Alliance

Northern



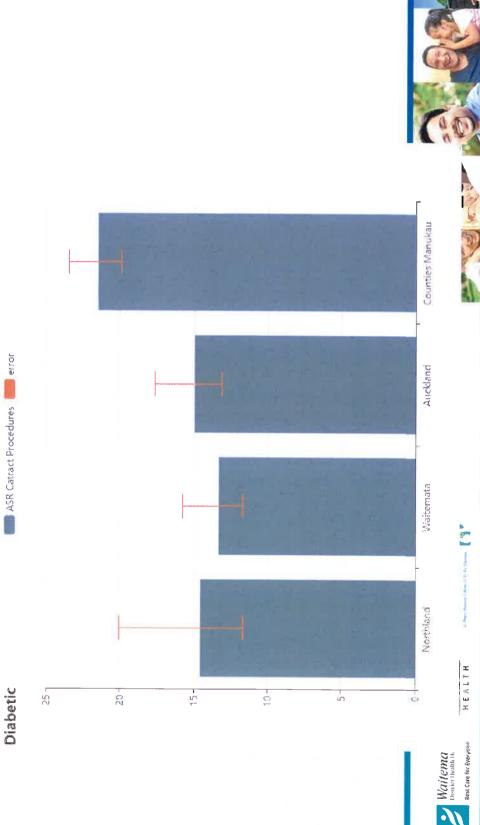
Counties Manukau Northland Number of Pacific PHO Enrolees That Are Flagged Diabetes In CVD Risk Assessments To Mar-19 By Age Band And DHB of Domicile 65-69 70-74 75-79 60-64 50-54 55-59 5 Year Age Bands 45-49 Pacific 1,800 0091 ,400 -O- Northland Counties Manukau compared to other DHBs with less than 800. Waitemata Number of Maori PHO Enrolees That Are Flagged Diabetes In CVD Risk Assessments To Mar-19 By Age Band And DHB of Domicile 62-69 60-64 50-54 55-59 5 Year Age Bands 45-49 40-44 35-39 800 9009 2,000 1,800 1,600 1,400 1,200 1,000





# Standardised Intervention Rates Diabetics

CMDHB currently has the highest age-standardised intervention rate (21.5 per For diabetic population, age-standardised rates (for aged 30+) across DHBs. 1,000), compared to ~15 per 1,000 in other 3 DHBs.







## Regional Vascular Services Re-configuration

Presentation to the Pacific Clinical Technical Advisory Group 9 September 2020













## "Vulnerable Service"

### **Principles**

Services included for this work are:

- not able to maintain appropriate, equitable access for patients without specific actions at regional level OR
- the specific local actions required are not affordable AND
- there is patient benefit in developing a regional service

- Service is not able to maintain or develop capacity resulting in a patient access and safety impact
- Service risks completely failing 2
- Clear opportunity to take a specific regional action to maintain safe or equitable care













## **Problem Statement**

equity of access and consistent quality outcomes for patients across Lack of an integrated, sustainable vascular service that provides the northern region DHBs

## Proposed solution

appropriate levels of qualified staff, both in hours and after hours at each site, Proposal for a regional 'hub and spoke' model with an integrated team, with patients to be transferred to the appropriate centre to receive the consistent with clearly defined and agreed clinical pathways and protocols to allow for quality care for their specific condition at all times.

- parts of region key enabler to improve access to specialist vascular care for Initial equity impact – care closer to home and more accessible across all Maori and Pacific patients.
- What more could/should we be doing?









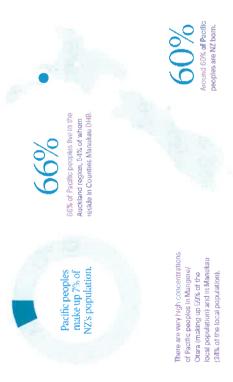


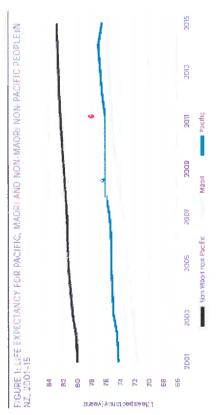




## Pacific Health

### **Demographics and Social Indicators**





SOURCE: MORTALITY COLLECTION IMICHAEL WALSH, EPIDEMIOLOGIST, AUCKLAND DHB AND WAITEMATA



- LE gap approx 6 years
- cardiovascular disease, diabetes and cancer >50% attributable to
- Prevalence of diabetes x2 NMNP (10% vs 5%)
- Prevalence of high BP x1.25 (25% vs 20%)









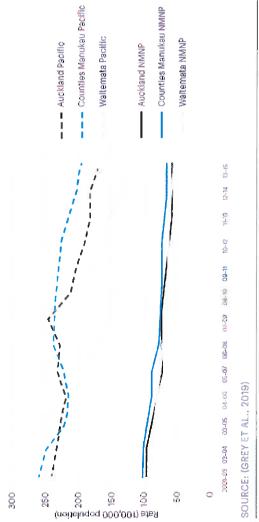






## Pacific Health

FIGURE 3: AMENABLE MORTALITY (2001-2015) FOR PACIFIC AND NMNP PEOPLE AT THE THREE METRO-AUCKLAND DHBS



avoided with effective and Amenable mortality: rate of deaths < 75 yrs that could potentially be timely health care.

remains more than 2x Despite reduction, NMNP

FIGURE 4: SPECIFIC CONDITIONS CONTRIBUTING TO THE LIFE EXPECTANCY GAP FOR PACIFIC MEN AND WOMEN

		Mollett
CVD	1.7 years	1.3 years
Diabetes	0.7 years	0.6 years
Renal failure	0.03 years	0.04 years









HEALTH BOARD





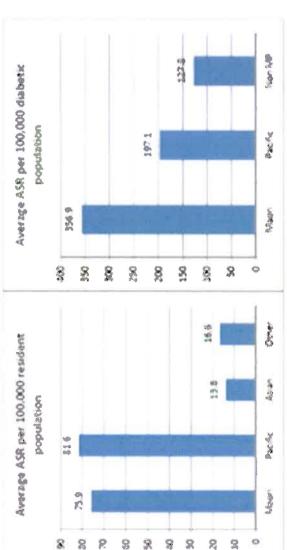


# Lower Limb Amputation - Northern Region

Audit of Diabetes Related Lower Limb Amputations in the Northern Region 2013 – 2016

Prepared for the Regional Diabetes Foot Advisory Group Or Sarah Gruy, Public Mealth Physician, Mealth Gain Team, Planning, Fund**ing** and Outcomes Wattennata DHB Michele Garrett, Podiatry Professional Chincal Leader Auckland and Wat<mark>lemata</mark> DHBS

Vavember 2019



France Average ASR per 100,000 resident / diabetic populations for admissions for diabetes related LLAs July 2013 – June 2016 by ethnicity for the Northern Region

 Prevalence of diabetes in Pacific population higher, driving high overall rate Rate within Pacific diabetic population much lower than Māori, ? indicating better control of risk...but still much higher than NMNP

Average age of Pacific and Māori 60 vs NMNP 70 years.













## ADHB Equity Sprint 2018-19

Vascular – Planned Care Equity Overview

	Māori	Pacific	European	Asian	Other	Māori	Pacific	Pacific European Asian	Asian	Other	Māori	Pacific	European	Asian	Other
			Referrals				Ref	Referrals Rejected	pa			Proportion		Rejected	
Referrals	204	204	1436	227	89	19	23	95	21	10	%6	11%	7%	%6	11%
			Patient Count				Med	Mean Days Waiting	jing						
Waiting for FSA	94	136	006	163	27	64	51	58	09	63					
		Wait	Waiting <= 4 months	ths			Wai	Waiting > 4 months	ths			% Wo	% Waiting > 4 months	ths	
ESP12 Compliance	95	136	006	163	23						%0	%0	%0	%0	%0
		Follow	Follow Up Appointment	ment			Wai	Waitlist for Surgery	ery			Di	Discharge to GP		
FSA Outcome	55	72	465	86	29	3	5	26	3	2	36	59	409	74	26
	%65	23%	25%	23%	51%	3%	4%	3%	5%	4%	38%	43%	45%	45%	46%
			FSA DNAS				-	FSA Attended				Ratio	Ratio of FSA to 1 DNA	NA	
FSA Attendance	36	30	83			103	147	1,209			en	ın	15		
			FSA					FU				Rati	Ratio of FU to 1 FSA	Z.	
FSA to Follow Up															
		Fe	Follow Up DNA				Folly	Follow Up Attended	pap			Ratio	Ratio of FU to 1 DNA	W	
F/U Attendance	36	72	126			246	281	2,407			7	4	19		
		DNA	DNA Procedure / Other	Other			Procedu	Procedure / Other Attended	tended			Ratio of	Ratio of Procedure to 1 DNA	1 DNA	Ę
Procedure Attendance	14	0	31			220	27	1,148			16	16	37		
		Sur	Surgery Completed	pa			Su	Surgery Deferred	Pi			Surg	Surgery Suspended	p:	
Waitlist Outcome	150	139	9009	132	21	27	35	93	13	4	9	I.S.	39	ហ	m
	82%	78%	85%	88%	75%	2%	%9	4%	3%	10%	1%	1%	7%	1%	%8
		Defe	Deferred by Hospital	ital			Deferred	Deferred for Medical Reasons	Reasons			Defe	Deferred by Patient	nt	
Deferral Reason	16	22	58	00	2	9	2	16			ιn	F	19	иŋ	2
	29%	63%	62%	62%	20%	22%	%9	17%	%0	%0	19%	31%	20%	38%	80%
		Suspende	Suspended for Medical Reasons	Reasons			Susp	Suspended by Patient	tient						
Suspend Reason	ന	2	27	2	П	en:	m	12	m	64					
	20%	40%	%69	40%	33%	50%	%09	318	60%	27%					













## Vascular Surgery; Pacific patients **ADHB** Equity Sprint

- Waiting times similar ESPI 2 compliant in all groups
- Mean waits 51 days vs 58 days for NMNP
- DNA rate for FSA 3x higher than for NMNP
- DNA rate for FU 5x higher than for NMNP
- FSA outcomes similar
- 53% vs 52% given FU; 4% vs 3% added to surgical wait list
- Surgery wait times longer ESPI 5
- 12% vs 3% waiting more than 4 months
- 64 days mean vs 41 days
- Procedure attendance excellent no DNA













Vascular Inpatient Discharges (Services provided by CMDHB & ADHB only for all regional DHBs)

2019	Maori	Maori %	Pacific	Pacific %	Other	Other %	Total
ADHB	194	16%	153	12%	1213	72%	1560
СМН	195	17%	283	25%	664	28%	1142
Total	389	14%	436	16%	1877	%69	2702

### 2019 Stats NZ Pop

40 111							
	Maori	Maori %	Pacific	Pacific %	Other	Other %	Other % Grand Total
Auckland	40,440	%8	54,260	11%	399,290	81%	493,990
CMDHB	94,250	16%	127,040	22%	357,360	62%	578,650
Waitemata	63,930	10%	45,100	2%	519,740	83%	628,770
Northland	69,160	36%	4,050	2%	119,960	62%	193,170
Grand Total	267,780	14%	230,450	12%	1,396,350	74%	1,894,580











## Who are our patients? Inpatient ethnicity breakdown v Northern Region Population

Vascular Inpatient Discharges (Services provided by CMDHB & ADHB only for all

is all patients treated in ACH and MMH,

<ul> <li>Reflects all patients treated i</li> </ul>	ie not broken down by DHB	<ul> <li>Higher proportion of Pacific</li> </ul>	given higher disease prevale
regional [	ADHB	СМН	Total
ē, c	4 A	5	ř

•			
2019 SI NZ Pop	Auckland	СМДНВ	Waitem

Northlar

Hub and spoke modelling suggests 50-60 complex arterial cases from total population	"hub"
---	-------

d Total

3,990

3,650

8,770

1142

proportion of Pacific patients expected

nigher disease prevalence

2702

1560

non-comple	spoke"
And 50-100 (12-25 Pacific) non-comple	cases potentially moving to "spoke"









14,580

3,170



MANUKAU

Waitemata Disniet Health Beard

**Grand T** 



## Key Themes - Patient Experience of Vascular Services (ADHB only)



## AREAS FOR IMPROVEMENT

### STRENGTHS

involved me, listened to, not rushed, efficient, professional, kind, smiling, Staff – friendly, pleasant, helpful, good manner, knowledgeable, easy to understand

explained simply, constructive, Information - clear, concise supports decision making

Access closer to home

- Came through strongly for WDHB-domiciled
- Parking!!

## Timeliness to diagnostics/clinics

- f/ups sooner post surgery
- Communication of what needs to happen, by when (ideally by email/text)
- Scan on the same day as clinic

## Phone or telehealth appointments

### Time of clinics

Patient-choice

### Post surgery/ discharge

Communication with patient and family - care and













## Key Themes - Patient Experience of Vascular Services (ADHB only)

No specific Pacific patient group feedback available

Staff -

e poob involve efficiel

Plan to work with Cultural Navigator

teams to acquire further insights

easy t

Inform explair oddns

interpretation services key part of ensuring good communication Importance of language and













## Pacific values that we aim to take account of in service design:

- Central place of family
- Everyone working together to achieve common goals
- Importance of spirituality
- Importance of reciprocity, mutual help and interdependence
- parents, women and people in positions of authority Importance of respect – particularly towards elders,
- Health focus holistic, intertwined with well-being of family and community, rather than on the disease













## Pacific Clinical TAG – Initial thoughts - formal aliance discussion and advice

- Pacific values in service planning are their other issues we need to consider?
- Service access see patients locally rather than patients having to travel
- Access to telehealth advantages/barriers to this?
- Ability to upload vascular assessment and photos onto DHB systems?
- Non-invasive testing options available in community
- Visiting services Nursing/ Podiatry/ Clinical Nurse Specialists links with **GP/Practice Nurses/District Nursing**
- Links with Maori and Pacific health providers
- necessary to be seen by the vascular service or alternative approach to Improve triaging/screening for DHB Vascular services to confirm if really
- machines for checking blood flow (PVD), or measuring aortic dimensions Access to equipment at each centre – mobile vs permanently-based













To	Maaori Clinical Governance Group Pacific Clinical TAG			
From	Richard Sullivan			
	Exec Lead Vulnerable Services ORL			
Date	23 September 2020			
Subject	Paediatric ORL Vulnerable Services Recommendation and Next Steps			
For	REF Decision			
	mendations incur financial costs ously planned /approved?	Yes		

### **Recommendations and Request:**

It is recommended that the Regional Executives Forum:

- 1. Note agreed principles in place across ORL-HNS for adults and paediatrics and this paper outlines the process, solutions and next steps for paediatrics.
- 2. **Note** from undergoing this process it has been agreed that greater co-ordination of secondary Paediatric ORL across the 3 Metro Auckland DHB would provide equitable access and sustainability
- 3. Note a regional process needs to be led in ORL to develop a strategy across the region to sustain Starship as a tertiary provider whilst ensuring secondary care services can be delivered closer to home.
- 4. Note: that there is support for a regional approach with measurable gains for paediatric ORL patients and their whanau however, we are at an early point in the regional discussion and that there will need to be a developmental approach to regional solutions.
- 5. Request funding for a Project Manager, Clinical Lead and a Pathway Project Manager to lead the development of a model of care across the region through further data analysis into pathways and further understanding on inequities which need to be addressed.

### **Background/Context:**

- Post lockdown, the Northern Region's COVID-19 response turned to recovery. A key focus on the
  recovery was on planned care. The NRHCC established the Hospital Capacity Service Improvement
  Steering group to lead an equity focused recovery program for planned care which included a particular
  focus on seven potentially vulnerable services to help them a) recover from the impacts of the COVID-19
  lockdown and b) be more resilient with a particular focus on equity.
- Paediatric ORL was identified as a vulnerable service with no regional consistency in levels of access for children. Three of the DHBs provide a combined adult and paediatric service with challenges to provide consistency of secondary care services and adequate cover 52 weeks of the year. Infrastructure remains a challenge with children often needing to be transferred to Starship due to capacity, equipment, comorbidities and requirement for specialist workforce skills.
- This 'vulnerable services' work was initiated as a rapid process with key regional leads leveraging the
  rapid progress gained under COVID while incorporating some of the longer term goals articulated in the
  LTIP and elective deep dive.













### Paediatric ORL

It was agreed by the steering group on 6 July 2020 this was an opportunity to make a change across the system to address vulnerabilities, particularly with regard to sustainability and impact of equity and patient experience) and principles agreed (Appendix 1). The paediatric discussion has progressed to agree that success will involve:

- Equitable outcomes for all patients
- Appropriate intervention rates, delivered in a timely and sustainable way
- Regional model / approach which supports this

### Key problem

### 1. Equity of access and service provision within secondary care.

It is recognised that there are vulnerabilities within the system for Paediatric ORL in the Northern Region with inequities in access to secondary care treatment, particularly in Metro-Auckland with different thresholds in place. Within Metro-Auckland all DHBs provide FSA outpatients to secondary care patients, however there is variation in access to surgery due to long wait times within some DHBs and variable admission and patient oversight practices.

WDHB contracts ADHB to carry out tonsillectomies, whilst CMDHB is able to undertake this with an admission to Kidz First if necessary. There is recognition that tertiary services, high complexity or patients under multiple tertiary subspecialties will currently need to be carried out a Starship for Paediatrics. This is due to service requirements such as prolonged care, infrastructure such as theatre, equipment, ICU, and access to a range of subspecialties.

Delivery of tertiary care at Starship has been identified as necessary to maintain safe care for complex paediatric ORL patients. The model of secondary care by local DHBs will be considered with the full range of options worked through. Guidelines or updated Models of Care need to be put in place for secondary level care including age, BMI and co-morbidities and what would require a referral to Starship. Further work also needs to be undertaken for greater clarity as to what constitutes secondary care or tertiary referral for FSA. Where patients are referred for tertiary services, the referring DHBs are unable to have a real time view of the patients waiting for assessment or treatment.

High volumes of patients were waiting >4months for an FSA in June NDHB (n=141), WDHB (n=271) ADHB (n=183) and CMDHB (n=75). Patient waiting >4 months for treatment in June has increased in, in NDHB (n=62), WDHB (n=229) and ADHB (n=211) and reduced in CMDHB to one patient.

Currently there is a large amount of activity happening at Auckland for FUP and Inpatients in Paediatrics, which is to be expected in light of Starship being the Tertiary Provider, Waitemata patients are seen at Starship for tonsillectomies. Starship have also provided additional support to WDHB due to reduced capacity due to leave and recruitment issues. Data is reflective of patients being transferred to ACH from WDHB and CMDHB which is particularly evident for inpatient and follow ups.













Table 2 outlines that there is statistical difference in volumes of high need (Maori/Pacific or Deprivation Quintile 5) patients against non-high need for FSAs, Auckland and Counties Manukau are providing large coverage for their DHB of Domicile per 10,000 in comparison to other DHB's.

There is statistical difference in volumes of high need patients against non-high need for FUPs, Auckland is providing large coverage for their DHB of Domicile per 10,000 in comparison to other DHB's.

Table 1: Direct Aged Standardised Rates per 10,000 by High Need (Maori/Pacific or Deprivation Quintile 5) and Non High Need by DHB of Domicile<sup>1</sup>

	F	SA	FE F	UP	ENT N	linor Ops	Inpa	atient
DHB	High need	Non High Need	High need	Non High Need	High need	Non High Need	High need	Non High Need
NDHB	98.7	84.7	189.9	138.8	6.4	7.4	90.8	62.4
WDHB	87.1	79.1	114.7	98.1	4.2	4.5	69.8	52.5
ADHB	143.1	91.2	297.3	163.7	3.9	2.9	103.8	60.7
СМДНВ	138.9	89.9	179.7	114.3	0.6	0.6	60.6	43.1
Northern Region	119.5	85.2	190.3	121.8	3.2	3.4	76.1	53.3

There is no significant difference between the volumes of patients for high need and non-high need being seen for ORL minor ops, there is high coverage in Northland compared to the Metro DHB's

There is statistical difference in volumes of high need patients against non-high need for inpatients, Auckland and Northland are providing large coverage for their DHB of Domicile, with lower volumes being seen per 10,000 for Counties and Waitemata.

### **Recommended Solutions:**

Through the vulnerable services process it has been agreed by the Metro-Auckland DHB's that a regional approach for secondary care services would provide measurable gains for paediatric ORL patients and their whānau. It is acknowledged that we are at an early point in the regional discussion and that there will need to be a developmental approach to regional solutions.

The agreed next steps are:

- 1. Explore the development of a regional waitlist for paediatric ORL patients
- 2. Explore the development of a regional paediatric ORL pathway
- 3. Consider options for improved equity of access and outcomes for paediatric ORL patients

Options that have been identified through regional discussion have been detailed in table 2, it is anticipated that some of the options such a regional waitlist could be achieved to address inequities in access to treatment. Further work needs to be carried out to explore these options to determine what a regional model

<sup>&</sup>lt;sup>1</sup> Please be aware that an age-standardised rate (ASR) has no absolute meaning; it is an artificial number based on a hypothetical population (adults and paediatrics) and is only useful for comparing with other rates calculated in the same manner. The ASR presented here is calculated by the direct method per 10,000. WHO world standard population is used as standard.













of care would look like and how it could be funded and delivered going forward. **Table 2: Options for improved equity of access and outcomes for the region population** 

H		Advantages	Disadvantages	For resolution
1.	Status quo - each DHB delivers to own population, complex tertiary cases to Starship	no change or implementation requirements	Inequities of thresholds, timeliness and outcomes remain. Workforce vulnerabilities remain	Data to identify inequities across the population
2.	Regional waitlist	Visibility of all patients and any inequitable waiting times	Will not result in any direct change regionally for patients or services  Management of the waitlist and the associated ESPIs within one DHB would need to be resourced. Is this a service change?	The feasibility of a regional waitlist, determining what this would include, how patients would be allocated and who would own this.
3.	Joint SMO appointment	Access to surgical expertise across DHBs  Provides care closer to home for patients through the majority of services being provided within the DHB  Maintains and builds on local DHB services	Less attractive to surgeons, complexities around managing leave, professional development, cover etc.	Models of joint appointments elsewhere across the region or nationally, determine full employment issues
4.	Starship delivers regional ORL with some offsite activity for local DHB populations - surgeon only, local theatre teams	Retains anaesthetic and theatre nursing competency Provides care closer to home for patients More sustainable ORL medical workforce	Costly to deliver for employing DHB Limitations around overnight stay for patients Variable inpatient ORL medical presence	Full work-up of change requirements and feasibility
5.	Starship delivers regional ORL with some offsite activity for local DHB populations - surgeon and theatre team	Provides care closer to home for patients More sustainable ORL medical workforce	Reduces anaesthesia and OR nurse competency for children in CMH, WDHB	Full work-up of change requirements and feasibility
6.	Starship delivers regional ORL at Starship and Greenlane	Full suite of ORL sub- specialty expertise, inpatient and daystay cover and nursing expertise.  More sustainable ORL	Loss of anaesthesia and OR nurse competency for children in CMH, WDHB	Full work-up of change requirements and feasibility













### medical workforce

This programme of work will form a sustainable model of care for secondary care paediatric ORL services across the region. This will be monitored and overseen by Starship and with potential to scale across other specialties or population groups over time.

Measurements of success.

- Reduction in waiting times for FSA across the region
- Reduction in waiting times for treatment across the region
- Patient experience
- Patient outcomes

### Recommendation

It is recommended a Project Manager (0.25), Clinical Lead (0.1) lead the process through ADHB with an addition Pathway Project Manager for pathway development (0.5 for 6 months to lead the development of a regional Model of Care across the region through further data analysis into pathways and further understanding on inequities which need to be addressed.

### **Proposed Timeline**

A high-level timeframe for this project is as follows:

Commencement of Project Manager, Clinical Lead and pathway Project Manager	October 2020
Commencement of project team ensuring equity led leadership	October 2020
Detailed analysis of options outlined in Table 1	October – November 2020
Preferred option agreed	November 2020
Identify cost associated with agreed option	December 2020
Business case and implementation plan developed	December - January 2021
Implementation of model of care across the region to commence.	January 2021
Complete implementation plan	May 2021
Review and evaluate pathway approach and model of care	May 2021

The Project Manager and Clinical Lead will report through to ORL Clinical Director of Starship Hospital and General Manager. Reporting will be provided through to the Vulnerable Services group ORL steering group.

### Risk and issues.













If there is not project management and clinical leadership to support this programme of work the service vulnerabilities will endure. If this was not agreed this would require the on-going commitment of GM's and CD's to lead the process resulting in delays and insufficient resource to complete some of the work programme.

Unmet need if there is not robust data analysis on the pathways and projected forecasts within paediatric ORL resulting in revised model of care not being sustainable and not adequately addressing inequities across the population.

Robust leadership and management will be required to ensure the programme of work is not delayed and any future change processes are supported.

Interdependencies with other Functions:	The recommendations will need to work in tandem with the Head and Neck Cancer Accreditation recommendations for Paediatric ORL and Head and Neck.
Equity considerations of recommendations:	This process has been equity driven and informed by service data and clinical expertise with recognised gaps in capturing wider population needs such as social determinants of health.  Further engagement will be sought in the development of the recommendations from Māori and Pacific.
How recommendations align with Treaty responsibilities:	Aligns to regional service design principles including:  - Partnership where these proposals have been reviewed by the Māori Clinical Governance Group and Pacific CTAG in late September and include the recommendations in here.  - Equity as per above  Active Protection of Māori taonga, culture and knowledge as per the Regional Service Design Principles are to be factored into any work moving forward

Cost es	stimate summary for recommend	dations with financial impa	ct:
One-off costs:	Capex: -	Opex:	-\$95,615
Recurrent costs (full year effect):	Capex: -	Орех:	ō
Source of funding, if appr	roved:		
Provider cost within exist	ting provider revenue allocation:		
DHB funder cost pressure	2020/21:	\$65,000	
Pre-commitment to fund	ing round 2021/22+:		
'Alternate source of funds	(please specify details):	Funding applied throu recovery bid for Proje Clinical Lead was sub \$30,615	ect Manager and













Basis for DHB cost split:	BURN
Additional comments (please specify):	Additional resource is needed for a
	project manager across the region to
	support with pathways

### Appendix 1: ORL-HNS Principles Adults and Paediatrics.

- 1. COVID and our regional response to this illuminated a number of service vulnerabilities including paediatric and adult ORL
- 2. Vulnerabilities may include service, workforce and sub-speciality volumes and may vary over time
- 3. There is current variability in equity of access and outcomes regionally which there is a commitment to addressing
- 4. Regional solutions for paediatric and adult ORL-HNS will seek to improve patient safety, quality and health equity
- 5. Decisions about any future changes will be data informed and regionally agreed
- 6. Issues and solutions may be different for adult and paediatric populations and will be considered separately













## Appendix 2: ORL Paediatric snapshot.

## Current Utilisation Profile by DHB of Patient Domicile 2019

			DHB of P	DHB of Patient Domicile (Paeds)	le (Paeds)				DHB of Patient	Domicile (Pa	eds) % Of	DHB of Patient Domicile (Paeds) % Of Northern Region	
						Outside	5000						
				Counties	Northern	Northern							
	Northland	Northland Waitemata Auckland	Auckland	Manukan	Region	Region	Total	Northland	Waitemata	Auckland		Counties Manukan Total	otal
85	517	1445	1338	1969	5269	9 82		5351 9.8%	5% 37.4%		25.4%	37.4%	100.0%
all	77.0	1724	2812	1899	7362	2 149		7511 12.6%	5% Z3.4%		38:2%	25.8%	100.0%
Other Innationt	490			086		185		4183 12.3%	34.2%		29.0%	24.5%	100.0%
hin lostons						7		7 28.6%	5% 42.9%		14.3%	14.3%	100.0%
MT Minor One	21	83	86	18	212	2 15		230 6.1%	39.2%		46.7%	8.5%	100.0%
EA Diene client	1			1	-	7	7	2522 0.0	0.0%	3.3%	1.2%	40000	100.0%
June Cipier EID	200	745	a de la companya de l	2	-	4	1	1767 54.1%	42.2%	%2	1.7%	1.9%	100.0%
Theody Thatrata		-		21	2	22		22 0.0	0.0%		18.2%	p8.2%	100.0%
All Services	2904	5.447	5471	7099	20921	1. 442		21363 13.9%	3% 26.0%		26.2%	33.9%	100.0%

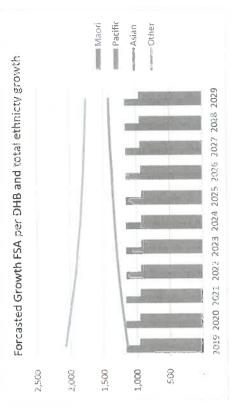
Vote:		
Jote		
_		

- High number of Patient referred for ORL treatment at CMDHB High volumes of patients seen at CMDHB and ADHB
  - High number of FSA in ADHB and CMDHB

    - High FUP in ADHB
- High number of inpatients at ADHB which is to be expected High number of Nurse Clinics FUP at WDHB and NDHB
  - - High number of FSA Dizzy Clinics in CMDHB
- The largest growth across ORL services will be in the Asian population followed by other

## Current Utilisation Profile by DHB Service 2019

		DHB of P	DHB of Patient Service (Paeds)	e (Paeds)			DHB of Pati	ent Service (Pa	3eds) % €	DHB of Patient Service (Paeds) % Of Northern Region	
				Counties							
	Northland	Northland Waitemata Auckland	Auckland	Manukau Total	Total	Northland	Waitemata	Auckland		Counties Manukan Total	
FSA	495	1.073	1,930	1,853	5,351	6	9.3%	20.1%	36.1%	34.6%	100.0%
dil	706		4.434	1,493	7,511	12.	12.1%	%0.6	89.0%	19.9%	100.0%
Other Innationt	440		2.680	588	4,183	10.	10.5%	11.4%	64.1%	14.1%	100.0%
Skin Lecions	7			1	7	28.	28.6% 4	42.9%	14.3%	14.3%	100.0%
ENT Minor One	r.	31	210	,	230	.2.	2.2%	6.5%	91.3%	0.0%	100.0%
ESA Dizzu clinic	9	75		2.217	2,292	Ö	0.0%	3.3%	%0.0	96.7%	100.0%
Nurse Clinics FIIP	963	7	28			24	54.5%	42.3%	1.6%	1.6%	100.0%
Speech Therany	ï		6	13	22	0	%0.0	%0.0	40.9%	59.1%	100.0%
All Services	2812	3066	9292	6193	21363		13.2%	14.4%	43.5%	29.0%	100.0%







### Appendix 3: Reported Current Position 6 July 2020 for Adults and Paeds

### WDHB

- Equity of access to services 45% of patients are declined and referred back to the GP.
- Not seeing any P3
- Growth has caused the biggest challenge.
- Started as an elective service which outgrew resulting in SMO doing work outside of their JD's.
- Resources are limited physical and FTE, no house surgeon, limited SMO due to clinic capacity and no inpatient beds.
- Ability to see patients and operate is hard due to the above
- Support to intensive care and emergency depart
- Cover H&N, paediatrics emergency and aftercare
- Lack of Theatre capacity for ORL

### Paeds (2 September 2020)

- FSA OP secondary patients
- Minimal paediatric audiology
- Inpatient Grommets and adenoids [
   also a few more complex Daystay cases
   - ie. myringoplasty]
- No inpatient tonsils all contracted to ADHB

### **CMDHB**

- ORL-HNS based at MSC and set up as an elective day case service.
- Infrastructure makes it challenging to provide an acute service
- Service is small, with ageing workforce, limits to on call provision and recruitment issues
- Issues working across two sites, no beds at Middlemore for ORL-HNS rely on plastics and ADHB
- Intervention rates for paediatrics is not good, with increasing waiting lists and waiting a long time in comparison to Starship. Starship would not be able cope the current volumes coming through to CMDHB.

### Paeds (2 September 2020)

- FSA OP secondary patients
- 1x Paed ORL SMO shared with ADHBselected tertiary OP
- Inpatient Grommets and adenoids [At CMDHB we do quite a lot of other ORL Paeds Surgery (in older children mainly >10 yrs or so) some nasal and limited FESS surgery, Myringoplasties, a few mastoidectomies, some limited head and neck ie. FNA or node biopsy, skin tags or lesions, pre-auricular sinuses etc.]
- Inpatient tonsillectomies admission
   Kidz First if required(under Paeds Med)
- Longer waiting times than ADHB (& by default WDHB)
- Regular outsourcing to private

### **ADHB**

- Issues with patient care with different intervention rates between DHB's, aftercare and inpatient care
- Metro Auckland access to emergency theatre is restricted resulting in elective patients being cancelled or acute presentation waiting until the end of

### NDHB (12 June 2020)

- Functioning differently in NDHB
- Vulnerable with staffing but in a better position following service plan including peripheral hospital in place and to outsource for recent issues in Private
- Working well in resources but could do better.













the list.

- On call roster is problematic across the region due to clinicians opting out. This is made up of clinicians from each DHB.
- ADHB does not have any SLA's in place with the other DHB's confirming what ADHB should deliver.
- Support required for clinicians across the region
- Two theatres which ORL-HNS do not have access to all of the time. Would be hard to find theatre space if anymore SMO were recruited. Potentially space in CTU but would result in split service.

### Paeds (2 September 2020)

- FSA all ADHB patients and tertiary WDHB/CMDHB
- Inpatient care all ADHB, WDHB tonsils and tertiary WDHB/CMDHB
- Shorter waiting times than CMDHB but
- Regular intra DHB additional lists to manage volumes

- Regional networks for complex and tertiary care and paediatrics are important and could be strengthened
- On-call is different to Metro Auckland
- Intervention rates provide a broad service from paediatrics to extensive H&N and in line with national intervention rates; however, some cases are turned away
- More work could be done on quality of life cases.
- Theatre provision is good with two new theatres being built.













То	Maaori Clinical Governance Group Pacific Clinical TAG		
From	Richard Sullivan		
	Exec Lead Vulnerable Services ORL	and Head and Neck Surgery (HNS).	
Date	23 September 2020		
Subject	ORL-HNS Adult and Paediatrics Vuli	nerable Services Recommendation and Next Steps	
For	Decision		
	mendations incur financial costs pusly planned /approved?	No	

### **Recommendations and Request:**

### It is recommended that:

- 1. Note agreed principles (detailed in appendix 3) in place across ORL-HNS for adults and paediatrics but the process and solutions have been separated and this paper outlines the next steps for Adults only and Paediatrics will be presented separately.
- 2. Note from undergoing this process, which has included two workshops and further clinical lead discussion the Adult ORL-HNS group at this stage is unable to draw to a conclusion what a regional solution would be. There is recognition from the Clinical Leads that four DHB services in their present state will continue to be vulnerable.
- 3. Note there is agreement that the following vulnerabilities in Adult ORL-HNS can be addressed in Phase 1 to include:
  - The acute on-call roster through an HR review of contractual requirements and the establishment of robust processes attached to the recruitment process going forward.
  - SLA's to be established between ADHB as the Regional/Tertiary Provider and the DHB's defining expected service delivery in the Northern Region.
  - Streamlining processes, protocols and models of care where there is regionalisation currently in place for free flap reconstruction.
  - Paediatrics
- 4. Note it is recommended a regional process needs to be led on ORL-HNS to develop a strategy across the region and the required investment using assessment against a Role Delineation Model (RDM) for the non-cancer components.
- 5. Request that option 4 is agreed and a Project Manager and Clinical Lead to lead the RDM assessment and recommended model of care for the region through the development of a 5-year strategy. Resource to be allocated from existing ADHB service management to work across the region to develop the 5 year strategy. This work will be overseen by the steering group.

### **Background/Context:**

Post lockdown, the Northern Region's COVID-19 response turned to recovery. A key part of that recovery was on planned care. The NRHCC established the Hospital Capacity Service Improvement Steering group to lead an equity focused recovery program for Planned Care. The ORL- HNS Services a (Adults and Paediatrics) was













identified as one of the seven vulnerable services who would benefit from a structured recovery programme. The programme is to assist with the recovery from the impacts of the COVID-19 lockdown and the delays to be seen and treated which was an issue pre COVID-19 and to establish a more resilient service within the region with a particular focus on equity.

ORL- HNS is a vulnerable service due to common themes of subspecialisation with little integration across the regions DHBs, inequity of provision of service with different levels of access and prioritisation across the Northern Region. This is resulted in patient delays to FSA and treatment which leads to poor patient experience. Leadership across the region and maintaining a sustainable workforce to meet population need has resulted in capacity constraints which is resulted in patients been transferred to other DHB for treatment. This has resulted in an unsustainable service unable to provide adequate cover 52 weeks of the year.

This 'vulnerable services' work was initiated as a rapid process with a small regional group established including key regional leads so to develop an approach to build a more equitable and resilient service across the region. This includes incorporating some of the longer term goals articulated in the LTIP and elective deep dive. In addition to this there is the acknowledgement of the work has been undertaken through the HNCOG for Head and Neck Cancer a subspecialty of ORL-HNS where an RDM accreditation has been completed identifying gaps in workforce across the pathway and infrastructure in meeting the service level proposed.

### Issues and Implications

### ORL and Head and Neck Surgery (HNS)

It was agreed by the Hospital Capacity Service Improvement/Planned Care Steering group on 6 July 2020 this was an opportunity to make a change across the system to address vulnerabilities particularly with regard to sustainability and impact of equity and patient experience (documented in Appendix 1 and 2). ORL-HNS Adults and Paediatrics agreed principles (Appendix 3) and areas to be addressed in 2 stages:

### Phase 1

- 1. Acute on call roster
- 2. Secondary and tertiary service delivery and streamlining regional processed
- 3. Establishment of SLA's between ADHB and the Regional DHB's
- 4. Paediatrics (submitted separately)

### Phase 2

- 5. ORL-HNS 5 year strategy local and regional delivery including thresholds.
- 6. Recruitment and workforce planning.

### Key problems agreed to addressed.

### 1. Sustainability of the on-call roster for acute care in and after hours

The on call roster for acute care is regionally staffed by SMOs from all 3 Auckland Metro DHBs. There are two rosters to cover Adult ORL-HNS issues: one for General ORL and one for H&N. The on-call roster has been identified as vulnerable and not sustainable due to the number of clinicians exempt (11 out of 29) and no cover for maternity or long term SMO absences. The Table below outlines the FTE and population supported by the General ORL and H&N on call rosters.













Table 1: FTE and population supported by the General ORL and H&N on call rosters per DHB

		SMO's On Roste	r	SMO:100:000	Population		
DHB	H&N	General ORL	Total	Adults (15> years	Total Pop	Exempt from Roster*	Total including exempt
WDHB	2	3	5	1.0	0.8	4	9
ADHB	4	3	7	1.7	1.4	3	10
СМДНВ	3	2	5	1.1	0.7	4	9
Vacancy		1	1				1
Total	9	10	18			11	29

<sup>\*</sup>reasons for exemption vary

The rosters are currently 1 in 9 frequency of call. This is despite one WDHB SMO coming off the General ORL roster in the past year which has been covered by various SMOs as additional duties, with no replacement even though recruitment processes were undertaken.

Several issues have been raised by SMOs regarding the roster, including:

- Non-participation in the roster by a significant proportion of SMOs.
- Older SMOs wish to leave roster at age of 60 years (as has been the tradition), but this is no longer
  possible owing to an ageing workforce, with limited succession planning.
- Increasing SMO workload owing to reduced RMO experience.
- ADHB SMOs take on the majority of care of acutely admitted patients as all patients admitted by a non ADHB SMO are transferred to the care of an ADHB SMO the next day.
- No cover provided for SMO maternity leave or long term SMO absences for various reasons including the lack of ability to recruit to fixed term contracts
- Leave granted to SMOs by WDHB and CMDHB without due consideration to regional roster
- Consultation on changes in the frequency of on call requirements need to be better communicated with SMO's by CD and Service Manager.

It has been identified that there is no consistency with regard to a process on recruitment of SMO's, the requirement to be on the regional on-call roster varies in detail in position description and contract of the SMO's. There is no regionally agreed process for an SMO becoming exempt from participating on the acute on call roster, this is currently carried out at a DHB level between the SMO and CD.

There is no agreed documentation defining which conditions warrant attendance of an ORL SMO for either the Head and Neck or General On Call Roster across Metro Auckland. The only documentation that has been sighted is the *Conditions Warranting On-Call Head and Neck Surgeon Attendance at Peripheral Hospital (WDHB & CMDHB)* 2010 which SMO's /General Managers were unaware of and needs to be reviewed and agreed regionally.

### 2. Equity of access and service provision within secondary care.

It is recognised that due to vulnerabilities within the Northern Region for ORL-HNS this has resulted in inequities in access to treatment, particularly in Metro-Auckland with different thresholds in place (Appendix 1













provides an ORL snapshot and Appendix 2 perceived current position). High volumes of patients waiting >4months for an FSA in June NDHB (n=141), WDHB (n=271) and ADHB (n=183). Patient waiting >4 months for treatment in June has increased in NDHB (n=62), WDHB (n=229) and ADHB (n=211). Note improvement plans should be reflecting improved positions against the numbers of patients waiting.

Data is reflective of patients being transferred to ADHB from WDHB and CMDHB which is particularly evident for inpatient and follow ups where patients would have been treated.

Twenty eight per cent of patients are aged 0-14 years across all DHB's for FSA's (NR=5,144 / 18,353 2) and 41% over the age 50 (50+ NR =7,605/18,353).

Table 2 outlines that there is statistical difference in volumes of high need (Maori/Pacific or Deprivation Quintile 5) patients against non-high need for FSAs. Auckland and Counties Manukau are providing large coverage for their DHB of Domicile patients per 10,000 in comparison to other DHB's.

There is statistical difference in volumes of high need patients against non-high need for FUPs, Auckland is providing large coverage for their DHB of Domicile per 10,000 in comparison to other WDHB and NDHB.

There is no significant difference between the volumes of patients for high need and non-high need being seen for ENT minor ops, there is high coverage in Northland compared to the Metro DHB's.

There is statistical difference in volumes of high need patients against non-high need for inpatients, Auckland and Northland are providing large coverage for their DHB of Domicile patients, with lower volumes being seen per 10,000 for Counties and Waitemata.

Table 2: Direct Aged Standardised Rates per 10,000 by High Need (Maori/Pacific or Deprivation Quintile 5) and Non High Need by DHB of Domicile<sup>1</sup>

100	F	SA	F	UP	ENT	linor Ops	Inpa	atient
DHB	High need	Non High Need	High need	Non High Need	High need	Non High Need	High need	Non High Need
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Northern Region	119.5	85.2	190.3	121.8	3.2	3.4	76.1	53.3

Table 3 highlights the total volumes per 10,000 by ethnicity, this highlights high numbers of activity in Pacific, followed by Asian, Maori and Other.

<sup>&</sup>lt;sup>1</sup> Please be aware that an age-standardised rate (ASR) has no absolute meaning; it is an artificial number based on a hypothetical population (adults and paediatrics) and is only useful for comparing with other rates calculated in the same manner. The ASR presented here is calculated by the direct method per 10,000. WHO world standard population is used as standard.













Table 3: Total volumes by ethnicity per 10,000 population by DHB of Service.

	Nu	mber per 10,	000 populat	ion
	Maori	Pacific	Asian	Other
FSA	33.2	74.8	51.3	31.2
FUP	55.2	120.2	68.5	49.4
ENT Minor Ops	0.9	1.3	1.2	1.4
Other Inpatient	25.4	48.9	22.3	18.5
Total	115	245	143	101

Across the northern region growth is anticipated to be 15.1% over 10 years from 2019 – 2029 or 1.4% per annum in FSA's. Follow ups are anticipated to grow by 14.3% and inpatients by 8.7% in this period. This predicated growth is highlighting the need for sustainable services across the region with the vulnerabilities addressed.

The largest growth across ORL services will be in the Asian population (41.2%) followed by Māori (16.3%), Pacific (14.5%) and then other (4%).

There is recognition that tertiary services, high complexity or high co-morbidly<sup>2</sup> will currently need to be carried out at ADHB for Adults and Paediatrics. This is due service requirements such as prolonged care, infrastructure such as theatre, equipment, ICU, staffing as subspecialties within the tertiary provider. Delivery of tertiary care is clearly defined as well as secondary care procedures that could be delivered by local DHB's, however, the issue that has become evident is that services are currently defined by SMO skill set rather than the requirement of equity of access for the Northern population. This has resulted in thresholds varying across the region with patients referred to where the infrastructure is and skill set to support the clinical need of the patient. More complex cases could be completed in other DHB's where the surgical skill mix is available however due to the size of departments and lack of infrastructure this is not able to occur. There is also risk where there is low volume / high complexity on patient outcomes if SMO's do not get enough practical opportunities to maintain skills and experience which could provide poor patient outcomes.

### Recommendations

- From undergoing this process, the regional working group at this stage is unable to draw to a conclusion what a regional solution would look like despite recognition that the system in its present state will continue to be vulnerable.
- However, it has been acknowledged that there remains a requirement for 4 centres delivering accessible and timely secondary care which is consistent across the region.
- There is further agreement that work needed to be undertaken to develop what a regional solution or model of care would look like.

### Phase 1

### 1. Acute On-Call Roster Metro-Auckland

The acute on call roster can be addressed in phase 1 through a review of contracted requirements through a robust HR process. There needs to be an agreement to ensure the recruitment processes include an

<sup>&</sup>lt;sup>2</sup> This includes complex head and neck cancers and their surgery, neuroOtolgic problems (vestbular schwannomas, CSF leaks), non-cancer upper airway and neck surgery (orbital, inacranial, recurrent), complex endoscopic sinus surgery for complex disease as well as patients requiring prolonged admission for complexity co-mobility where there is not the right infrastructure in the domicile DHB













expectation of participation on the on call roster. Due to a third of the eligible SMO's being exempt from the acute on-call roster has highlighted the vulnerability of having an aging workforce. This will require careful succession planning particularly at CMDHB where a high number of SMO are aged 60+ within OR-HNS department<sup>3</sup>.

### Recommendations

- 1. For all services, applicable wording in PD's and contracts need to align across Metro Auckland by the GM's with HR.
- 2. GM's need to agree with the CD's the documented requirements of the on-call roster across Metro-Auckland.
- 3. A clearly defined process in recruitment to ensure the on call roster is part of the discussion and employment contract across Metro-Auckland.
- 4. The development of a Metro-Auckland process for SMO's coming off the roster and what defines an exemption for participation.
- 5. An SLA needs to be established between ADHB and WDHB and CMDHB detailing the acute on call roster requirements.

### 2. Secondary and tertiary service delivery and streamlining regional processes

Secondary and Tertiary care needs to clearly defined across the region and formally documented in the form of an SLA between DHB's. This results in variation of service delivery.

### Streamlining of processes and protocols regionally

The streamlined treatment of complex head and neck cancer patients that need free flap reconstruction needs to be formalised as a regional process.

This is currently in place for HNC patients discussed at the regional MDM at ADHB where patients are allocated to the appropriate DHB where they can receive their resection/reconstruction. There is a system in place at ADHB for HNC where patients are processed and booked for surgery following the MDM.

The process for co-ordinating complex metastatic skin cancer patients that need free flap reconstruction at CMDHB plastic surgical and ORL department is less defined. NDHB have experience delays with securing a theatre date in CMDHB, pre-assessing patients and providing a smooth patient journey.

### Recommendations

- 1. SLA's to be established between ADHB as the Regional/Tertiary Provider and the DHB's defining expected service delivery in the Northern Region.
- 2. Streamlining processes, protocols and models of care where there is regionalisation currently in place for free flap reconstruction.

### Phase 2

1.Providing equity of access within ORL-HNS secondary care across the Northern Region; particularly Metro-Auckland.

It has been recognised across the working group that a process needs to be undertaken to define what level of service should be provided to enable maturity of services including workforce and infrastructure. Using the Role Delineation Model would create an intention of how services are delivered. This would be for non-cancer

<sup>&</sup>lt;sup>3</sup> Over 7 of the SMO at CMDHB are over 60.













components of the service<sup>4</sup>. A 5-year strategy using LTRIP forecasting detailing expected demand, current capacity and individual service plans. This would include further in-depth analysis into procedures, day cases, inpatient activity elective and non-elective, LOS and associated support services, to enable an informed decision to be made on addressing long term vulnerabilities and a model of care.

Work would need to be undertaken to review waitlist times for treatment.

### Recommendation

A regional programme of work needs to be led on ORL-HNS to using RDM across the region to be led by the ADHB NHC Service with a Project Manager and Clinical Lead to provide a stocktake on current provision and service plans and models of care to ensure a sustainable service across the region. This is so to ensure consistent regional triaging, access and waitlists to provide the same level and access to care across the Northern Region It is recommended that a 5-year strategy across the region taking into account the HNC RDM and recommendations to determine the model of care and investment required across the health system.

### **Recommended Options**

Options going forward to ensure a sustainable and equitable service across the region.

- Option one: status quo which would result in continued risk of vulnerability in the system.
- Option two: address issues that can be achieved in phase 1 to improve sustainability e.g. acute on call
  roster, streamlining regional process, agreeing secondary care thresholds. This is likely to have cost
  implication to DHB's
- Option three: revised model of care across the region for adults to be delivered in phase 2 using the RDM and 5-year strategy to inform. This will determine gaps in the systems which will identify immediate or long term gaps and risks which will need to be addressed.
- Option four: option two and three combined are taken forward to ensure phase 1 issues are mitigated and to develop a model of care to ensure equity of access and sustainability of provision.

It is recommended that option four is taken forward and led by the ADHB Service with a Project Manager (0.25FTE) and Clinical (0.1)FTE lead to take this forward.

### **Actions and Progress**

Action	Progress	Next steps
Metro Auckland Acute On Call Roster -	<ul> <li>PD and contracts across         DHBs demonstrates         variation     </li> <li>SLA being developed by         ADHB to be put in place         with WDHB and CMDHB     </li> <li>Conditions warranting on call requirements is to be reviewed and included as</li> </ul>	<ul> <li>Protocol for exemptions to come off the on-call roaster to be developed and agreed across Metro-Auckland.</li> <li>Agreement to align PD on call roster requirements</li> <li>Agreement to provide cover of long term absences</li> </ul>

<sup>&</sup>lt;sup>4</sup> A RDM has been undertaken for Head and Neck Cancer with recommendations submitted to REF.













	part of SLA.	- Engagement with SCD, GM and HR.
Strengthening Regional Pathways  - Free Flap reconstruction - Paeds	<ul><li>Process at ADHB documented</li></ul>	- JK to work on CMDHB Plastic surgery and ORL pathway for free flap reconstruction
Secondary Care Thresholds	<ul> <li>Agreed what procedures happen and secondary care.</li> </ul>	<ul> <li>Agree referral thresholds across secondary care.</li> </ul>
RDM Appraisal  RDM Framework agreed RDM DHB Assessment RDM ambition		Project Manager and Clinical Lead to be assigned to lead RDM process
Capacity and demand projections across the region     RDM assessment     Secondary care thresholds     Recommended model of care across the region taking into account primary and community care		Project Manager and Clinical Lead to be assigned to lead RDM process.

Interdependencies with other Functions:	The recommendations will need to acknowledge the Head and Neck Cancer Accreditation recommendations and investment.
Equity considerations of recommendations:	This process has been equity driven and informed by service data and clinical experience with recognised gaps in capturing wider population needs such as social determinants of health.  Further advice and collaboration will be sought in the development of the recommendations.
How recommendations align with Treaty responsibilities:	<ul> <li>Aligns to regional service design principles including:         <ul> <li>Partnership where these proposals have been reviewed by the Māori Clinical Governance Group and Pacific CTAG in late September and include the recommendations in here.</li> <li>Equity as per above</li> </ul> </li> <li>Active Protection of Māori taonga, culture and knowledge as per the Regional Service Design Principles are to be factored into any work moving forward</li> </ul>













Cost	estimate summary	for recommendat	tions with financial impac	**:
One-off costs:	Capex:	-	Opex:	-
Recurrent costs (full year effect):	Capex:	-	Opex:	
Source of funding, if app	proved:			
Provider cost within exis	sting provider reve	enue allocation:		
DHB funder cost pressur	re 2020/21:			
Pre-commitment to fund	ding round 2021/2	2+:		
Alternate source of fund	ds (please specify o	details):		
Basis for DHB cost split:				
Additional comments (p	lease specify):		0.25 Project Manager Lead. Resource has no and should be conside services across the reg the steering group.	ot been allocated ered within existing













Forecasted Growth of ORL FSA per DHB and total ethnicity growth

## Appendix 1: ORL snapshot.

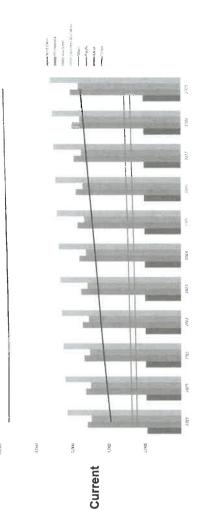
## Current Utilisation Profile by DHB of Patient Domicile 2019

:												
			Counties	Metro	Northern	Outside					Counties	Northern
Northlan	Northland Waitemata	Auckland	Manukan	Auckland	Hegion	Region	Total	Northland Waitemata	Vaitemata	Auckland	Manukan	Region
1,893	161,5	4,968	6,301	16,460	18,353	220	18,573	16.2%	28.35	27.15	34.3%	100%
-SA Dizzy clinic	1,135	138	3,332	4,605	4,606	14	4,620	0.0%	24.6%	3.0%	17.10	100%
Jurse Chritis FUP 3,393	1,277	1,130	376	2,783	6,276	13	6,295	33.7%	36.05	18.0%	6.0%	100%
3.626	Ī	9,334	8,485	24,548	28.164	547	28,711	12.8%	23.9%	33.16	30.1%	100%
Speech Therapy 97	1 65.7	1,252	841	2,745	2,842	75	2,917	3.4%	22.9%	34.1%	29.6%	100%
ENT Minor Ops 215	5 286	88	ស	414	629	30	500	34.2%	#F.5%	15.7%	4.6%	100%
Skin bestons 145	133	63	R	216	361	1	362	\$0.2%	36.8%	17,5%	5.5%	100%
3ronchoscopies 9	22	10	21	53	29	ł	62	12.5%	35.55 B	16.1%	33.9%	300%
ы	33	\$	16	85	35	**	30	2.9%	87.1%	14.35	15.7%	100%
Miner Impatient 1,50%	3,250	3,142	2,780	9,172	10,672	545	11,014	# 14.1%	30.55	29.476	26.0%	100%
All Services 10,970	18,655	20,141	22,201	61,030	72,000	1,242	13,242	15.25	26.0%	出ま	30.5%	100%

## Utilisation Profile by DHB Service 2019

			DHB of Service	ervice			DHE	DHB of Service %	Of No	rthern Region	
				Counties	Metro	Northern				Counties	Northern
	Northland	Vorthland Waitemata	Auckland	Manukan	Auckland	Region	Northland	Waitenista	Auckland	Manukan	Region
FSA	1,793	4,362	6,393	6,025			6.72 10.72	23.5%	34.4%	32.4%	100%
FSA Dizzy clinic	,	1,134	108	3.378	4.620	4,620	0.0%	24.5%	2.3% 關	73.1%	100%
Nurse Chritis FUP	3,521	1,258	1,155	361	2,774	6,205	55.9%	20.0%	18.3%	5.7%	100%
FUP	3,368	4,302	13,605	7,436	25.343	28,711	11.7%	15.0% 部	47.4%	25.9%	100%
Speech Therapy		1.75	2,315	602	2,917	2,917	0.0%	0.0%	79.5%	20.6%	100%
ENT Minor Ops	207	222	211	ğ	442	649	31.9%	34.2% 国	32.5%	1.4%	100%
Skin Lesions	145	133	59	19	22.7	362	45.1%	36.7%	18.0%	5.2%	100%
Bronchoscopies	S	21	12	20	53	62	14.5% 回题	33.9%	19.4% 国	32.3%	100%
Botox	40	1	35	100 - TOTAL	39	96	0.0%	0.0%	100 d		100%
Other Inpatient	1,408	1,375	6,348	1,879	9,605	11,014	12.8% 国	12.5%	37.696		100%
All Services	10,452	12,810	30,251	19,729	62,790	73,242		17.5%	F 52, 22	26.9%	100%





## Note:

- Only FSA, FUP and Other Inpatient ORL activities are close to the expected % of Patients by DHB of Domicile
- High numbers of FUP in ADHB and CMDHB
- Low number of Nurse Clinics FUP at CMDHB
  - Low number of Dizzy Clinics in Northland
- Low numbers of ENT minor Ops in CMDHB
- ADHB provides SLT provision for WDHB patients
- Significant difference in FSA activity between high need and non-high need in Auckland and Counties Manukau DHB and as a Northern Region.
  - Significant difference in FUP activity between high need and non-high need in all DHB of domicile other than WDHB.
- Across the northern region growth is anticipated to be 15.1% from 2019 29 1.4% per annum in FSA's, FUP is anticipated to grow by 14.3% and inpatients by 8.7% in this period.
  - The largest growth is seen in Bronhoscopies over this period of 19.9% (63 in 2020 74 in 2029 perannum).
    - The largest growth across ORL services will be in the Asian population (41.2%) followed by Māori (16.3%), Pacific (14.5%) and then other (4%)







## Appendix 2: Reported Current Position 6 July 2020 for Adults and Paeds

## **WDHB**

- Equity of access to services 45% of patients are declined and referred back to the GP.
- Not seeing any P3
- Growth has caused the biggest challenge.
- Started as an elective service which outgrew resulting in SMO doing work outside of their JD's.
- Resources are limited physical and FTE, no house surgeon, limited SMO due to clinic capacity and no inpatient beds.
- Ability to see patients and operate is hard due to the above
- Support to intensive care and emergency depart
- Cover H&N, paediatrics emergency and aftercare
- Lack of Theatre capacity for ORL

## **CMDHB**

- ORL-HNS based at MSC and set up as an elective day case service.
- Infrastructure makes it challenging to provide an acute service
- Service is small, with ageing workforce, limits to on call provision and recruitment issues
- Issues working across two sites, no beds at Middlemore for ORL-HNS rely on plastics and ADHB
- Intervention rates for paediatrics is not good, with increasing waiting lists and waiting a long time in comparison to Starship. Starship would not be able cope the current volumes coming through to CMDHB.

## ADHB

- Issues with patient care with different intervention rates between DHB's, aftercare and inpatient care
- Metro Auckland access to emergency theatre is restricted resulting in elective patients being cancelled or acute presentation waiting until the end of the list.
- On call roster is problematic across the region due to clinicians opting out. This is made up of clinicians from each DHB.
- ADHB does not have any SLA's in place with the other DHB's confirming what ADHB should deliver.
- Support required for clinicians across the region
- Two theatres which ORL-HNS do not have access to all of the time. Would be hard to find theatre space if anymore SMO were recruited. Potentially space in CTU but would result in split service.

## NDHB (12 June 2020)

- Functioning differently in NDHB
- Vulnerable with staffing but in a better position following service plan including peripheral hospital in place and to outsource for recent issues in Private
- Working well in resources but could do better.
- Regional networks for complex and tertiary care and paediatrics are important and could be strengthened
- On-call is different to Metro Auckland
- Intervention rates provide a broad service from paediatrics to extensive H&N and in line with national intervention rates; however, some cases are turned away
- More work could be done on quality of life cases.
- Theatre provision is good with two new theatres being built.













## Appendix 3: ORL-HNS Principles Adults and Paediatrics.

- 1. COVID and our regional response to this illuminated a number of service vulnerabilities including paediatric and adult ORL
- 2. Vulnerabilities may include service, workforce and sub-speciality volumes and may vary over time
- 3. There is current variability in equity of access and outcomes regionally which there is a commitment to addressing
- 4. Regional solutions for paediatric and adult ORL-HNS will seek to improve patient safety, quality and health equity
- 5. Decisions about any future changes will be data informed and regionally agreed
- 6. Issues and solutions may be different for adult and paediatric populations and will be considered separately













То	Pacific Clinical TAG
From	John Kenealy Exec Lead  Vulnerable Services Sarcoma Project
Date	19 November 2020
Subject	Regional Sarcoma Services Recommendation and Next Steps
For	Feedback
	mendations incur financial costs  ously planned /approved?

## Recommendations

It is recommended that the Pacific Clinical TAG:

- Notes the options for consideration for the Northern Region Sarcoma Service model.
- Endorses that the following immediate changes are taken to mitigate the vulnerability of the existing MDM and lists, pending transition to the agreed option in 2021/22
  - o Address succession planning and funding for the MDM coordinator / data base manager role
  - o Address concern about theatre access for operating lists at the MMH site
  - Address concern of regular access to GA radiology lists (supporting data to be provided).
- Notes the intent that the next stage development of the detail and implementation of change will be
  delivered with project leadership and clinical time as set out in the proposals agreed by REF for
  submission to the Ministry of health funding in response to the call for proposals for sustainability
  projects.

## **Background/Context**

- Post lockdown, the Northern Region's COVID-19 response turned to recovery. The NRHCC established the
  Hospital Capacity Service Improvement Steering group to lead an equity focused recovery program for
  planned care which included a particular focus on seven potentially vulnerable services to help them a)
  recover from the impacts of the COVID-19 lockdown and b) be more resilient with a particular focus on
  equity.
- The Regional Sarcoma Service delivered through Counties Manukau was initially identified as a vulnerable service due to changes in the specialist workforce that led to a change in referral for surgery patterns between CMDHB and ADHB without a clear plan to support a change in provider arrangements and the consequence of sarcoma surgeries displacing patients within the orthopaedic service at Auckland DHB.
- This 'vulnerable services' project was initiated utilising a rapid process with key regional leads leveraging
  the rapid progress gained under COVID, while incorporating some of the longer term goals in the LTIP and
  Cancer Deep Dive. The Executive sponsor for this project is Margie Apa, who has delegated day to day
  leadership to Aroha Haggie and John Kenealy.
- The driver and purpose of this project is to address the issues with regard to orthopaedic sarcoma. Where related services interface and/or could be part of the solutions they are in scope.













## The key problem to solve

## Equity of access and service provision

The regional sarcoma service operates on a split site basis across CMDHB and ADHB but there has been no lead taken by either DHB for planning the combined workforce, capacity and facility requirements of the service across the two providers. There has been a change in the sarcoma patient flow between ADHB and CMDHB, without visibility of the clinical pathway across the region, or coherent service planning to proactively identify and agree the resources required and associated funding.

A key consequence is that the time-critical nature of sarcoma surgery has displaced other patients within the orthopaedic service at ADHB who are already disadvantaged by disproportionately long waiting times for elective surgery.

Data for sarcoma inpatient events for CMDHB and ADHB shows the change in patient flow. Total volumes increased from 2016 to 2017 in CMDHB and subsequently decreased in 2019/20, whilst volumes at ADHB had more than doubled (see Figure 1) and the majority of orthopaedic surgical treatment now takes place at ADHB.

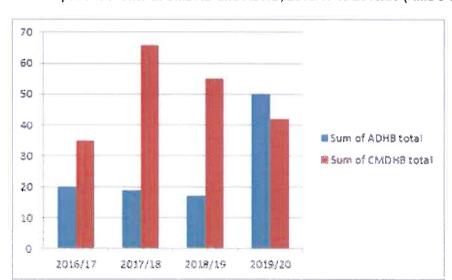


Figure 1. Sarcoma inpatient events at CMDHB and ADHB, 2016/17 to 2019/20 (NMDS data).

Discussion with service leads has identified gaps in the core resourcing of the MDM hosted by Counties Manukau which leave the service highly vulnerable to the loss of a single individual, as well as sporadic access to theatre time for surgery and interventional radiology at CMDHB which is contributing to sustained failure to meet treatment time standards.

Data on costs has not been quality assured but suggests a prima facie case that the current arrangements are not financially sustainable either, with the split site arrangement costing close to \$3m on a WIES income of \$2m for the number and complexity of patients treated. Figure 2 captures the various drivers contributing to fragility of the service.

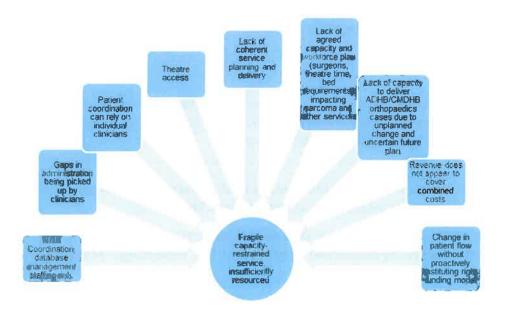
Despite the substantially challenged nature of the organisational arrangements, it is apparent that the nationally recognised MDM expertise in pathology and radiology that is provided by CMDHB clinicians, and the collaborative practice of the orthopaedic surgeons working across DHB boundaries in a regional way, with





highly aligned views about future models of care mean there is the potential to create a high quality centre of excellence and equity for sarcoma care if managerial and service arrangements are addressed.

Figure 2. What's the problem we're trying to solve?



Providing a well-planned and appropriately resourced service will ensure optimal, equitable patient outcomes delivered in a timely manner, and importantly a well sign-posted and coordinated pathway for patients.

## **Current state**

Sarcoma encompasses bone (orthopaedic), soft tissue and retroperitoneal sarcomas. Sarcoma is a low volume, high complexity tumour stream requiring treatment from a highly specialised multidisciplinary team.



Recommendations from the UK National Institute for Clinical Excellence (Improving Outcomes Guidance, IOG) and the London Model of Care for Cancer Services set out the catchment size and minimum volumes by provider for a range of cancer procedures. For sarcoma this was a catchment area of 7 million for bone and 2-3 million for soft tissues with 100 cases per year for soft tissue and bone or 50 for bone if also undertaking 100 for soft tissue. The 2018 NRLTIP Cancer Deep Dive highlighted that 76 new cases in total for the region in 2014 split between two surgical treatment sites with a supra-regional MDM in place at CMDHB was not compliant with these recommendations.<sup>1</sup>

The Sarcoma Multidisciplinary Meeting (MDM) is hosted by CMDHB and accepts referrals from all DHBs in the North Island. The MDM provides key diagnostic expertise to almost 1,000 patients per year, almost 90% of which do not go on to sarcoma surgery. There is specialised sarcoma radiology and pathology expertise at

NRLTIP Cancer Deep Dive – Final Report 2018













CMDHB and specialist surgeons over both ADHB and CMDHB sites. The service has evolved over time due to the high level of expertise of the individuals in the region.

Access to other specialist services in line with tumour pathways such as Paediatric / Adolescents and Young Adults (AYA) Oncology, Medical Oncology and Radiation Oncology, and Plastic Surgery are also key to the provision of comprehensive specialised sarcoma services within the northern region. A view of the current Multidisciplinary Team (MDT) and a pictorial view of the current service model are shown in Appendix 1 and 2, respectively.

## Waiting times

The service under current arrangements has consistently not been meeting Faster Cancer Treatment (FCT) wait time standards for patients for the last year of data collected: the FCT 62-day indicator was met in 78.6 % of patients vs target of 90% over 12 months from July 2019 to June 2020.

## Equity

Sarcoma is a low volume tumour stream and due to the relatively small numbers it has been difficult to make any conclusions with regard to identifying inequities in care for patients with sarcoma.

According to data from the NZ Cancer Registry for new sarcoma registrations in the Northern Region (2015 to 2019) the percentage for Māori and Pacific peoples was 14.31% and 12.74%, respectively. Table 3 shows the data by ethnicity and age group.

Figure 3. New Sarcoma \*Registrations

Ethnicity	0 to 24 years	25 to 64 years	65 years and over	Total
Pacific Peoples	12	40	21	73
Māori	11	45	26	82
European or Other	18	97	249	364
MELAA	1	3	3	7
Asian	8	28	11	47
	50	213	310	573

<sup>\*</sup>mesothelial and soft tissue C45-49, bone and articular cartilage C40-41.

The percentage of Māori and Pacific peoples in the Northern Region population in the same time period was 14% and 12.08% respectively.

The northern region Faster Cancer Treatment performance data does not show a substantial difference between ethnicities, including for Māori or Pacific but the overall numbers are small (see Appendix 3.)

National FCT data have been requested and will be added when available.

The availability of survival data is limited, but the National 5-year survival rates for sarcoma in 2009 and 2010 were 49% and 46%, respectively (see Appendix 4 for survival data; not available by ethnicity).

A survival analysis in Adolescents and Young Adults (AYA) has shown that New Zealand achieves excellent survival outcomes for many common AYA cancers such as lymphomas, germ cell tumours, melanomas, and thyroid carcinomas and has also identified some specific cancers, namely bone and soft tissue sarcomas, CNS tumours, and adolescent ALL, where the overall survival does not currently appear to meet international













benchmarks<sup>2</sup>. In the same study, comparisons by AYA diagnostic group provided evidence of a higher incidence of bone tumours for Maori. Across all cancers in this study, Māori and Pacific had a lower 5-year survival compared with non-Māori/ non-Pacific peoples.

## Patient experience

To date the Northern Cancer Network has not conducted sarcoma patient experience surveys or projects, and no information on sarcoma patient experience was available through the DHB patient experience services or the Cancer Society. Input from a patient perspective will be sought in this project.

## What does good look like?

There is compelling evidence that for complex cancer procedures there is a positive relationship between the volume of patients that cancer services see and the outcomes that they achieve. This evidence suggests that perioperative mortality and long-term survival improves as hospital surgical volumes increase.

The Northern Region Expert Group has met several times over the past few months to discuss and work up what good looks like for a specialist sarcoma service, based on international literature and local experience. Figure 4 shows a summary of the aspirational picture agreed by the regional expert group.

Figure 4. What does good look like - the aspirational picture.



## What does good look like?

- Equitable access to treatment and outcomes for patients irrespective of domicile DHB
- · Care is responsive to individual patient and family needs and priorities
- · Appropriate support and rehabilitation for all people
- Continuity of access to regional specialist sarcoma expertise including an extended team of professionals including nursing, pathology, radiology, radiation encology, medical encology, allied health.
- Building on successful MDM with more systematised support
- Integration of specialised sarcoma cancer services
- Regionally agreed and costed service model in place including capacity, demand, infrastructure, workforce etc to ensure:
  - Resource in place to support and sustain delivery of high quality multidisciplinary care
  - Clerical support for clinicians
  - Theatre, clinic access etc.
- Funding plan agreed proactively



<sup>&</sup>lt;sup>2</sup> Ballantine et al. Small Numbers Big Challenges: Adolescent and Young Adult Cancer Incidence and Survival in New Zealand. Journal of AYA Oncology. Vol 6, No 2, 2017.













At a workshop on 09 October 2020, the expert group agreed the following principles when considering the aspirational picture of what good looks like in the context of the northern region:

- Ideally each subspecialty would be on the same site
- Medical Oncology, Radiation Oncology and Paediatric Oncology/AYA can currently only be delivered at ADHB.
- Pathology and Radiology should be on the same site and they are part of wider specialist teams and work closely together.
- Most Radiology can be done at the local DHB with oversight from specialist sarcoma radiologists if the right clinical pathways and protocols and payment mechanisms are in place.
- Sarcoma surgeons (including Paediatric Oncology/AYA) should be located on the same site to facilitate working together and optimal patient care.
- Although noted that pathology should ideally be located with surgeons due to advantages for frozen sections and in-person conversations.
- Sarcoma patients should have access to clinical trials. Clinical trials are accessed through medical
  oncology at ADHB as the national accredited centre. Colocation at ACH fosters opportunity to expand
  trials access for sarcoma patients.
- Sarcoma service coordination (includes MDM coordination) should incorporate database management

## **Options for consideration**

On the basis of the aspirational picture of what good looks like and the principles agreed by the expert group, the following are the options for consideration (see Appendix 5 for full options analysis):

Single site for all tertiary and quaternary services related to sarcoma (Option 1 or Option 2).

Noted difficulties with these options currently are:

- Option 1: establishing sarcoma pathology and radiology expertise at ADHB
- Option 2: Radiation Oncology, Medical Oncology and Paediatric Oncology delivered at ACH
- Dual site options:
  - All treatment at ACH and sarcoma service coordination/ database management with Pathology and Radiology at MMH (Option 3a) or All treatment and sarcoma service coordination/ database management at ACH, with Pathology and Radiology at MMH (Option 3b).
  - All adult surgery at MMH with Pathology and Radiology and sarcoma service coordination/ database management; other aspects of treatment at Auckland City Hospital (Option 4)

Essentially both options 3a and 3b mean that all surgeons are on one site to facilitate collaborative working, both between the sarcoma surgeons and with the other treatment modalities (medical oncology, radiation oncology and paediatric oncology), but are on a separate site from pathology and radiology. The items for resolution include the location of the sarcoma service coordination/ database management, protocols for when frozen sections and plastic surgery are required, and workforce planning to cover the non-sarcoma component of CMDHB sarcoma surgeon (25-30% of FTE) and orthopaedic backfill at ACH.

And option 4 means that the sarcoma surgeons are on the same site as pathology and radiology, but separate from medical oncology, radiation oncology and paediatric oncology.













It is recommended that the lead site for surgery take the lead on capacity planning and management of the service overall whether on its own site or at an alternate site to ensure there is clear management and accountability for the whole tertiary care pathway. Noted that according to NICE guidelines<sup>3</sup>, there should be a nominated clinician (clinical lead) who takes responsibility for the service and this should be reflected in their job plan. The clinical lead should be a member of the core MDT.

Noted that the site on which surgery capacity is centralised will need to provide required weekly theatre sessions and weekly clinic hours on site, to ensure the service has sufficient capacity to maintain waiting time standards as an essential quality requirement ((data for weekly theatre session and clinic hours to be provided)). It is recognised that for ACH or MMH this could require consideration of other work moving out of the site to make room to accommodate the service, and where this is not possible it may result in a reduction of access.

The service needs to deliver equitable access to treatment and outcomes for patients irrespective of domicile DHB and care that is responsive to the individual needs of patients, in particular to those who are most vulnerable. This includes having clear and visible pathways with attention to seamless coordination for patients throughout their journey.

## Recommendations

- Note the options for consideration for the Northern Region Sarcoma Service model.
- Endorse that the following immediate changes are taken to mitigate the vulnerability of the existing
   MDM and lists, pending transition to the agreed option in 2021/22
  - o Address succession planning and funding for the MDM coordinator / data base manager role.
  - o Address concern about theatre access for operating lists at the MMH site.
  - o Address concern of regular access to GA radiology lists (supporting data to be provided).
- Note the intent that the next stage development of the detail and implementation of change will be
  delivered with project leadership and clinical time as set out in the proposals agreed by REF for
  submission to the Ministry of health funding in response to the call for proposals for sustainability
  projects.

NICE Guidance available at https://www.nice.org.uk/guidance/csg9/resources/improving-outcomes-for-people-with-sarcoma-update-pdf-773381485













## Appendix 1.

## The regional multidisciplinary team

	ADHB	СМОНВ	
Core Multidisciplinary Team	Tariff Committee		NICE guidance Specification <sup>4</sup>
Specialist sarcoma surgeon	1 person, 0.8 FTE (orthopaedic) 1 person, FTE TBC (retroperitoneal)	1 person (0.70-0.75 FTE) (orthopaedic)	Min of 2 per MDT (These surgeons should have a major clinical interest in sarcoma)
Sarcoma clinical nurse specialist	ТВС	1 person, 1 FTE	Sufficient to allocate a clinical nurse specialist/key worker for each patient (but a minimum of two)
Specialist sarcoma pathologist	20	5 people* 2.5 FTE	At least one and ideally two
Specialist sarcoma radiologist		2.0 FTE	At least two with a special interest in musculoskeletal/oncological imaging
Medical Oncologist	2 people 0,4 FTE	12.	
Radiation Oncologist	TBC		
MDM Coordinator and secretariat support	N/A	Currently admin FTE in radiology; FTE TBC	
Palliative care specialist			
Extended Multidisciplinary Team			NICE guidance Specification
Specialist sarcoma physiotherapist			
Specialised allied health professionals			Consisting of other relevant AHPs, such as therapy radiographers, occupational therapists, dietitians and social workers access to counsellors and/or psychologists
Specialist nurses			Including palliative care nurses and appropriately trained ward staff
Paediatric oncologist**	1 person, FTE TBC		
Other professionals including orthopaedic, plastic, head and neck, gynaecological, GI and vascular surgeons			

<sup>\*</sup>Currently spread across 5 people, needs to be ≥3 people to allow for cover

 $<sup>^4</sup>$  NICE Guidance available at https://www.nice.org.uk/guidance/csg9/resources/improving-outcomes-for-people-with-sarcoma-update-pdf-773381485









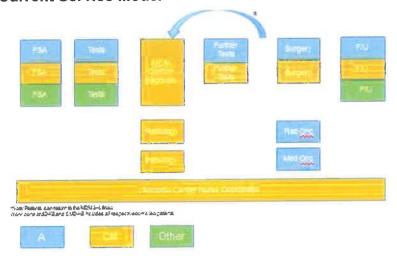


<sup>\*\*</sup>For Adolescents and Young Adults, there is crossover between ADHB orthopaedic oncology surgeon and paediatric sarcoma surgeon



## Appendix 2.

## **Current Service Model**













## Appendix 3.

## Northern Region FCT performance for sarcoma by ethnicity (2019/2020)

	Asian	European	Maori	Other	Pacific	Total
NDHB	0	5/5	2/2		0/0	7/7
WDHB	1/1	21/22	3/3	1/1	2/2	28/29
ADHB	1/3	9/10	3/3		3/4	16/20
CMDHB	3/3	10/11	3/3		9/10	25/27
Total	5/7	45/48	11/11	1/1	14/16	76/83













## Appendix 4.

## Survival (%) by sarcoma type and region 2009- 2010.

Note 5yr survival can't be calculated beyond 2010

ICD 10 code C40, C41, C46, C48, C49

בר דם נסמע	(10, (17)	C+0, C+T, C+0, C+0, C+3	0, 543							
			2009					2010		
	<1yr	1yr	3yr	5yr	Total	<1yr	1yr	3yr	5yr	Total
Northern										
Bone	21%	21%	21%	36%	100%	11%	22%	%9	61%	100%
Soft tissue	792	20%	7%	46%	100%	37%	17%	%9	40%	100%
Midland										
Bone	25%	%0	%0	75%	100%	10%	30%	%0	%09	100%
Soft tissue	48%	%8	%0	44%	100%	28%	19%	11%	42%	100%
Central										
Bone	38%	%0	%0	93%	100%	%0	13%	13%	73%	100%
Soft tissue	792	13%	13%	47%	100%	21%	38%	%8	33%	100%
Southern										
Bone	22%	11%	%0	%19	100%	17%	17%	%0	829	100%
Soft tissue	15%	30%	3%	52%	100%	18%	24%	11%	47%	100%
Overseas										
Soft tissue										
Grand Total	27%	17%	2%	49%	100%	22%	23%	8%	46%	100%





# Continued: Survival (%) by sarcoma type and region, 2011-2013

Note 5yr survival can't be calculated beyond 2010

Specimen			2011					2012				20	2013	The control of the co
	<1yr	1yr	3yr	>3yrs	Total	<1yr	1yr	3yr	>3yrs	Total	<1yr	1yr	>3yrs	Total
Northern														
Bone	%0	%6	%6	82%	100%	18%	18%	%9	29%	100%	79%	10%	62%	100%
Soft											į			
tissue	14%	17%	%9	63%	100%	12%	24%	2%	92%	100%	15%	15%	%69	100%
Midland														
Bone	25%	25%	25%	25%	100%	22%	22%	11%	44%	100%	14%	14%	71%	100%
Soft								1			ò	ò	i L	ì
tissue	792	11%	11%	51%	100%	30%	21%	%0	48%	100%	23%	13%	65%	100%
Central														
Bone	%0	20%	%0	20%	100%	30%	10%	2%	25%	100%	%6	27%	64%	100%
Soft													27.20	
tissue	18%	21%	4%	21%	100%	16%	28%	%9	20%	100%	16%	19%	%99	100%
Southern														
Bone	%0	22%	%0	78%	100%	10%	30%	%0	%09	100%	40%	10%	20%	100%
Soft														
tissue	32%	11%	8%	20%	100%	28%	%6	%0	63%	100%	23%	23%	25%	100%
Overseas														
Soft														
tissue				100%	100%				100%	100%	to the remaining the second se	The state of the s		
Grand														
Total	19%	16%	7%	28%	100%	21%	20%	3%	%95	100%	20%	17%	<b>63%</b>	100%





## Appendix 5.

Table 1. Options analysis for regional sarcoma service model

	1) Have all	2) Have all	3a) Have all	3b) Have all	4) Have all sarcoma	5) Current model:
	specialties at	specialties at	sarcoma surgeons	sarcoma	surgeons, and	sarcoma
	ADHB	СМДНВ	on one site at	surgeons, and	sarcoma service	orthopaedic
			ADHB	sarcoma	coordination/	surgery split over 2
				service	database	sites
				database	one site at CMDHB	
				management		
				on one site at		
What does this	All specialties at ADHB	All specialties at CMDHB	Surgeons together and	Surgeons together and	Surgeons together and	Surgeons across two
		(Note the difficulty of	with rad onc, med onc	with rad onc, med onc,	with sarcoma service	sites. Pathology and
		having rad onc, med onc	and paed onc but	paed onc and sarcoma	coordination, pathology	radiology together on
		and paed onc at CMH)	separate from sarcoma	service coordination, but	and radiology but	one site and rad onc,
			service coordination,	separate from	separate from	med onc and paed onc
			pathology and radiology	pathology and radiology	rad onc, med onc and	together on other site.
					paed onc.	Note the following
						immediate changes to
						mitigate vulnerabilities:
						-succession planning for
						sarcoma service
						coordinator
						-availability of theatre
						lists at MMH and GA
						radiology lists
Advantages	-Ideal model of all	Ideal model of all	-Facilitates collaboration	-Facilitates collaboration	-Facilitates collaboration	-Note immediate
	specialties on one site	specialties on one site	between sarcoma	between sarcoma	between sarcoma	changes above
	providing integrated	providing integrated	orthopaedic surgeons,	orthopaedic surgeons,	orthopaedic surgeons,	
	specialised sarcoma	specialised sarcoma	including scheduling of	including scheduling of	including scheduling of	
	service	service	combined surgeries.	combined surgeries.	combined surgeries.	
	-Fosters opportunity to		-facilitates collaboration	-Better collaboration	-In line with current	





Disadvantages For resolution	expand trials access for sarcoma patients -Not ideal to move pathology and radiology from CMDHB because it is part of a wider specialist workforce -No Resident Plastic Surgery service -Increases capacity pressure at ADHB -Impact of establishing pathology and radiology at ADHB -Management and leadership arrangements -Funding agreement - Strategy for when Plastic surgery needed	-Expert group agreed not possible to move medical oncology, radiation oncology to CMDHB lncreases capacity pressures at CMH pressures at CMH oncology and paediatric oncology at CMDHB is a barrier -Clinic and theatre capacity requirements available at CMDHB	with AYA/Paeds, medical oncology and radiation oncology (combined clinics) - only move one clinician for benefits above - Fosters opportunity to expand trials access for sarcoma patients - MDM not on the same site as surgeons - MDM not on the same site as CNS - No Resident Plastic Surgery service Increases capacity pressure at ADHB  - Strategy for when frozen sections needed - Strategy for when Plastic surgery needed (Provision of off-site complex plastic surgery reconstruction is suboptimal)	with AYA/Paeds, medical oncology and radiation oncology (combined clinics) -Fosters opportunity to expand trials access for sarcoma patients -MDM not on the same site as pathology and radiology -No Resident Plastic - Surgery service Increases capacity pressure at ADHB -Logistics of establishing the sarcoma service coordination at ADHB -Management and leadership arrangementsFunding agreement Strategy for when Plastic surgery needed	agreed IDF funding arrangements  -Sarcoma orthopaedic surgeons not with other general sarcoma and paediatric surgeons, medical oncology and radiation oncology, for collaboration and combined clinics.  -Increases capacity pressures at CMH -Clinic and theatre capacity requirements available at CMDHB -Management and leadership arrangements -Funding agreement	-Pathways not visible to the region -Funding model not agreed -Hinders collaboration between sarcoma surgeons -Current pressure on orthopaedics at ADHB not resolved -Service planning would need to be undertaken for 21/22 to ensure the right funding plan was in place to ensure sustainability -Management and leadership arrangements
Plastic surgery needs (Provision of off-site	ded	available at CMDHB -Management and	suboptimal) -All clinic and theatre	Plastic surgery needed (Provision of off-site		leadership arrangements
2 ĕ 5	complex plastic surgery reconstruction is	leadership arrangements - Funding agreement	place	complex plastic surgery reconstruction is		
	subopumaij		elVlanagement and leadership arrangements	suboptimal)		







Table 2. Description of options for regional sarcoma service model.

5) Have all specialties on one site at CMDHB	`	>	<b>&gt;</b>	<b>&gt; &gt;</b>
4) Current model: sarcoma orthopaed surgery split over 2 sites	×	×	>	* *
3) Move sarcoma orthopaed surgery on one site at CMDHB	<b>&gt;</b>	<b>5</b> ¢	<b>&gt;</b>	<b>&gt;</b>
2b) Move sarcoma orthopaed surgery and MDM on one site at ADHB	<b>&gt;</b>	,	<b>&gt;</b> *	> ×
2a) Move sarcoma orthopaed surgery on one site at ADHB	<b>&gt;</b>		•	* *
1) Have all specialtie s on one site at ADHB	>	>	\ \ \ \ \	<b>\</b>
	Orthopaedic sarcoma surgeons on same site	Orthopaedic sarcoma surgeons with general and paediatric sarcoma surgeons, medical oncology and radiation oncology	Pathology and radiology on the same site together MDM on same site as pathology and radiology	MDM on same site as surgeons MDM on same site as pathology and radiology and surgeons





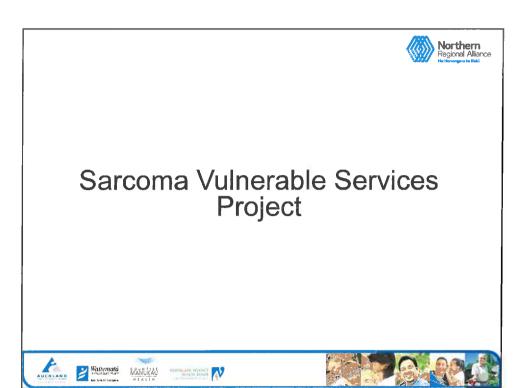




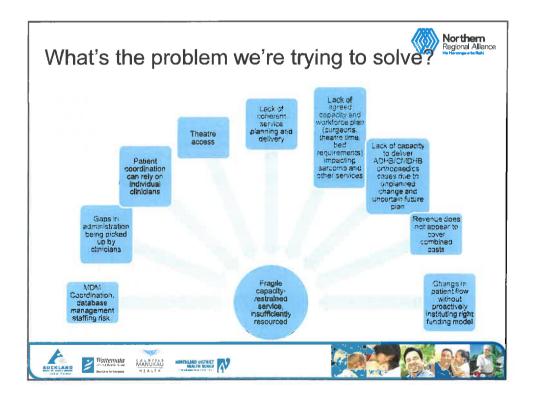














## What does good look like?

- Equitable access to treatment and outcomes for patients irrespective of domicile DHB
- Care is responsive to individual patient and family needs and priorities
- Appropriate support and rehabilitation for all people
- Continuity of access to regional specialist sarcoma expertise including an extended team of professionals including nursing, pathology, radiology, radiology, radiology, radiology, medical oncology, allied health.
- Building on successful MDM with more systematised support
- Integration of specialised sarcoma cancer services
- Regionally agreed and costed service model in place including capacity, demand, infrastructure, workforce etc to ensure:
  - Resource in place to support and sustain delivery of high quality multidisciplinary care
  - Clerical support for clinicians
  - Theatre, clinic access etc.
- Funding plan agreed proactively











## **Equity**



- Sarcoma is a low volume tumour stream and due to the small numbers it is difficult to identify inequities in care from regional data.
- The Northern Region data showing wait times did not show a substantial difference between ethnicities (including for Māori or Pacific), but the numbers were small; National FCT data have been requested.
- For new sarcoma registrations in the Northern Region (2015 to 2019) the percentage in Māori and Pacific peoples was 14.31% and 12.74%. Data by ethnicity and age are shown below. The percentage of Māori and Pacific peoples in the population in the same time period was 14% and 12.08% respectively.

Ethnic)tv		25 to 64 years	65 years and over	Total
Pacific Peoples	12	40	21	73
Magri	11	45	26	82
European or Other	18	97	249	364
MFLAA		3	3	7
Asian	8	28	- 11	47
	50	212	310	573

- A NZ survival analysis in Adolescents and Young Adults (AYA) showed excellent survival for many common cancers but overall survival in some cancers including bone and soft tissue cancers do not meet international benchmarks. There was a higher incidence of bone tumours in Māori.
- AYA analysis showed for all cancers Māori and Pacific had a lower 5-year survival compared with non-Māori/non-Pacific peoples.











## Agreed principles

- Ideally each subspecialty would be on the same site
- Medical Oncology, Radiation Oncology and Paediatric Oncology/AYA currently only delivered at ADHB.
- Pathology and Radiology are part of wider specialist teams and work closely
- Most Radiology can be done at the local DHB with oversight by specialist sarcoma radiologists if the right clinical pathways and protocols and payment mechanisms are in place.
- Sarcoma surgeons (including Paediatric Oncology/AYA) should be located on the same site to facilitate working together and optimal patient care.
- Sarcoma patients should have access to clinical trials. Clinical trials are accessed through medical oncology at ADHB as the national accredited centre. Colocation at ACH fosters opportunity to expand trials access for sarcoma
- Sarcoma service coordination (includes MDM coordination) should incorporate database management













## Agreed immediate needs

- Address succession planning and funding for the MDM coordinator / data base manager role
- Address concern about theatre access for operating lists at the MMH site.
- Address concern of regular access to GA radiology lists (supporting data to be provided).
- Consider merits and feasibility of service model changes













## Service model options for consideration

- Single site for all tertiary and quaternary services related to sarcoma (Option 1 at ADHB or Option 2 at CMH).
- Dual site options:

All treatment at ADHB, and sarcoma service coordination/ database management with Pathology and Radiology at CMH (Option 3a) or All treatment and sarcoma service coordination/ database management at ADHB, with Pathology and Radiology at CMH (Option 3b).

All adult surgery at MMH with Pathology and Radiology and sarcoma service coordination/ database management; other aspects of treatment at ADHB (Option 4)













## Process to agree recommended model

- Week starting 16 Nov:
  - Canvas Expert Group including CNS, Allied Health, Plastic Surgery, General Orthopaedics, wider surgical services for feedback on service model options including resolutions and preferred option.
  - Confirm any relevant outstanding data requirements (e.g. weekly theatre session and clinic hours, National FCT data)
  - Seek input from a patient perspective
- Week starting 30 Nov:
  - Collate and review expert group feedback
  - Draft report with recommended option
  - Request endorsement of recommended model
- Next stage of development: develop detail and implementation plan











## Te Kahui Arataki – Maori Clinical Governance

Compiled papers relating to Vulnerable Services on following meeting dates:

- 20 August 2020
- 3 September 2020
- 1 October 2020
- 12 November 2020





## Regional Vascular Services Re-configuration

Presentation to the Maaori Clinical Governance Roopu 20 August 2020













## **Problem Statement**

Lack of an integrated, sustainable vascular service that provides equity of access and consistent quality outcomes for patients across the northern region DHBs

## Proposed solution

Proposal for a regional 'hub and spoke' model with an integrated team, with appropriate levels of qualified staff, both in hours and after hours at each site, with clearly defined and agreed clinical pathways and protocols to allow for patients to be transferred to the appropriate centre to receive the consistent quality care for their specific condition at all times.

- Initial equity impact care closer to home and more accessible across all parts of region key enabler to improve access to specialist vascular care for Maori and Pacific patients.
  - What more could/should we be doing?

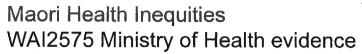














### Total cardiovascular disease mortality

- · More than two and a half times higher for Maori than for non-Maori
- Cardiovascular disease
- · Maori were twice as likely to be hospitalised than non-Maori

### Lower Limb Amputation

- Lower limb amputation with concurrent diabetes were five times higher for Maori compared with non-Maori
- Lower limb amputations for Maori can be estimated as occurring at nearly twice the rate of non-Maori

## Renal failure

- Population rates of renal failure with concurrent diabetes (aged 15+) were 9.4 times higher in Maori compared with non-Maori
- Maori are three and a half times more likely to have renal failure than non-Maori

## \*Inequity in Dialysis-related practices and outcomes (Huria T et al, 2018)

- Fewer Maori start dialysis with an arteriovenous fistula than non-Maori (23% v 26%)
- More Maori start dialysis with a non-tunnelled central venous catheter than non-Maori (47% v 43%)













## Key Themes - Patient Experience of Vascular Services (ADHB only)



## **STRENGTHS**

Staff – friendly, pleasant, helpful, involved me, listened to, not rushed, good manner, knowledgeable, efficient, professional, kind, smiling, easy to understand

**Information** – clear, concise explained simply, constructive, supports decision making

## AREAS FOR IMPROVEMENT

## Access closer to home

- Came through strongly for WDHB-domiciled patients
- Parking!!

## Timeliness to diagnostics/clinics

- > f/ups sooner post surgery
- Communication of what needs to happen, by when (ideally by email/text)
- Scan on the same day as clinic

## Phone or telehealth appointments

## Time of clinics

Patient-choice

## Post surgery/ discharge

 Communication with patient and family - care and after effects











## **Northern** Regional Alliance Who are our patients? Inpatient ethnicity breakdown v Northern Region Population

Vascular Inpatient Discharges (Services provided by CMDHB & ADHB only for all regional DHBs)

2019	Maori	Maori %	Pacific	Pacific %	Other	Other %	Total
ADHB	194	16%	153	12%	1213	72%	1560
CMH	195	17%	283	25%	664	58%	1142
Total	389	14%	436	16%	1877	69%	2702

## 2019 Stats NZ Pop

	Maori	Maori %	Pacific	Pacific %	Other	Other %	Grand Total
Auckland	40,440	8%	54,260	11%	399,290	81%	493,990
СМДНВ	94,250	16%	127,040	22%	357,360	62%	578,650
Waitemata	63,930	10%	45,100	7%	519,740	83%	628,770
Northland	69,160	35%	4,050	2%	119,960	62%	193,170
Grand Total	267,780	14%	230,450	12%	1,396,350	74%	1,894,580











## Maaori Clinical Governance Roopu Initial thoughts - for discussion and advice

- Service access see patients locally rather than patients having to travel
- Access to telehealth advantages/barriers to this?
- Ability to upload vascular assessment and photos onto DHB systems?
- Non-invasive testing options available in community
- Visiting services Nursing/ Podiatry/ Clinical Nurse Specialists links with **GP/Practice Nurses/District Nursing**
- Improve triaging/screening for DHB Vascular services to confirm if really necessary to be seen by the vascular service – or alternative approach to
- Access to equipment at each centre mobile vs permanently-based machines for checking blood flow (PVD)







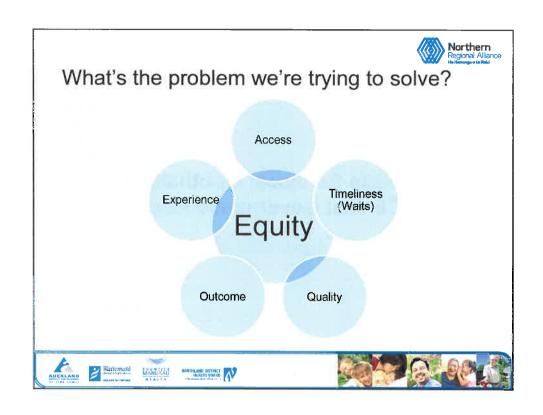




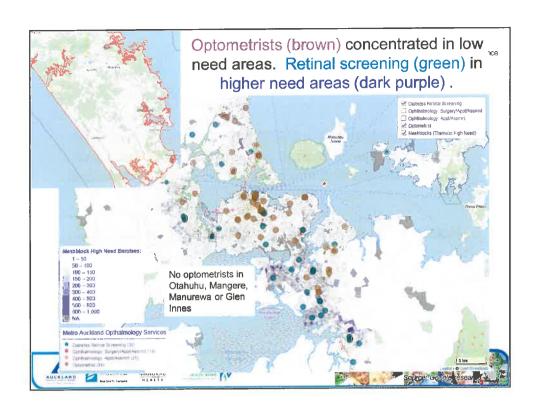


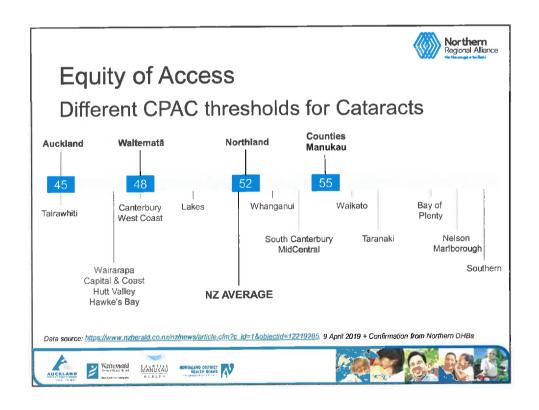














Recommendation #1 - Development of new/ expanded community eye clinics run by optometrists, nurses and technicians - starting in high need areas. Also looking at virtual clinics.

Recommendation #2 - Commitment to equalise CPAC thresholds regionally













## **Timeliness/Waits**



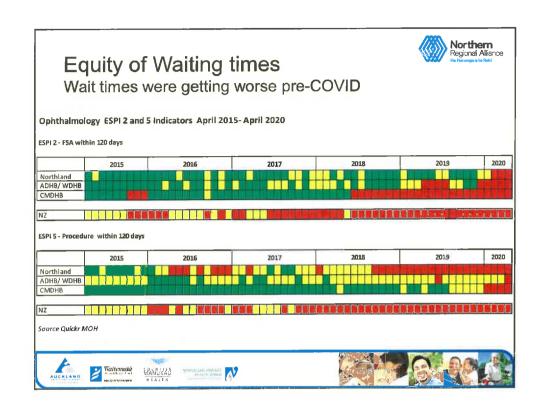


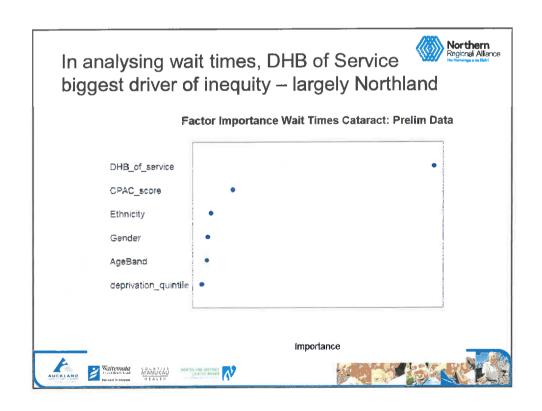


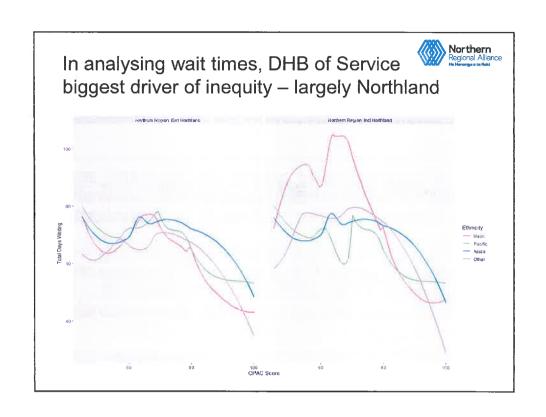














Recommendation #3 - Provide additional regional support to Northland

Recommendation #4 – Implement prioritisation adjustment model for waiting & ethnicity (ADHB led)











### Significant demand pressures - age and diabetes



Northern Region	Act	uals	2019 fron	n 2015
	2015	2019	Change	Avg Annual
FSA	19,732	20,671	4.8%	1.2%
FUP	63,236	76,977	21.7%	5.0%
Intraocular injections 1	8,455	19,600	(131.8%)	23.4%
Orthoptist	12,297	11,901	-3.2%	-0.8%
Laser	3,324	3,647	9.7%	2.3%
Eye Procedures	1,056	1,207	14.3%	3.4%
Nurse Clinics	8,364	8,693	3.9%	1.0%
Diabetes Screening	33,039	35,375	7.1%	1.7%
Cataract	5,571	8,137	46.1%	9.9%
Other Inpatient	5,596	6,186	10.5%	2.5%
All Services	160,670	192,394	19.7%	4.6%

**Population Projection Changes** 

Service growth almost 3x population growth











7.0%



Recommendation #5 - Committing to Ophthalmology as a regional priority and coordinate investment across the region











### **Quality/ Outcomes** - from ad hoc to systemic



Recommendation #6 - Quantify and systematically track quality and outcome equity gaps for ophthalmology across the region

#7 – Implement IT tools to support this e.g. CatTrax



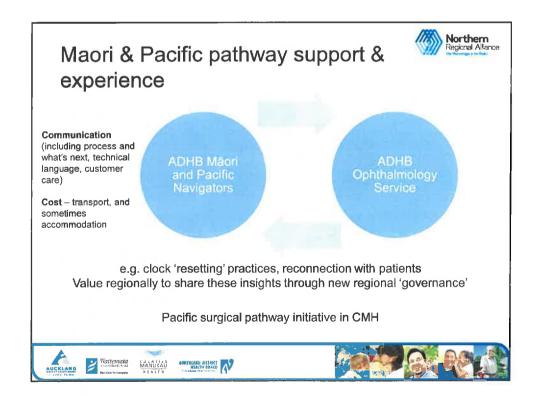


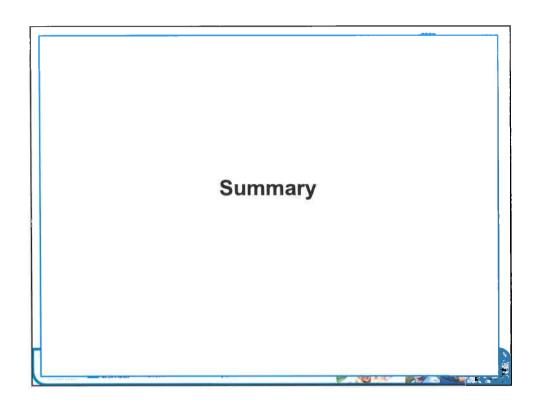


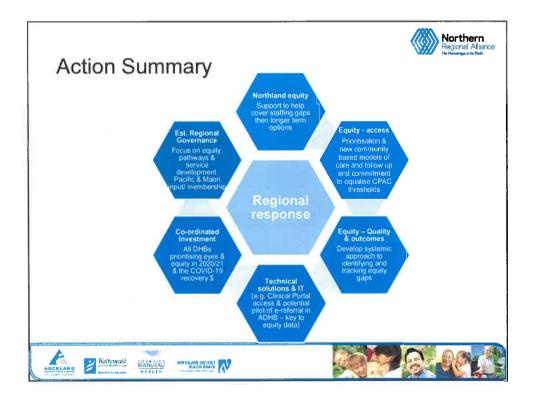














### Questions/Feedback

- Pātai?
- Principles based feedback
  - Partnership Advice on Maori involvement on the Regional Ophthalmology Governance group and design of services?
  - Equity What else?
  - Options What particular aspects should we be considering when thinking about kaupapa options, particularly in developing this community model?
  - Active Protection any particular aspects we should be taking into account?

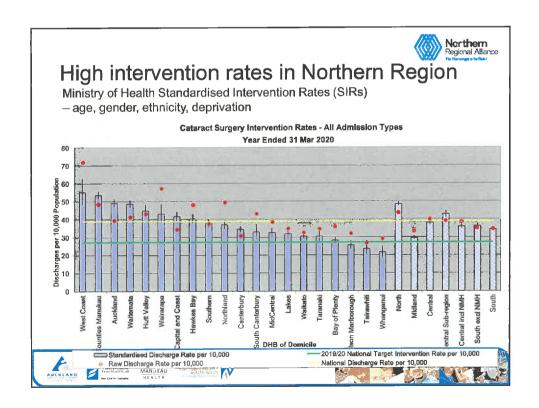


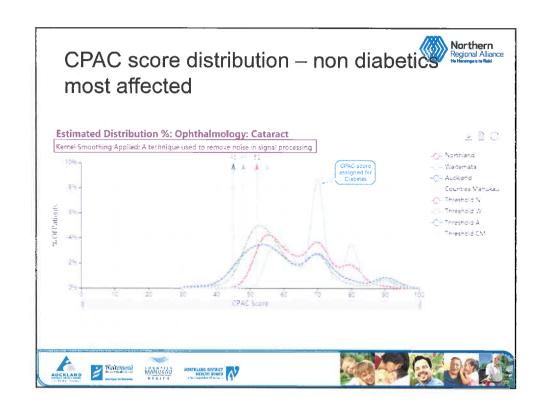


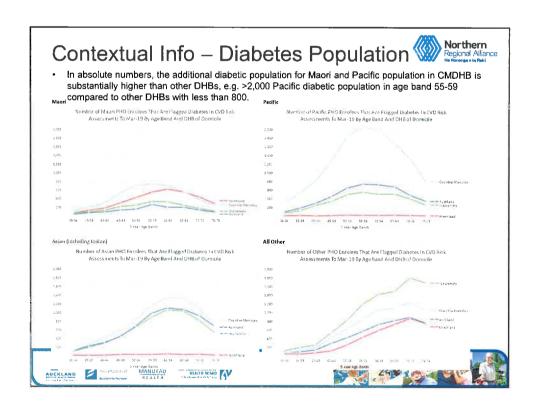


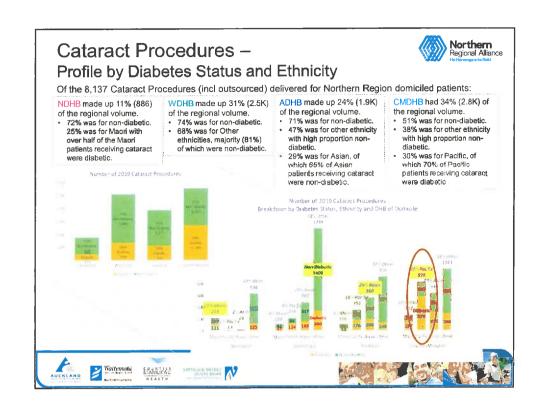


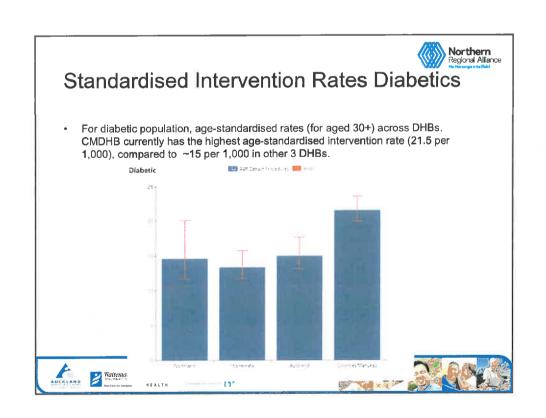
















То	Maaori Clinical Governance Group Pacific Clinical TAG			
From	Richard Sullivan			
	Exec Lead Vulnerable Services ORL			
Date	23 September 2020			
Subject	Paediatric ORL Vulnerable Services	Recommendation and Next Steps		
For	REF Decision			
Y	mendations incur financial costs ously planned /approved?	Yes		

### **Recommendations and Request:**

It is recommended that the Regional Executives Forum:

- 1. Note agreed principles in place across ORL-HNS for adults and paediatrics and this paper outlines the process, solutions and next steps for paediatrics.
- 2. **Note** from undergoing this process it has been agreed that greater co-ordination of secondary Paediatric ORL across the 3 Metro Auckland DHB would provide equitable access and sustainability
- 3. Note a regional process needs to be led in ORL to develop a strategy across the region to sustain Starship as a tertiary provider whilst ensuring secondary care services can be delivered closer to home.
- 4. Note: that there is support for a regional approach with measurable gains for paediatric ORL patients and their whanau however, we are at an early point in the regional discussion and that there will need to be a developmental approach to regional solutions.
- 5. Request funding for a Project Manager, Clinical Lead and a Pathway Project Manager to lead the development of a model of care across the region through further data analysis into pathways and further understanding on inequities which need to be addressed.

### **Background/Context:**

- Post lockdown, the Northern Region's COVID-19 response turned to recovery. A key focus on the recovery was on planned care. The NRHCC established the Hospital Capacity Service Improvement Steering group to lead an equity focused recovery program for planned care which included a particular focus on seven potentially vulnerable services to help them a) recover from the impacts of the COVID-19 lockdown and b) be more resilient with a particular focus on equity.
- Paediatric ORL was identified as a vulnerable service with no regional consistency in levels of access for children. Three of the DHBs provide a combined adult and paediatric service with challenges to provide consistency of secondary care services and adequate cover 52 weeks of the year. Infrastructure remains a challenge with children often needing to be transferred to Starship due to capacity, equipment, comorbidities and requirement for specialist workforce skills.
- This 'vulnerable services' work was initiated as a rapid process with key regional leads leveraging the
  rapid progress gained under COVID while incorporating some of the longer term goals articulated in the
  LTIP and elective deep dive.













### Paediatric ORL

It was agreed by the steering group on 6 July 2020 this was an opportunity to make a change across the system to address vulnerabilities, particularly with regard to sustainability and impact of equity and patient experience) and principles agreed (Appendix 1). The paediatric discussion has progressed to agree that success will involve:

- Equitable outcomes for all patients
- Appropriate intervention rates, delivered in a timely and sustainable way
- Regional model / approach which supports this

### Key problem

### 1. Equity of access and service provision within secondary care.

It is recognised that there are vulnerabilities within the system for Paediatric ORL in the Northern Region with inequities in access to secondary care treatment, particularly in Metro-Auckland with different thresholds in place. Within Metro-Auckland all DHBs provide FSA outpatients to secondary care patients, however there is variation in access to surgery due to long wait times within some DHBs and variable admission and patient oversight practices.

WDHB contracts ADHB to carry out tonsillectomies, whilst CMDHB is able to undertake this with an admission to Kidz First if necessary. There is recognition that tertiary services, high complexity or patients under multiple tertiary subspecialties will currently need to be carried out a Starship for Paediatrics. This is due to service requirements such as prolonged care, infrastructure such as theatre, equipment, ICU, and access to a range of subspecialties.

Delivery of tertiary care at Starship has been identified as necessary to maintain safe care for complex paediatric ORL patients. The model of secondary care by local DHBs will be considered with the full range of options worked through. Guidelines or updated Models of Care need to be put in place for secondary level care including age, BMI and co-morbidities and what would require a referral to Starship. Further work also needs to be undertaken for greater clarity as to what constitutes secondary care or tertiary referral for FSA. Where patients are referred for tertiary services, the referring DHBs are unable to have a real time view of the patients waiting for assessment or treatment.

High volumes of patients were waiting >4months for an FSA in June NDHB (n=141), WDHB (n=271) ADHB (n=183) and CMDHB (n=75). Patient waiting >4 months for treatment in June has increased in, in NDHB (n=62), WDHB (n=229) and ADHB (n=211) and reduced in CMDHB to one patient.

Currently there is a large amount of activity happening at Auckland for FUP and Inpatients in Paediatrics, which is to be expected in light of Starship being the Tertiary Provider, Waitemata patients are seen at Starship for tonsillectomies. Starship have also provided additional support to WDHB due to reduced capacity due to leave and recruitment issues. Data is reflective of patients being transferred to ACH from WDHB and CMDHB which is particularly evident for inpatient and follow ups.













Table 2 outlines that there is statistical difference in volumes of high need (Maori/Pacific or Deprivation Quintile 5) patients against non-high need for FSAs, Auckland and Counties Manukau are providing large coverage for their DHB of Domicile per 10,000 in comparison to other DHB's.

There is statistical difference in volumes of high need patients against non-high need for FUPs, Auckland is providing large coverage for their DHB of Domicile per 10,000 in comparison to other DHB's.

Table 1: Direct Aged Standardised Rates per 10,000 by High Need (Maori/Pacific or Deprivation Quintile 5) and Non High Need by DHB of Domicile<sup>1</sup>

	, in the second	SA	F	UP	ENT N	linor Ops	Inpa	atient
DHB	High need	Non High Need	High need	Non High Need	High need	Non High Need	High need	Non High Need
NDHB	98.7	84.7	189.9	138.8	6.4	7.4	90.8	62.4
WDHB	87.1	79.1	114.7	98.1	4.2	4.5	69.8	52.5
ADHB	143.1	91.2	297.3	163.7	3.9	2.9	103.8	60.7
СМДНВ	138.9	89.9	179.7	114.3	0.6	0.6	60.6	43.1
Northern Region	119.5	85.2	190.3	121.8	3.2	3.4	76.1	53.3

There is no significant difference between the volumes of patients for high need and non-high need being seen for ORL minor ops, there is high coverage in Northland compared to the Metro DHB's

There is statistical difference in volumes of high need patients against non-high need for inpatients, Auckland and Northland are providing large coverage for their DHB of Domicile, with lower volumes being seen per 10,000 for Counties and Waitemata.

### **Recommended Solutions:**

Through the vulnerable services process it has been agreed by the Metro-Auckland DHB's that a regional approach for secondary care services would provide measurable gains for paediatric ORL patients and their whānau. It is acknowledged that we are at an early point in the regional discussion and that there will need to be a developmental approach to regional solutions.

The agreed next steps are:

- 1. Explore the development of a regional waitlist for paediatric ORL patients
- 2. Explore the development of a regional paediatric ORL pathway
- 3. Consider options for improved equity of access and outcomes for paediatric ORL patients

Options that have been identified through regional discussion have been detailed in table 2, it is anticipated that some of the options such a regional waitlist could be achieved to address inequities in access to treatment. Further work needs to be carried out to explore these options to determine what a regional model

<sup>&</sup>lt;sup>1</sup> Please be aware that an age-standardised rate (ASR) has no absolute meaning; it is an artificial number based on a hypothetical population (adults and paediatrics) and is only useful for comparing with other rates calculated in the same manner. The ASR presented here is calculated by the direct method per 10,000. WHO world standard population is used as standard.













of care would look like and how it could be funded and delivered going forward. **Table 2: Options for improved equity of access and outcomes for the region population** 

	Constitution 1	Advantages	Disadvantages	For resolution
1.	Status quo - each DHB delivers to own population, complex tertiary cases to Starship	no change or implementation requirements	Inequities of thresholds, timeliness and outcomes remain. Workforce vulnerabilities remain	Data to identify inequities across the population
2.	Regional waitlist	Visibility of all patients and any inequitable waiting times	Will not result in any direct change regionally for patients or services  Management of the waitlist and the associated ESPIs within one DHB would need to be resourced. Is this a service change?	The feasibility of a regional waitlist, determining what this would include, how patients would be allocated and who would own this.
3.	Joint SMO appointment	Access to surgical expertise across DHBs Provides care closer to home for patients through the majority of services being provided within the DHB Maintains and builds on local DHB services	Less attractive to surgeons, complexities around managing leave, professional development, cover etc.	Models of joint appointments elsewhere across the region or nationally, determine full employment issues
4.	Starship delivers regional ORL with some offsite activity for local DHB populations - surgeon only, local theatre teams	Retains anaesthetic and theatre nursing competency Provides care closer to home for patients More sustainable ORL medical workforce	Costly to deliver for employing DHB Limitations around overnight stay for patients Variable inpatient ORL medical presence	Full work-up of change requirements and feasibility
5.	Starship delivers regional ORL with some offsite activity for local DHB populations - surgeon and theatre team	Provides care closer to home for patients More sustainable ORL medical workforce	Reduces anaesthesia and OR nurse competency for children in CMH, WDHB	Full work-up of change requirements and feasibility
6.	Starship delivers regional ORL at Starship and Greenlane	Full suite of ORL sub- specialty expertise, inpatient and daystay cover and nursing expertise. More sustainable ORL	Loss of anaesthesia and OR nurse competency for children in CMH, WDHB	Full work-up of change requirements and feasibility













### medical workforce

This programme of work will form a sustainable model of care for secondary care paediatric ORL services across the region. This will be monitored and overseen by Starship and with potential to scale across other specialties or population groups over time.

Measurements of success.

- Reduction in waiting times for FSA across the region
- Reduction in waiting times for treatment across the region
- Patient experience
- Patient outcomes

### Recommendation

It is recommended a Project Manager (0.25), Clinical Lead (0.1) lead the process through ADHB with an addition Pathway Project Manager for pathway development (0.5 for 6 months to lead the development of a regional Model of Care across the region through further data analysis into pathways and further understanding on inequities which need to be addressed.

### **Proposed Timeline**

A high-level timeframe for this project is as follows:

Commencement of Project Manager, Clinical Lead and pathway Project Manager	October 2020
Commencement of project team ensuring equity led leadership	October 2020
Detailed analysis of options outlined in Table 1	October – November 2020
Preferred option agreed	November 2020
Identify cost associated with agreed option	December 2020
Business case and implementation plan developed	December - January 2021
Implementation of model of care across the region to commence.	January 2021
Complete implementation plan	May 2021
Review and evaluate pathway approach and model of care	May 2021

The Project Manager and Clinical Lead will report through to ORL Clinical Director of Starship Hospital and General Manager. Reporting will be provided through to the Vulnerable Services group ORL steering group.

### Risk and issues.













If there is not project management and clinical leadership to support this programme of work the service vulnerabilities will endure. If this was not agreed this would require the on-going commitment of GM's and CD's to lead the process resulting in delays and insufficient resource to complete some of the work programme.

Unmet need if there is not robust data analysis on the pathways and projected forecasts within paediatric ORL resulting in revised model of care not being sustainable and not adequately addressing inequities across the population.

Robust leadership and management will be required to ensure the programme of work is not delayed and any future change processes are supported.

Interdependencies with other Functions:	The recommendations will need to work in tandem with the Head and Neck Cancer Accreditation recommendations for Paediatric ORL and Head and Neck.
Equity considerations of recommendations:	This process has been equity driven and informed by service data and clinical expertise with recognised gaps in capturing wider population needs such as social determinants of health.  Further engagement will be sought in the development of the recommendations from Māori and Pacific.
How recommendations align with Treaty responsibilities:	Aligns to regional service design principles including:  - Partnership where these proposals have been reviewed by the Māori Clinical Governance Group and Pacific CTAG in late September and include the recommendations in here.  - Equity as per above  Active Protection of Māori taonga, culture and knowledge as per the Regional Service Design Principles are to be factored into any work moving forward

Cost es	timate summary for recommenda	tions with financial impa	ct:
One-off costs:	Capex: -	Opex:	-\$95,615
Recurrent costs (full year effect):	Capex: -	Opex:	-
Source of funding, if appr	roved;		
Provider cost within exist	ting provider revenue allocation:		
DHB funder cost pressure	2020/21:	\$65,000	
Pre-commitment to fund	ing round 2021/22+:		
Alternate source of funds	(please specify details):	Funding applied throuse recovery bid for Projection Clinical Lead was subsequently \$30,615	ect Manager and













Basis for DHB cost split:	
Additional comments (please specify):	Additional resource is needed for a
	project manager across the region to
	support with pathways

### Appendix 1: ORL-HNS Principles Adults and Paediatrics.

- 1. COVID and our regional response to this illuminated a number of service vulnerabilities including paediatric and adult ORL
- 2. Vulnerabilities may include service, workforce and sub-speciality volumes and may vary over time
- 3. There is current variability in equity of access and outcomes regionally which there is a commitment to addressing
- 4. Regional solutions for paediatric and adult ORL-HNS will seek to improve patient safety, quality and health equity
- 5. Decisions about any future changes will be data informed and regionally agreed
- 6. Issues and solutions may be different for adult and paediatric populations and will be considered separately













### Appendix 2: ORL Paediatric snapshot.

## Current Utilisation Profile by DHB of Patient Domicile 2019

			DHB of P	DHB of Patient Domicile (Paeds)	le (Paeds)				2	DHB of Patient Domicile (Paeds) % Of Northern Region	omicile (Paed	s) % Of Norti	hern Region	
						Outside								
				Counties	Northern	Northern		_						
	Northland	Northland Waitemata Auckland	Auckland	Manukan	Region	Region	Total	Nor	lorthland	Waitemata	Auckland	Countie	Counties Manukau Total	tal
FSA	517	1445	1338	3 1969	5269	8	82 5	5351	9.8%	27.4%		75.4%	37.4%	100.0%
and the same of th	927	1724	2812	1899	7362		7 241	7511	12.6%	23.4%		38.2%	25.8%	100.0%
Other Inpatient	490	1368	1160	086	3998		185	4183	12.3%	34.2%		29.0%	24.5%	100.0%
kin Lesions	2	3				7	0	7	78.6%	42.9%		14.3%	14.3%	100.0%
NT Minor Ops	. 13	83	86	38		212	81	230	6.1%	39.2%		46.2%	8.5%	100.0%
SA Dizzy dinic	0	76	28	8 2183	3 2287	12	5 2	257	960.0	3.3%		1.2%		100.0%
Jurse Clinics FUP	955	745	30	34	1764	4	3 1	1767	54.1%	42.2%	1	7%	1.9%	100.0%
peech Therapy	0		_	4 15		22	0	77	%0.0	13.6%		18.2%	58.2%	100.0%
All Services	2904	5447	5471	1 7099	20921		442 21	21363	13.9%	76.0%		26.2%	33.9%	100.0%

ij	
Note:	

- High number of Patient referred for ORL treatment at CMDHB
  - High volumes of patients seen at CMDHB and ADHB High number of FSA in ADHB and CMDHB

    - High FUP in ADHB
- High number of inpatients at ADHB which is to be expected
  - High number of Nurse Clinics FUP at WDHB and NDHB
    - High number of FSA Dizzy Clinics in CMDHB
- The largest growth across ORL services will be in the Asian population followed by other

### Current Utilisation Profile by DHB Service 2019

		DHB of P	DHB of Patient Service (Paeds)	(Paeds)			DHB of Patient	Service (Paeds)	DHB of Patient Service (Paeds) % Of Northern Region	
				Counties						
	Northland	Waitemata Auckland	Auckland	Manukau Total	Total	Northland	Waitemata	Auckland	Counties Manukau Total	Total
FSA	495	1,073	1,930	1,853	5,351	%8 6	20.1%	6 36.1%	34.6%	100.0%
dn	706	119	4,434	1,493	7,511	12.1%	%0°6	%0.65	7% 19.9%	100.0%
Other Inpatient	440	475	2,680	588	4,183	10.5%	11.4%	6 64.1%	14.1%	100.0%
kin Lesions	2	8	1	4	7	78.6%	42.9%	6 14.3%	3% 14.3%	100.0%
NT Minor Ops	2	15	210		230	2.2%	%5'9	%ET6 9	3% 0.0%	100.0%
SA Dizzy clinic		75	,	2,217	2,292	0.0%	3.3%	%0:0	36.7%	100.0%
Jurse Clinics FUP	963	748	28	28	1,767	54.5%	42.3%	1	6% 1.6%	100.0%
peech Therapy		4	6	13	22	0.0%	%0.0	40.9%	3% 59.1%	100.0%
All Services	2812	3066	6966	6193	21363	13.2%	14.4%	43.5%	5% 29.0%	100.0%

wth			Pacific	or - Asian		
Forcasted Growth FSA per DHB and total ethnicty growth				- D2		2015 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029
	2,500	2,000	1,500	1,000	200	X





### Appendix 3: Reported Current Position 6 July 2020 for Adults and Paeds

### **WDHB**

- Equity of access to services 45% of patients are declined and referred back to the GP.
- Not seeing any P3
- Growth has caused the biggest challenge.
- Started as an elective service which outgrew resulting in SMO doing work outside of their JD's.
- Resources are limited physical and FTE, no house surgeon, limited SMO due to clinic capacity and no inpatient beds.
- Ability to see patients and operate is hard due to the above
- Support to intensive care and emergency depart
- Cover H&N, paediatrics emergency and aftercare
- Lack of Theatre capacity for ORL

### Paeds (2 September 2020)

- FSA OP secondary patients
- Minimal paediatric audiology
- Inpatient Grommets and adenoids [
   also a few more complex Daystay cases
   - ie. myringoplasty]
- No inpatient tonsils all contracted to ADHB

### **CMDHB**

- ORL-HNS based at MSC and set up as an elective day case service.
- Infrastructure makes it challenging to provide an acute service
- Service is small, with ageing workforce, limits to on call provision and recruitment issues
- Issues working across two sites, no beds at Middlemore for ORL-HNS rely on plastics and ADHB
- Intervention rates for paediatrics is not good, with increasing waiting lists and waiting a long time in comparison to Starship. Starship would not be able cope the current volumes coming through to CMDHB.

### Paeds (2 September 2020)

- FSA OP secondary patients
- 1x Paed ORL SMO shared with ADHBselected tertiary OP
- Inpatient Grommets and adenoids [At CMDHB we do quite a lot of other ORL Paeds Surgery ( in older children mainly >10 yrs or so) some nasal and limited FESS surgery, Myringoplasties, a few mastoidectomies, some limited head and neck ie. FNA or node biopsy, skin tags or lesions, pre-auricular sinuses etc.]
- Inpatient tonsillectomies admission
   Kidz First if required(under Paeds Med)
- Longer waiting times than ADHB (& by default WDHB)
- Regular outsourcing to private

### **ADHB**

- Issues with patient care with different intervention rates between DHB's, aftercare and inpatient care
- Metro Auckland access to emergency theatre is restricted resulting in elective patients being cancelled or acute presentation waiting until the end of

### NDHB (12 June 2020)

- Functioning differently in NDHB
- Vulnerable with staffing but in a better position following service plan including peripheral hospital in place and to outsource for recent issues in Private
- Working well in resources but could do better.













the list.

- On call roster is problematic across the region due to clinicians opting out. This is made up of clinicians from each DHB.
- ADHB does not have any SLA's in place with the other DHB's confirming what ADHB should deliver.
- Support required for clinicians across the region
- Two theatres which ORL-HNS do not have access to all of the time. Would be hard to find theatre space if anymore SMO were recruited. Potentially space in CTU but would result in split service.

### Paeds (2 September 2020)

- FSA all ADHB patients and tertiary WDHB/CMDHB
- Inpatient care all ADHB, WDHB tonsils and tertiary WDHB/CMDHB
- Shorter waiting times than CMDHB but
- Regular intra DHB additional lists to manage volumes

- Regional networks for complex and tertiary care and paediatrics are important and could be strengthened
- On-call is different to Metro Auckland
- Intervention rates provide a broad service from paediatrics to extensive H&N and in line with national intervention rates; however, some cases are turned away
- More work could be done on quality of life cases.
- Theatre provision is good with two new theatres being built.













То	Maaori Clinical Governance Group Pacific Clinical TAG
From	Richard Sullivan
	Exec Lead Vulnerable Services ORL and Head and Neck Surgery (HNS).
Date	23 September 2020
Subject	ORL-HNS Adult and Paediatrics Vulnerable Services Recommendation and Next Steps
For	Decision

### **Recommendations and Request:**

### It is recommended that:

- 1. Note agreed principles (detailed in appendix 3) in place across ORL-HNS for adults and paediatrics but the process and solutions have been separated and this paper outlines the next steps for Adults only and Paediatrics will be presented separately.
- 2. Note from undergoing this process, which has included two workshops and further clinical lead discussion the Adult ORL-HNS group at this stage is unable to draw to a conclusion what a regional solution would be. There is recognition from the Clinical Leads that four DHB services in their present state will continue to be vulnerable.
- 3. Note there is agreement that the following vulnerabilities in Adult ORL-HNS can be addressed in Phase 1 to include:
  - The acute on-call roster through an HR review of contractual requirements and the establishment of robust processes attached to the recruitment process going forward.
  - SLA's to be established between ADHB as the Regional/Tertiary Provider and the DHB's defining expected service delivery in the Northern Region.
  - Streamlining processes, protocols and models of care where there is regionalisation currently in place for free flap reconstruction.
  - o Paediatrics
- 4. Note it is recommended a regional process needs to be led on ORL-HNS to develop a strategy across the region and the required investment using assessment against a Role Delineation Model (RDM) for the non-cancer components.
- 5. Request that option 4 is agreed and a Project Manager and Clinical Lead to lead the RDM assessment and recommended model of care for the region through the development of a 5-year strategy. Resource to be allocated from existing ADHB service management to work across the region to develop the 5 year strategy. This work will be overseen by the steering group.

### Background/Context:

Post lockdown, the Northern Region's COVID-19 response turned to recovery. A key part of that recovery was on planned care. The NRHCC established the Hospital Capacity Service Improvement Steering group to lead an equity focused recovery program for Planned Care. The ORL- HNS Services a (Adults and Paediatrics) was













identified as one of the seven vulnerable services who would benefit from a structured recovery programme. The programme is to assist with the recovery from the impacts of the COVID-19 lockdown and the delays to be seen and treated which was an issue pre COVID-19 and to establish a more resilient service within the region with a particular focus on equity.

ORL- HNS is a vulnerable service due to common themes of subspecialisation with little integration across the regions DHBs, inequity of provision of service with different levels of access and prioritisation across the Northern Region. This is resulted in patient delays to FSA and treatment which leads to poor patient experience. Leadership across the region and maintaining a sustainable workforce to meet population need has resulted in capacity constraints which is resulted in patients been transferred to other DHB for treatment. This has resulted in an unsustainable service unable to provide adequate cover 52 weeks of the year.

This 'vulnerable services' work was initiated as a rapid process with a small regional group established including key regional leads so to develop an approach to build a more equitable and resilient service across the region. This includes incorporating some of the longer term goals articulated in the LTIP and elective deep dive. In addition to this there is the acknowledgement of the work has been undertaken through the HNCOG for Head and Neck Cancer a subspecialty of ORL-HNS where an RDM accreditation has been completed identifying gaps in workforce across the pathway and infrastructure in meeting the service level proposed.

### Issues and Implications

### ORL and Head and Neck Surgery (HNS)

It was agreed by the Hospital Capacity Service Improvement/Planned Care Steering group on 6 July 2020 this was an opportunity to make a change across the system to address vulnerabilities particularly with regard to sustainability and impact of equity and patient experience (documented in Appendix 1 and 2). ORL-HNS Adults and Paediatrics agreed principles (Appendix 3) and areas to be addressed in 2 stages:

### Phase 1

- 1. Acute on call roster
- 2. Secondary and tertiary service delivery and streamlining regional processed
- 3. Establishment of SLA's between ADHB and the Regional DHB's
- 4. Paediatrics (submitted separately)

### Phase 2

- 5. ORL-HNS 5 year strategy local and regional delivery including thresholds.
- 6. Recruitment and workforce planning.

### Key problems agreed to addressed.

### 1. Sustainability of the on-call roster for acute care in and after hours

The on call roster for acute care is regionally staffed by SMOs from all 3 Auckland Metro DHBs. There are two rosters to cover Adult ORL-HNS issues: one for General ORL and one for H&N. The on-call roster has been identified as vulnerable and not sustainable due to the number of clinicians exempt (11 out of 29) and no cover for maternity or long term SMO absences. The Table below outlines the FTE and population supported by the General ORL and H&N on call rosters.













Table 1: FTE and population supported by the General ORL and H&N on call rosters per DHB

		SMO's On Roste	er	SMO:100:000	Population	- 1, 0-1-1	
DHB	H&N	General ORL	Total	Adults (15> years	Total Pop	Exempt from Roster*	Total including exempt
WDHB	2	3	5	1.0	0.8	4	9
ADHB	4	3	7	1.7	1.4	3	10
СМДНВ	3	2	5	1.1	0.7	4	9
Vacancy		1	1				1
Total	9	10	18			11	29

<sup>\*</sup>reasons for exemption vary

The rosters are currently 1 in 9 frequency of call. This is despite one WDHB SMO coming off the General ORL roster in the past year which has been covered by various SMOs as additional duties, with no replacement even though recruitment processes were undertaken.

Several issues have been raised by SMOs regarding the roster, including:

- Non-participation in the roster by a significant proportion of SMOs.
- Older SMOs wish to leave roster at age of 60 years (as has been the tradition), but this is no longer
  possible owing to an ageing workforce, with limited succession planning.
- Increasing SMO workload owing to reduced RMO experience.
- ADHB SMOs take on the majority of care of acutely admitted patients as all patients admitted by a non ADHB SMO are transferred to the care of an ADHB SMO the next day.
- No cover provided for SMO maternity leave or long term SMO absences for various reasons including the lack of ability to recruit to fixed term contracts
- Leave granted to SMOs by WDHB and CMDHB without due consideration to regional roster
- Consultation on changes in the frequency of on call requirements need to be better communicated with SMO's by CD and Service Manager.

It has been identified that there is no consistency with regard to a process on recruitment of SMO's, the requirement to be on the regional on-call roster varies in detail in position description and contract of the SMO's. There is no regionally agreed process for an SMO becoming exempt from participating on the acute on call roster, this is currently carried out at a DHB level between the SMO and CD.

There is no agreed documentation defining which conditions warrant attendance of an ORL SMO for either the Head and Neck or General On Call Roster across Metro Auckland. The only documentation that has been sighted is the *Conditions Warranting On-Call Head and Neck Surgeon Attendance at Peripheral Hospital (WDHB & CMDHB)* 2010 which SMO's /General Managers were unaware of and needs to be reviewed and agreed regionally.

### 2. Equity of access and service provision within secondary care.

It is recognised that due to vulnerabilities within the Northern Region for ORL-HNS this has resulted in inequities in access to treatment, particularly in Metro-Auckland with different thresholds in place (Appendix 1













provides an ORL snapshot and Appendix 2 perceived current position). High volumes of patients waiting >4months for an FSA in June NDHB (n=141), WDHB (n=271) and ADHB (n=183). Patient waiting >4 months for treatment in June has increased in NDHB (n=62), WDHB (n=229) and ADHB (n=211). Note improvement plans should be reflecting improved positions against the numbers of patients waiting.

Data is reflective of patients being transferred to ADHB from WDHB and CMDHB which is particularly evident for inpatient and follow ups where patients would have been treated.

Twenty eight per cent of patients are aged 0 -14 years across all DHB's for FSA's (NR=5,144 / 18,353 2) and 41% over the age 50 (50+ NR =7,605/18,353).

Table 2 outlines that there is statistical difference in volumes of high need (Maori/Pacific or Deprivation Quintile 5) patients against non-high need for FSAs. Auckland and Counties Manukau are providing large coverage for their DHB of Domicile patients per 10,000 in comparison to other DHB's.

There is statistical difference in volumes of high need patients against non-high need for FUPs, Auckland is providing large coverage for their DHB of Domicile per 10,000 in comparison to other WDHB and NDHB.

There is no significant difference between the volumes of patients for high need and non-high need being seen for ENT minor ops, there is high coverage in Northland compared to the Metro DHB's.

There is statistical difference in volumes of high need patients against non-high need for inpatients, Auckland and Northland are providing large coverage for their DHB of Domicile patients, with lower volumes being seen per 10,000 for Counties and Waitemata.

Table 2: Direct Aged Standardised Rates per 10,000 by High Need (Maori/Pacific or Deprivation Quintile 5) and Non High Need by DHB of Domicile<sup>1</sup>

	F	SA	i i i i i i i i i i i i i i i i i i i	UP	ENT	linor Ops	Inpa	atient
DHB	High need	Non High Need	High need	Non High Need	High need	Non High Need	High need	Non High Need
NDHB	98.7	84.7	189.9	138.8	6.4	7.4	90.8	62.4
WDHB	87.1	79.1	114.7	98.1	4.2	4.5	69.8	52.5
ADHB	143.1	91.2	297.3	163.7	3.9	2.9	103.8	60.7
СМДНВ	138.9	89.9	179.7	114.3	0.6	0.6	60.6	43.1
Northern Region	119.5	85.2	190.3	121.8	3.2	3.4	76.1	53.3

Table 3 highlights the total volumes per 10,000 by ethnicity, this highlights high numbers of activity in Pacific, followed by Asian, Maori and Other-

<sup>&</sup>lt;sup>1</sup> Please be aware that an age-standardised rate (ASR) has no absolute meaning; it is an artificial number based on a hypothetical population (adults and paediatrics) and is only useful for comparing with other rates calculated in the same manner. The ASR presented here is calculated by the direct method per 10,000. WHO world standard population is used as standard.













Table 3: Total volumes by ethnicity per 10,000 population by DHB of Service.

	Nu	mber per 10,	000 populat	ion
	Maori	Pacific	Asian	Other
FSA	33.2	74.8	51.3	31.2
FUP	55.2	120.2	68.5	49.4
ENT Minor Ops	0.9	1.3	1.2	1.4
Other Inpatient	25.4	48.9	22.3	18.5
Total	115	245	143	101

Across the northern region growth is anticipated to be 15.1% over 10 years from 2019 - 2029 or 1.4% per annum in FSA's. Follow ups are anticipated to grow by 14.3% and inpatients by 8.7% in this period. This predicated growth is highlighting the need for sustainable services across the region with the vulnerabilities addressed.

The largest growth across ORL services will be in the Asian population (41.2%) followed by Māori (16.3%), Pacific (14.5%) and then other (4%).

There is recognition that tertiary services, high complexity or high co-morbidly<sup>2</sup> will currently need to be carried out at ADHB for Adults and Paediatrics. This is due service requirements such as prolonged care, infrastructure such as theatre, equipment, ICU, staffing as subspecialties within the tertiary provider. Delivery of tertiary care is clearly defined as well as secondary care procedures that could be delivered by local DHB's, however, the issue that has become evident is that services are currently defined by SMO skill set rather than the requirement of equity of access for the Northern population. This has resulted in thresholds varying across the region with patients referred to where the infrastructure is and skill set to support the clinical need of the patient. More complex cases could be completed in other DHB's where the surgical skill mix is available however due to the size of departments and lack of infrastructure this is not able to occur. There is also risk where there is low volume / high complexity on patient outcomes if SMO's do not get enough practical opportunities to maintain skills and experience which could provide poor patient outcomes.

### Recommendations

- From undergoing this process, the regional working group at this stage is unable to draw to a
  conclusion what a regional solution would look like despite recognition that the system in its present
  state will continue to be vulnerable.
- However, it has been acknowledged that there remains a requirement for 4 centres delivering
  accessible and timely secondary care which is consistent across the region.
- There is further agreement that work needed to be undertaken to develop what a regional solution or model of care would look like.

### Phase 1

### 1. Acute On-Call Roster Metro-Auckland

The acute on call roster can be addressed in phase 1 through a review of contracted requirements through a robust HR process. There needs to be an agreement to ensure the recruitment processes include an

<sup>&</sup>lt;sup>2</sup> This includes complex head and neck cancers and their surgery, neuroOtolgic problems (vestbular schwannomas, CSF leaks), non-cancer upper airway and neck surgery (orbital, inacranial, recurrent), complex endoscopic sinus surgery for complex disease as well as patients requiring prolonged admission for complexity co-mobility where there is not the right infrastructure in the domicile DHB













expectation of participation on the on call roster. Due to a third of the eligible SMO's being exempt from the acute on-call roster has highlighted the vulnerability of having an aging workforce. This will require careful succession planning particularly at CMDHB where a high number of SMO are aged 60+ within OR-HNS department<sup>3</sup>.

### Recommendations

- 1. For all services, applicable wording in PD's and contracts need to align across Metro Auckland by the GM's with HR.
- 2. GM's need to agree with the CD's the documented requirements of the on-call roster across Metro-Auckland.
- 3. A clearly defined process in recruitment to ensure the on call roster is part of the discussion and employment contract across Metro-Auckland.
- 4. The development of a Metro-Auckland process for SMO's coming off the roster and what defines an exemption for participation.
- 5. An SLA needs to be established between ADHB and WDHB and CMDHB detailing the acute on call roster requirements.

### 2. Secondary and tertiary service delivery and streamlining regional processes

Secondary and Tertiary care needs to clearly defined across the region and formally documented in the form of an SLA between DHB's. This results in variation of service delivery.

### Streamlining of processes and protocols regionally

The streamlined treatment of complex head and neck cancer patients that need free flap reconstruction needs to be formalised as a regional process.

This is currently in place for HNC patients discussed at the regional MDM at ADHB where patients are allocated to the appropriate DHB where they can receive their resection/reconstruction. There is a system in place at ADHB for HNC where patients are processed and booked for surgery following the MDM.

The process for co-ordinating complex metastatic skin cancer patients that need free flap reconstruction at CMDHB plastic surgical and ORL department is less defined. NDHB have experience delays with securing a theatre date in CMDHB, pre-assessing patients and providing a smooth patient journey.

### Recommendations

- 1. SLA's to be established between ADHB as the Regional/Tertiary Provider and the DHB's defining expected service delivery in the Northern Region.
- 2. Streamlining processes, protocols and models of care where there is regionalisation currently in place for free flap reconstruction.

### Phase 2

1.Providing equity of access within ORL-HNS secondary care across the Northern Region; particularly Metro-Auckland.

It has been recognised across the working group that a process needs to be undertaken to define what level of service should be provided to enable maturity of services including workforce and infrastructure. Using the Role Delineation Model would create an intention of how services are delivered. This would be for non-cancer

<sup>&</sup>lt;sup>3</sup> Over 7 of the SMO at CMDHB are over 60.













components of the service<sup>4</sup>. A 5-year strategy using LTRIP forecasting detailing expected demand, current capacity and individual service plans. This would include further in-depth analysis into procedures, day cases, inpatient activity elective and non-elective, LOS and associated support services, to enable an informed decision to be made on addressing long term vulnerabilities and a model of care.

Work would need to be undertaken to review waitlist times for treatment.

### Recommendation

A regional programme of work needs to be led on ORL-HNS to using RDM across the region to be led by the ADHB NHC Service with a Project Manager and Clinical Lead to provide a stocktake on current provision and service plans and models of care to ensure a sustainable service across the region. This is so to ensure consistent regional triaging, access and waitlists to provide the same level and access to care across the Northern Region It is recommended that a 5-year strategy across the region taking into account the HNC RDM and recommendations to determine the model of care and investment required across the health system.

### **Recommended Options**

Options going forward to ensure a sustainable and equitable service across the region.

- Option one: status quo which would result in continued risk of vulnerability in the system.
- Option two: address issues that can be achieved in phase 1 to improve sustainability e.g. acute on call
  roster, streamlining regional process, agreeing secondary care thresholds. This is likely to have cost
  implication to DHB's
- Option three: revised model of care across the region for adults to be delivered in phase 2 using the RDM and 5-year strategy to inform. This will determine gaps in the systems which will identify immediate or long term gaps and risks which will need to be addressed.
- Option four: option two and three combined are taken forward to ensure phase 1 issues are mitigated and to develop a model of care to ensure equity of access and sustainability of provision.

It is recommended that option four is taken forward and led by the ADHB Service with a Project Manager (0.25FTE) and Clinical (0.1)FTE lead to take this forward.

### **Actions and Progress**

Action	Progress	Next steps
Metro Auckland Acute On Call Roster -	<ul> <li>PD and contracts across         DHBs demonstrates         variation     </li> <li>SLA being developed by         ADHB to be put in place         with WDHB and CMDHB     </li> <li>Conditions warranting on call requirements is to be reviewed and included as</li> </ul>	<ul> <li>Protocol for exemptions to come off the on-call roaster to be developed and agreed across Metro-Auckland.</li> <li>Agreement to align PD on call roster requirements</li> <li>Agreement to provide cover of long term absences</li> </ul>

<sup>&</sup>lt;sup>4</sup> A RDM has been undertaken for Head and Neck Cancer with recommendations submitted to REF.













	part of SLA.	- Engagement with SCD, GM and HR.
Strengthening Regional Pathways  - Free Flap reconstruction - Paeds	- Process at ADHB documented -	- JK to work on CMDHB Plastic surgery and ORL pathway for free flap reconstruction
Secondary Care Thresholds	<ul> <li>Agreed what procedures happen and secondary care.</li> </ul>	<ul> <li>Agree referral thresholds across secondary care.</li> </ul>
RDM Appraisal  RDM Framework agreed RDM DHB Assessment RDM ambition		Project Manager and Clinical Lead to be assigned to lead RDM process
- Capacity and demand projections across the region - RDM assessment - Secondary care thresholds - Recommended model of care across the region taking into account primary and community care		Project Manager and Clinical Lead to be assigned to lead RDM process.

Interdependencies with other Functions:	The recommendations will need to acknowledge the Head and Neck Cancer Accreditation recommendations and investment.
Equity considerations of recommendations:	This process has been equity driven and informed by service data and clinical experience with recognised gaps in capturing wider population needs such as social determinants of health.
	Further advice and collaboration will be sought in the development of the recommendations.
How recommendations align	Aligns to regional service design principles including:
with Treaty responsibilities:	<ul> <li>Partnership where these proposals have been reviewed by the Māori Clinical Governance Group and Pacific CTAG in late September and include the recommendations in here.</li> </ul>
	- Equity as per above
	Active Protection of Māori taonga, culture and knowledge as per the Regional Service Design Principles are to be factored into any work moving forward













Cost e	stimate summary	for recommendat	ions with financial impact:	
One-off costs:	Capex:	-	Opex: -	
Recurrent costs (full year effect):	Capex:	-	Opex:	
Source of funding, if app	roved:			
Provider cost within exist	ting prov <del>ider rev</del> e	enue allocation:		
DHB funder cost pressure 2020/21:				
Pre-commitment to fund	Pre-commitment to funding round 2021/22+:			
Alternate source of funds	s (please specify o	letails):		
Basis for DHB cost split:				
Additional comments (pl	ease specify):		0.25 Project Manager and 0.1 Cl Lead. Resource has not been allo and should be considered within services across the region, overs the steering group.	ocated n existing













Forecasted Growth of ORL FSA per DHB and total ethnicity growth

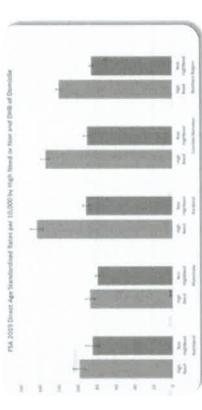
### Appendix 1: ORL snapshot.

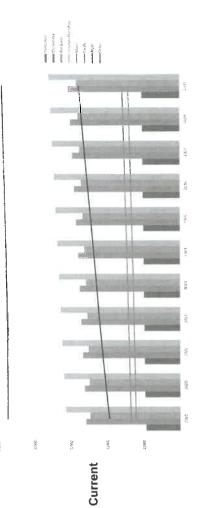
### Current Utilisation Profile by DHB of Patient Domicile 2019

	_			DHB of Patient Domitile	t Domicile			-	DHBo	DHB of Patient Domicile % Of Northern Region	micile 25 CTA	orthern Reg	lon
				Counties	Metro	Northern	Outside					Countles	Northern
	Northland	Northland Waitemata	Auckland	Manukan	Auckland	Region	Region	Total	Northland Waitemata	Waitemata	Auckland	Manukau	Region
FS#	1,892	5,294	1,962	6,34%	36,360	18,353	220	18,573	10.25	28.3%	27.15	E 34.3%	100%
SA Dizzy clinic	н	1,135	138	3,332	4,605	3,606	14	4,620	9:00'5	34.6%	9:03%	3.0%	1005
Jurse Clinics FUP	3,493	1,277	1,130	376	2,783	6,276	67	6,295	55.7%	20.3%	13.0%	6.0%	100%
FUP	3,616	6,725	9,334	8,485	74,548	28,164	5:7	28,711	12.8%	23.9%	33.155	30.1%	100%
beech Therson	97	652	1,252	意	3,745	2,842	23	7167	3.4%	22.9%	A. 15	29.6%	100%
ENT Minor Ops	215	25ë	8.	N	414	629	20	646	24.2%	15.5%	15.7%	4.6%	100%
kin Lesions	145	133	63	30	216	361	**	362	202 s	56.8%	17.5%	5.5%	100%
Bronchoscopies	6	22	10	티	23	62		62	14.5%	35.5%	16.2%	33.9%	100%
Boriox	*	13	W)	ar.	7	35	4	39	2.9%	27.1%	14.3%	245.7%	100%
ther inpatient	1,500	3,250	3,142	2,780	9,172	10,672	342	11,014	14.1%	30.5%	29.4%	26.0%	100%
di Services	10,970	JE,038	70,341	22,20%	02,030	72,000	1,242	73.242	15.2%	26.0.	18.0%	30.8%	100%

### Utilisation Profile by DHB Service 2019

			DHB of Service	ervice			_	DHB of Service % Of Morthern Region	e % Of North	iern Region	
				Counties	Metro	Northern				Counties	Northern
	Northland	Vorthland Waitemata	Auckland	Manukani	Auckland	Region	Northland \	Waitemata	Auckland	Manukan	Region
FSA	£7793	4,362	6,393	6,025	16,780	18,573	8.7%	23.5%	34.4%	32,456	100%
SA Dizzy clinic		1,134	103	3,378	4.620	4,620	980.0	24.5%	2.3%	23.175	100%
Jurse Clinics Fup	3,521	1,258	1,155	361	2,774	6,295	35.9%		18.3%		100%
FUP	3,368	4,302	13,655	7,436	25,343	28,711	11.7%	15.0%	47.4%	73	100%
Speech Therapy	59		2,315	602	2,917	2,917	0.05%	950.0	79.4%		100%
ENT Minor Ops	207	727	211	g)	442	646	31.9%		32.5%	1.4%	100%
Skin tesions	145	133	65	23	217	362	40.152	36.7%	18.0%	5.2%	100%
Branchescopies	ō	27	77	20	23	62	14.5%	33.9%	19.4%	32.3%	100%
Botox		,	39		39	35	0.65		100,00	0.055	100%
Other Inpatient	1,409	1,378	6,348	1,879	9,605	11,014	12.8%	12.5%	E 7.6%		100%
All Services	10.452	12.810	30.251	19.729	62,790	73.242			A20.3%		100%





### Note:

- Only FSA, FUP and Other Inpatient ORL activities are close to the expected % of Patients by DHB of Domicile
  - High numbers of FUP in ADHB and CMDHB
- Low number of Nurse Clinics FUP at CMDHB
  - Low number of Dizzy Clinics in Northland
- Low numbers of ENT minor Ops in CMDHB
- ADHB provides SLT provision for WDHB patients
- Significant difference in FSA activity between high need and non-high need in Auckland and Counties Manukau DHB and as a Northern Region.
  - Significant difference in FUP activity between high need and non-high need in all DHB of domicile other than WDHB.
- Across the northern region growth is anticipated to be 15.1% from  $2019-29\,1.4\%$  per annum in FSA's, FUP is anticipated to grow by 14.3% and inpatients by 8.7% in this period.
  - The largest growth is seen in Bronhoscopies over this period of 19.9% (63 in 2020 74 in 2029
- The largest growth across ORL services will be in the Asian population (41.2%) followed by Māori (16.3%), Pacific (14.5%) and then other (4%)







### Appendix 2: Reported Current Position 6 July 2020 for Adults and Paeds

### **WDHB**

- Equity of access to services 45% of patients are declined and referred back to the GP.
- Not seeing any P3
- Growth has caused the biggest challenge.
- Started as an elective service which outgrew resulting in SMO doing work outside of their JD's.
- Resources are limited physical and FTE, no house surgeon, limited SMO due to clinic capacity and no inpatient beds.
- Ability to see patients and operate is hard due to the above
- Support to intensive care and emergency depart
- Cover H&N, paediatrics emergency and aftercare
- Lack of Theatre capacity for ORL

### **CMDHB**

- ORL-HNS based at MSC and set up as an elective day case service.
- Infrastructure makes it challenging to provide an acute service
- Service is small, with ageing workforce, limits to on call provision and recruitment issues
- Issues working across two sites, no beds at Middlemore for ORL-HNS rely on plastics and ADHB
- Intervention rates for paediatrics is not good, with increasing waiting lists and waiting a long time in comparison to Starship. Starship would not be able cope the current volumes coming through to CMDHB.

### **ADHB**

- Issues with patient care with different intervention rates between DHB's, aftercare and inpatient care
- Metro Auckland access to emergency theatre is restricted resulting in elective patients being cancelled or acute presentation waiting until the end of the list.
- On call roster is problematic across the region due to clinicians opting out. This is made up of clinicians from each DHB.
- ADHB does not have any SLA's in place with the other DHB's confirming what ADHB should deliver.
- Support required for clinicians across the region
- Two theatres which ORL-HNS do not have access to all of the time. Would be hard to find theatre space if anymore SMO were recruited. Potentially space in CTU but would result in split service.

### NDHB (12 June 2020)

- Functioning differently in NDHB
- Vulnerable with staffing but in a better position following service plan including peripheral hospital in place and to outsource for recent issues in Private
- Working well in resources but could do better.
- Regional networks for complex and tertiary care and paediatrics are important and could be strengthened
- On-call is different to Metro Auckland
- Intervention rates provide a broad service from paediatrics to extensive H&N and in line with national intervention rates; however, some cases are turned away
- More work could be done on quality of life cases.
- Theatre provision is good with two new theatres being built.













### Appendix 3: ORL-HNS Principles Adults and Paediatrics.

- 1. COVID and our regional response to this illuminated a number of service vulnerabilities including paediatric and adult ORL
- 2. Vulnerabilities may include service, workforce and sub-speciality volumes and may vary over time
- 3. There is current variability in equity of access and outcomes regionally which there is a commitment to addressing
- 4. Regional solutions for paediatric and adult ORL-HNS will seek to improve patient safety, quality and health equity
- 5. Decisions about any future changes will be data informed and regionally agreed
- 6. Issues and solutions may be different for adult and paediatric populations and will be considered separately













## **Auckland Regional Hospital Specialist Dentistry** Paediatric Secondary Service

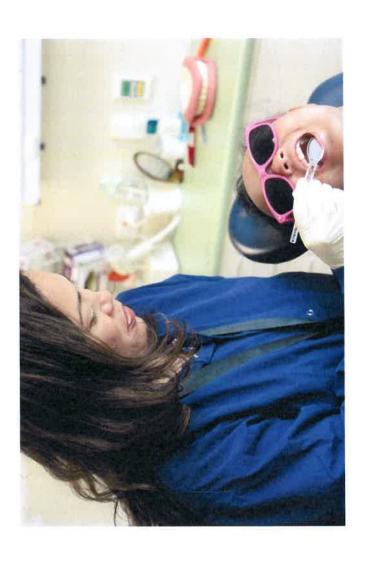


Welcome Haere Mai | Respect Manaaki | Together Tühono | Aim High Angamua



# Hospital Specialist Dentistry - Paediatric

- Regional dental service
- Provides secondary oral health care services to tamariki/rangatahi living in:
- Auckland DHB
- Waitemata DHB
- Counties Manukau DHB
- Funded by the three metro Auckland DHBs, managed by Auckland DHB
- Accounts for approx. 70% of HSD service



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### Issue Overview\*

clinic facilities.
OR,
capacity
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Demand
•

- Insufficient staffing to support service delivery requirements
- The location where services are delivered does not match the areas with the most demand (e.g. high demand from children in CMDHB, but services are mainly delivered in ADHB)

What is the issue

 The pathway to treatment for children involves multiple steps and duplication, with long waiting times at each step of the pathway.

Tamariki/rangatahi are living with pain, impacting their lives (eating, socialising, schooling, etc.)

Where is the issue occurring

Why is it an issue

A high proportion of demand comes from townsile / second to 1000.

Across the entire pathway: between and within primary, secondary and tertiary

Who is impacted

A high proportion of demand comes from tamariki/rangatahi residing within the CMDHB district (approx. 52%), a large number are Māori and Pacific

\* Vulnerable Service: Oral health presentation



# Demand vs. Capacity 2019/20

### Per 4 weeks

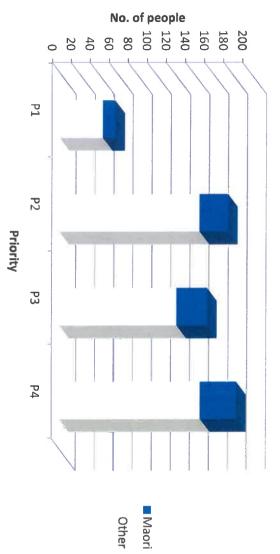
	Total required sessions	88
hortfall		
OR Capacity Shortfall	Additional sessions required every 4 weeks	EE.
OR	Current	55 Average
pur	Case delivery per session	2.4
Current OR Demand	'Actual' OR Case Case delivery Capacity per session	130
Curr	OR Case Demand	211
S.	Total clinics delivered	44 Calculated at attendance of 6 per clinic
patient Clini	No. tamariki/ rangatahi per clinic	6 per clinic
Current Outpatient Clinics	Referrals (case)	264 20% referrals not progressing due to declines, already under care, no longer wanting care, unable to contact etc
	Referrals	330

- With no change this results in 79 patients being added to the surgical backlog every 4 weeks.
  - This doesn't address the existing Outpatients Waiting List of 1626 patients (October 2020)
    - This has been decreasing incrementally from 2232 patients (September 2019)

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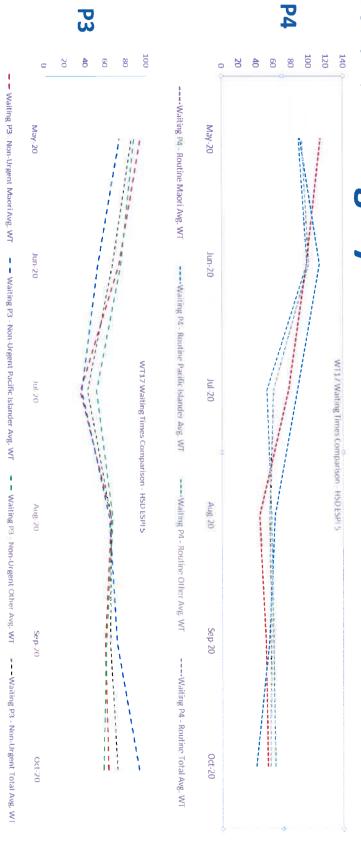








### Waitlist: Surgery



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# Initiatives

	Patient I Booking	Pre-Ad	Pathway and Referral systems		Staffing to Personnel support service delivery requirements	Issue
	Patient Focused Booking	Pre-Admit Clinic	al		inel	
<ul> <li>Project Manager employed 0.7FTE to develop workplan and commence initiatives to decrease waitlist, improve service delivery, address equity, define a model of care and develop associated pathways including access to Child Hoolth programmes of workplan and Chocke Washington</li> </ul>	Secured funds to initiate PFB in HSD service	<ul> <li>Revised anaesthetic form to triage requirement for pre-admit clinic - March 2020. 80% cases fast- tracked (not requiring pre-admit clinic)</li> </ul>	<ul> <li>ARDS trained to utilise DEeR and Regional Clinical Portal to refer to HSD. Improved standard of referral and provision of information to appropriately triage</li> </ul>	<ul> <li>Kaiārahi Nāhi (Equity Focused Planned Care response) focusing on supporting tamariki/rangatahi and whānau journey for longest waiters.</li> </ul>	<ul> <li>Employed 3.0FTE HDO's. Commence Jan 2021. Effective April 2021.</li> <li>Currently recruiting 2.2FTE SDO's. Shortlisted x4. Interviewing this week. Intended commencement Jan/Feb 2021</li> <li>Currently recruiting FTE SDO's on fixed term/locum contracts to manage upcoming vacant FTE (reduction in current SDO hours)</li> </ul>	Action (to date)



# nitiatives

		SARABATA SARA		Capacity to deliver service	Issue
FSA Overdue	Facilities	Equipment	Clinics	OR	
<ul> <li>Identifying opportunities to contract private providers for short term provision of service to attend to OR waitlist resulting from overdue FSA</li> </ul>	<ul> <li>Identification of upgrade required to SSH dental outpatient facility</li> </ul>	<ul> <li>Identified requirement to purchase additional OR dental kits. Business case nearly finalised</li> </ul>	<ul> <li>Developing a workforce plan/rosters to deliver additional FSA with recruitment of additional FTE</li> </ul>	<ul> <li>Time in motion study at GSU – theatre utilisation. How many more procedures can be accommodated full day vs. half day?</li> <li>Using existing theatre space more effectively maximising utilisation.</li> <li>Reduced the number of 'extraction-only' lists and include case of extractions-only with OCT theatres facilitating better use of theatre time.</li> <li>Where possible scheduling 'all day lists'</li> <li>Utilising released OR where possible</li> <li>Mobile Surgical Bus – short term contract (10 May – 2<sup>nd</sup> July).</li> <li>Provide service to 320-380 tamariki/rangatahi. Funding allocated from MoH Planned Care.</li> </ul>	Action (to date)



То	Maaori Clinical Governance Roopuu
From	John Kenealy Exec Lead  Vulnerable Services Sarcoma Project
Date	12 November 2020
Subject	Regional Sarcoma Services Recommendation and Next Steps
For	Feedback
	mendations incur financial costs N pusly planned /approved?

### Recommendations

It is recommended that the Maaori Clinical Governance Roopuu:

- Notes the options for consideration for the Northern Region Sarcoma Service model.
- Endorses that the following immediate changes are taken to mitigate the vulnerability of the existing MDM and lists, pending transition to the agreed option in 2021/22
  - o Address succession planning and funding for the MDM coordinator / data base manager role
  - o Address concern about theatre access for operating lists at the MMH site
  - Address concern of regular access to GA radiology lists (supporting data to be provided).
- Notes the intent that the next stage development of the detail and implementation of change will be
  delivered with project leadership and clinical time as set out in the proposals agreed by REF for
  submission to the Ministry of health funding in response to the call for proposals for sustainability
  projects.

### **Background/Context**

- Post lockdown, the Northern Region's COVID-19 response turned to recovery. The NRHCC established the
  Hospital Capacity Service Improvement Steering group to lead an equity focused recovery program for
  planned care which included a particular focus on seven potentially vulnerable services to help them a)
  recover from the impacts of the COVID-19 lockdown and b) be more resilient with a particular focus on
  equity.
- The Regional Sarcoma Service delivered through Counties Manukau was initially identified as a vulnerable service due to changes in the specialist workforce that led to a change in referral for surgery patterns between CMDHB and ADHB without a clear plan to support a change in provider arrangements and the consequence of sarcoma surgeries displacing patients within the orthopaedic service at Auckland DHB.
- This 'vulnerable services' project was initiated utilising a rapid process with key regional leads leveraging
  the rapid progress gained under COVID, while incorporating some of the longer term goals in the LTIP and
  Cancer Deep Dive. The Executive sponsor for this project is Margie Apa, who has delegated day to day
  leadership to Aroha Haggie and John Kenealy.
- The driver and purpose of this project is to address the issues with regard to orthopaedic sarcoma. Where related services interface and/or could be part of the solutions they are in scope.













### The key problem to solve

### Equity of access and service provision

The regional sarcoma service operates on a split site basis across CMDHB and ADHB but there has been no lead taken by either DHB for planning the combined workforce, capacity and facility requirements of the service across the two providers. There has been a substantial unplanned change in the sarcoma patient flow between ADHB and CMDHB, without visibility of the clinical pathway across the region, or coherent service planning to proactively identify and agree the resources required and associated funding.

A key consequence is that the time-critical nature of sarcoma surgery has displaced other patients within the orthopaedic service at ADHB who are already disadvantaged by disproportionately long waiting times for elective surgery.

Data for sarcoma inpatient events for CMDHB and ADHB shows the change in patient flow. Total volumes increased from 2016 to 2017 in CMDHB and subsequently decreased in 2019/20, whilst volumes at ADHB had more than doubled (see Figure 1) and the majority of orthopaedic surgical treatment now takes place at ADHB.



Figure 1. Sarcoma inpatient events at CMDHB and ADHB, 2016/17 to 2019/20 (NMDS data).

Discussion with service leads has identified gaps in the core resourcing of the MDM hosted by Counties Manukau which leave the service highly vulnerable to the loss of a single individual, as well as sporadic access to theatre time for surgery and interventional radiology at CMDHB which is contributing to sustained failure to meet treatment time standards.

Data on costs has not been quality assured but suggests a prima facie case that the current arrangements are not financially sustainable either, with the split site arrangement costing close to \$3m on a WIES income of \$2m for the number and complexity of patients treated. Figure 2 captures the various drivers contributing to fragility of the service.

Despite the substantially challenged nature of the organisational arrangements, it is apparent that the nationally recognised MDM expertise in pathology and radiology that is provided by CMDHB clinicians, and the collaborative practice of the orthopaedic surgeons working across DHB boundaries in a regional way, with







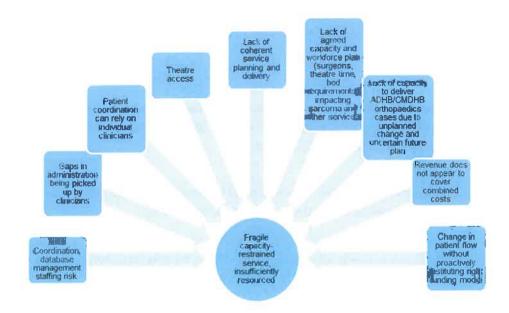






highly aligned views about future models of care mean there is the potential to create a high quality centre of excellence and equity for sarcoma care if managerial and service arrangements are addressed.

Figure 2. What's the problem we're trying to solve?



Providing a well-planned and appropriately resourced service will ensure optimal, equitable patient outcomes delivered in a timely manner, and importantly a well sign-posted and coordinated pathway for patients.

### **Current state**

Sarcoma encompasses bone (orthopaedic), soft tissue and retroperitoneal sarcomas. Sarcoma is a low volume, high complexity tumour stream requiring treatment from a highly specialised multidisciplinary team.



Recommendations from the UK National Institute for Clinical Excellence (Improving Outcomes Guidance, IOG) and the London Model of Care for Cancer Services set out the catchment size and minimum volumes by provider for a range of cancer procedures. For sarcoma this was a catchment area of 7 million for bone and 2-3 million for soft tissues with 100 cases per year for soft tissue and bone or 50 for bone if also undertaking 100 for soft tissue. The 2018 NRLTIP Cancer Deep Dive highlighted that 76 new cases in total for the region in 2014 split between two surgical treatment sites with a supra-regional MDM in place at CMDHB was not compliant with these recommendations.<sup>1</sup>

NRLTIP Cancer Deep Dive - Final Report 2018













The Sarcoma Multidisciplinary Meeting (MDM) is hosted by CMDHB and accepts referrals from all DHBs in the North Island. The MDM provides key diagnostic expertise to almost 1,000 patients per year, almost 90% of which do not go on to sarcoma surgery. There is specialised sarcoma radiology and pathology expertise at CMDHB and specialist surgeons over both ADHB and CMDHB sites. The service has evolved over time due to the high level of expertise of the individuals in the region.

Access to other specialist services in line with tumour pathways such as Paediatric / Adolescents and Young Adults (AYA) Oncology, Medical Oncology and Radiation Oncology, and Plastic Surgery are also key to the provision of comprehensive specialised sarcoma services within the northern region. A view of the current Multidisciplinary Team (MDT) and a pictorial view of the current service model are shown in Appendix 1 and 2, respectively.

### Waiting times

The service under current arrangements has consistently not been meeting Faster Cancer Treatment (FCT) wait time standards for patients for the last year of data collected: the FCT 62-day indicator was met in 78.6 % of patients vs target of 90% over 12 months from July 2019 to June 2020.

### Equity

Sarcoma is a low volume tumour stream and due to the relatively small numbers it has been difficult to make any conclusions with regard to identifying inequities in care for patients with sarcoma.

Data from the NZ Cancer Registry shows that for 2017, the total number of sarcoma registrations in NZ was 176, and the percentage of Māori with sarcoma was 19.89% (35/176). This is broadly consistent with the percentage of Māori in the NZ population in 2017 was 15.67% (see Figure 3).

Figure	2	Caraama	Registrations	. :	NIZ
rigure	J.	Sarcoma	Registrations	i III	NZ

	C40 to 41	C46	C48	C49	Total
Total	38	2	39	97	176
Māori	10	10	3	22	35
Non-Māori	28	2	36	75	141
Northern	9	2	16	31	58
Midland	5	0	4	10	19
Central	14	0	8	35	57
Southern	10	0	11	21	42

The northern region Faster Cancer Treatment performance data does not show a substantial difference between ethnicities, but the overall numbers are small (see Appendix 3.)

National FCT data have been requested and will be added when available.

The availability of survival data is limited, but the National 5-year survival rates for sarcoma in 2009 and 2010 were 49% and 46%, respectively (see Appendix 4 for survival data; not available by ethnicity).

A survival analysis in Adolescents and Young Adults (AYA) has shown that New Zealand achieves excellent survival outcomes for many common AYA cancers such as lymphomas, germ cell tumours, melanomas, and thyroid carcinomas and has also identified some specific cancers, namely bone and soft tissue sarcomas, CNS













tumours, and adolescent ALL, where the overall survival does not currently appear to meet international benchmarks<sup>2</sup>.

In the same study, comparisons by AYA diagnostic group provided evidence of a higher incidence of bone tumours for Maori which begs the question of whether ethnic differences in tumour biology might contribute to the particularly poor survival outcomes that were identified for this group.

### Patient experience

To date the Northern Cancer Network has not conducted sarcoma patient experience surveys or projects, and no information on sarcoma patient experience was available through the DHB patient experience services or the Cancer Society.

### What does good look like?

There is compelling evidence that for complex cancer procedures there is a positive relationship between the volume of patients that cancer services see and the outcomes that they achieve. This evidence suggests that perioperative mortality and long-term survival improves as hospital surgical volumes increase.

The Northern Region Expert Group has met several times over the past few months to discuss and work up what good looks like for a specialist sarcoma service, based on international literature and local experience. Figure 4 shows a summary of the aspirational picture agreed by the regional expert group.

Figure 4. What does good look like - the aspirational picture.



### What does good look like?

- Equitable access to treatment and outcomes for patients irrespective of domicile DHR
- · Care is responsive to individual patient and family needs and priorities
- · Appropriate support and rehabilitation for all people
- Continuity of access to regional specialist sarcoma expertise including an extended team of professionals including nursing, pathology, radiology, radiation oncology, medical oncology, allied health.
- Building on successful MDM with more systematised support
- Integration of specialised sarcoma cancer services
- Regionally agreed and costed service model in place including capacity, demand, infrastructure, workforce etc to ensure:
  - Resource in place to support and sustain delivery of high quality multidisciplinary care
  - Clerical support for clinicians
  - Theatre, clinic access etc.
- Funding plan agreed proactively



At a workshop on 09 October 2020, the expert group agreed the following principles when considering the aspirational picture of what good looks like in the context of the northern region:

Ideally each subspecialty would be on the same site

<sup>&</sup>lt;sup>2</sup> Ballantine et al. Small Numbers Big Challenges: Adolescent and Young Adult Cancer Incidence and Survival in New Zealand. Journal of AYA Oncology. Vol 6, No 2, 2017.













- Medical Oncology, Radiation Oncology and Paediatric Oncology/AYA can currently only be delivered at ADHR
- Pathology and Radiology should be on the same site and they are part of wider specialist teams and work closely together.
- Most Radiology can be done at the local DHB with oversight from specialist sarcoma radiologists if the right clinical pathways and protocols and payment mechanisms are in place.
- Sarcoma surgeons (including Paediatric Oncology/AYA) should be located on the same site to facilitate working together and optimal patient care.
- Although noted that pathology should ideally be located with surgeons due to advantages for frozen sections and in-person conversations.
- Sarcoma patients should have access to clinical trials. Clinical trials are accessed through medical
  oncology at ADHB as the national accredited centre. Colocation at ACH fosters opportunity to expand
  trials access for sarcoma patients.
- Sarcoma service coordination (includes MDM coordination) should incorporate database management

### **Options for consideration**

On the basis of the aspirational picture of what good looks like and the principles agreed by the expert group, the following are the options for consideration (see Appendix 5 for full options analysis):

• Single site for all tertiary and quaternary services related to sarcoma (Option 1 or Option 2).

Noted difficulties with these options currently are:

- Option 1: establishing sarcoma pathology and radiology expertise at ADHB
- Option 2: Radiation Oncology, Medical Oncology and Paediatric Oncology delivered at ACH
- Dual site options:
  - All treatment at ACH and sarcoma service coordination/ database management with Pathology and Radiology at MMH (Option 3a) or All treatment and sarcoma service coordination/ database management at ACH, with Pathology and Radiology at MMH (Option 3b).
  - All adult surgery at MMH with Pathology and Radiology and sarcoma service coordination/ database management; other aspects of treatment at Auckland City Hospital (Option 4)

Essentially both options 3a and 3b mean that all surgeons are on one site to facilitate collaborative working, both between the sarcoma surgeons and with the other treatment modalities (medical oncology, radiation oncology and paediatric oncology), but are on a separate site from pathology and radiology. The items for resolution include the location of the sarcoma service coordination/ database management, protocols for when frozen sections and plastic surgery are required, and workforce planning to cover the non-sarcoma component of CMDHB sarcoma surgeon (25-30% of FTE) and orthopaedic backfill at ACH.

And option 4 means that the sarcoma surgeons are on the same site as pathology and radiology, but separate from medical oncology, radiation oncology and paediatric oncology.

It is recommended that the lead site for surgery take the lead on capacity planning and management of the service overall whether on its own site or at an alternate site to ensure there is clear management and accountability for the whole tertiary care pathway. Noted that according to NICE guidelines<sup>3</sup>, there should be

<sup>&</sup>lt;sup>3</sup> NICE Guidance available at https://www.nice.org.uk/guidance/csg9/resources/improving-outcomes-for-people-with-sarcoma-update-pdf-773381485













a nominated clinician (clinical lead) who takes responsibility for the service and this should be reflected in their job plan. The clinical lead should be a member of the core MDT.

Noted that the site on which surgery capacity is centralised will need to provide required weekly theatre sessions and weekly clinic hours on site, to ensure the service has sufficient capacity to maintain waiting time standards as an essential quality requirement ((data for weekly theatre session and clinic hours to be provided)). It is recognised that for ACH or MMH this could require consideration of other work moving out of the site to make room to accommodate the service, and where this is not possible it may result in a reduction of access.

The service needs to deliver equitable access to treatment and outcomes for patients irrespective of domicile DHB and care that is responsive to the individual needs of patients, in particular to those who are most vulnerable. This includes having clear and visible pathways with attention to seamless coordination for patients throughout their journey.

### Recommendations

- Note the options for consideration for the Northern Region Sarcoma Service model.
- Endorse that the following immediate changes are taken to mitigate the vulnerability of the existing MDM and lists, pending transition to the agreed option in 2021/22
  - Address succession planning and funding for the MDM coordinator / data base manager role.
  - o Address concern about theatre access for operating lists at the MMH site.
  - o Address concern of regular access to GA radiology lists (supporting data to be provided).
- Note the intent that the next stage development of the detail and implementation of change will be
  delivered with project leadership and clinical time as set out in the proposals agreed by REF for
  submission to the Ministry of health funding in response to the call for proposals for sustainability
  projects.













### Appendix 1.

### The regional multidisciplinary team

THE RESERVE	ADHB	СМОНВ	
Core Multidiscipfinary Team	-6-6-6		NICE guidance Specification <sup>4</sup>
Specialist sarcoma surgeon	1 person, 0.8 FTE (orthopaedic) 1 person, FTE TBC (retroperitoneal)	1 person (0.70-0.75 FTE) (orthopaedic)	Min of 2 per MDT (These surgeons should have a major clinical interest in sarcoma)
Sarcoma clinical nurse specialist	ТВС	1 person, 1 FTE	Sufficient to allocate a clinical nurse specialist/key worker for each patient (but a minimum of two)
Specialist sarcoma pathologist	-	5 people* 2.5 FTE	At least one and ideally two
Specialist sarcoma radiologist		2.0 FTE	At least two with a special interest in musculoskeletal/oncological imaging
Medical Oncologist	2 people 0.4 FTE		
Radiation Oncologist	ТВС	-	
MDM Coordinator and secretariat support	N/A	Currently admin FTE in radiology; FTE TBC	
Palliative care specialist			

Extended Multidisciplinary Team		NICE guidance Specification
Specialist sarcoma physiotherapist		
Specialised allied health professionals		Consisting of other relevant AHPs, such as therapy radiographers, occupational therapists, dietitians and social workers, access to counseliors and/or psychologists
Specialist nurses		Including palliative care nurses and appropriately trained ward staff
Paediatric oncologist**	1 person, FTE TBC	
Other professionals including orthopaedic, plastic, head and neck, gynaecological, GI and vascular surgeons		

<sup>\*</sup>Currently spread across 5 people, needs to be  $\ge$ 3 people to allow for cover

<sup>&</sup>lt;sup>4</sup> NICE Guidance available at https://www.nice.org.uk/guidance/csg9/resources/improving-outcomes-for-people-with-sarcoma-update-pdf-773381485











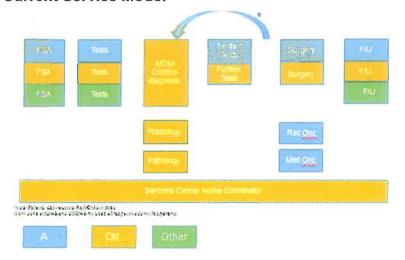


<sup>\*\*</sup>For Adolescents and Young Adults, there is crossover between ADHB orthopaedic oncology surgeon and paediatric sarcoma surgeon



### Appendix 2.

### **Current Service Model**















### Appendix 3. Northern Region FCT performance for sarcoma by ethnicity (2019/2020)

	Asian	European	Maori	Other	Pacific	Total
NDHB	0	5/5	2/2	1 0.1	0/0	7/7
WDHB	1/1	21/22	3/3	1/1	2/2	28/29
ADHB	1/3	9/10	3/3		3/4	16/20
CMDHB	3/3	10/11	3/3		9/10	25/27
Total	5/7	45/48	11/11	1/1	14/16	76/83













### Appendix 4.

Survival (%) by sarcoma type and region 2009- 2010.

Note 5yr survival can't be calculated beyond 2010

C40, C41, C46, C48, C49 ICD 10 code

			2009					2010		
	<1yr	1yr	3yr	5yr	Total	<1yr	1yr	3yr	5yr	Total
Northern										
Bone	21%	21%	21%	36%	100%	11%	22%	%9	61%	100%
Soft tissue	79%	70%	7%	46%	100%	37%	17%	%9	40%	100%
Midland										
Bone	25%	%0	%0	75%	100%	10%	30%	%0	%09	100%
Soft tissue	48%	%8	%0	44%	100%	28%	19%	11%	42%	100%
Central										
Bone	38%	%0	%0	63%	100%	%0	13%	13%	73%	100%
Soft tissue	76%	13%	13%	47%	100%	21%	38%	%8	33%	100%
Southern										
Bone	22%	11%	%0	%29	100%	17%	17%	%0	67%	100%
Soft tissue	15%	30%	3%	52%	100%	18%	24%	11%	47%	100%
Overseas										
Soft tissue										
Grand Total	27%	17%	2%	46%	100%	22%	23%	8%	46%	100%





# Continued: Survival (%) by sarcoma type and region, 2011-2013

Note 5yr survival can't be calculated beyond 2010

		7107					2102						
<1yr	1yr	3yr	>3yrs	Total	<1yr	1yr	3yr	>3yrs	Total	<1yr	1yr	>3yrs	Total
%0	%6 %	%6 9	82%	100%	18%	18%	%9	%65	100%	29%	10%	62%	100%
9			/000	1000%	700,1	70 V C	%00	%29	100%	15%	15%	%69	100%
14%	0 T/%	0%0	0250	<b>POT</b>	77.70	0/4-7	77	2750					
25%	6 25%	5 25%	25%	100%	22%	22%	11%	44%	100%	14%	14%	71%	100%
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## Appendix 5.

Table 1. Options analysis for regional sarcoma service model

	1) Have all specialties at ADHB	2) Have all specialties at CMDHB	3a) Have ail sarcoma surgeons on one site at ADHB	3b) Have all sarcoma surgeons, and sarcoma service coordination/database management on one site at ADHB	fit Have all sarcoma surgeons, and sarcoma service coordination/ database management on one site at CMDHB	5) Current model: sarcoma orthopaedic surgery split over 2 sites
What does this mean	All specialties at ADHB	All specialties at CMDHB (Note the difficulty of having rad onc, med onc and paed onc at CMH)	Surgeons together and with rad onc, med onc and paed onc but separate from sarcoma service coordination, pathology and radiology	Surgeons together and with rad onc, med onc, paed onc and sarcoma service coordination, but separate from pathology and radiology	Surgeons together and with sarcoma service coordination, pathology and radiology but separate from rad onc, med onc and paed onc.	Surgeons across two sites. Pathology and radiology together on one site and rad onc, med onc and paed onc together on other site. Note the following immediate changes to mitigate vulnerabilities: succession planning for sarcoma service coordinator availability of theatre lists at MMH and GA
Advantages	-Ideal model of all specialties on one site providing integrated specialised sarcoma service -Fosters opportunity to	Ideal model of all specialties on one site providing integrated specialised sarcoma service	-Facilitates collaboration between sarcoma orthopaedic surgeons, including scheduling of combined surgeries.	-Facilitates collaboration between sarcoma orthopaedic surgeons, including scheduling of combined surgeries. -Better collaboration	-Facilitates collaboration between sarcoma orthopaedic surgeons, including scheduling of combined surgeries.	-Note immediate changes above











Table 2. Description of options for regional sarcoma service model.

						1
5) Have all specialties on one site at CMDHB	`	>	<b>&gt;</b>	>	>	>
4) Current model: sarcoma orthopaed surgery split over 2 sites	sk	×	<b>&gt;</b>	<b>&gt;</b>	×	×
3) Move sarcoma orthopaed surgery on one site at CMDHB	•	×	<i>*</i>	^	•	•
2b) Move sarcoma orthopaed surgery and MDM on one site at ADHB	<b>~</b>		<b>,</b>	*	<u> </u>	×
2a) Move sarcoma orthopaed surgery on one site at ADHB	<b>*</b>	•	<b>,</b>	<b>,</b>	×	×
1) Have all specialtie s on one site at ADHB	<b>,</b>	>	<b>&gt;</b>	<b>&gt;</b>	·	>
	Orthopaedic sarcoma surgeons on same site	Orthopaedic sarcoma surgeons with general and paediatric sarcoma surgeons, medical oncology and radiation oncology	Pathology and radiology on the same site together	MDM on same site as pathology and radiology	MDM on same site as surgeons	MDM on same site as pathology and radiology and surgeons















### Regional Provider Capacity Planning and Response - Steering Group

Compiled papers relating to Vulnerable Services on following meeting dates:

- 30 April 2020
- 7 May 2020
- 14 May 2020
- 28 May 2020
- 11 June 2020
- 25 June 2020
- 2 July 2020
- 16 July 2020
- 27 August 2020
- 10 September 2020
- 8 October 2020
- 5 November 2020
- 19 November 2020
- 3 December 2020
- 17 December 2020

Northern Region Vulnerable Services: definition, identification and management

### Aim

Identify and intervene in vulnerable services where there is an opportunity for the Northern Region to act for health equity and patient safety reasons.

Note: This plan is intended for enduring vulnerability, not to address short term issues due to equipment failure or other emergency, but resolvable issues.

### **Principles**

- Services included for this work are:
  - not able to maintain appropriate, equitable access for patients without specific actions at regional level OR
  - o the specific local actions required are not affordable AND
  - o there is patient benefit in developing a regional service
- Vulnerability is ikely to be workforce related, resulting in significantly reduced capacity or failure to maintain care for a period of time. The issues are likely to be one of the following:
  - Isolated services, which may have insufficient volumes to justify a large enough specialist workforce team to be resilient, or otherwise are reliant on scarce subspecialist staff
  - Clinical services having expanded to a level of complexity of clinical interventions beyond the role delineation level of the site's related services to support safe and high quality care
  - Established services which have had difficulty in sustaining workforce in the face of fast rising population needs and expanding clinical demand
  - Local provider service developments that have led to duplicated services where more differentiated roles between sites would improve efficiency and quality
  - Service facilities which have become congested to the point that efficient flow through the facility becomes compromised
  - Current pathway design and clinical practice which leaves services benchmarking poorly
  - The way in which the service or services are currently provided for a local, regional or national
    population is not cost effective and a different way of delivering the service or reduced
    duplication within the Northern region enables a more efficient and sustainable service for all
    populations served

### Criteria

- 1. Service is not able to maintain or develop capacity resulting in a patient access and safety impact
- 2. Service risks completely failing
- 3. Clear opportunity to take a specific regional action to maintain safe or equitable care

### List of priority vulnerable services for review

- ORL (adult and paediatric) including all subspecialties (head and neck cancer etc)
- Maxillo facial surgery
- Ophthalmology
- Oral health
- Sarcoma
- Vasular surgery

### Proposed approach

- Identify regional lead, DHB key people and NRHCC/NRA resources to support
- Identify scope and expected outcomes
- Identify local and regional actions and implementation timeframes