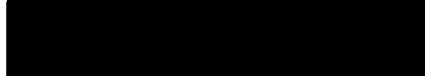
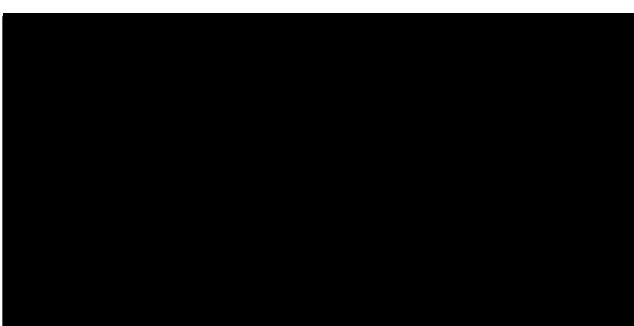




4 February 2020

Auckland DHB
Chief Executive's Office
Level 1
Building 37
Auckland City Hospital
PO Box 92189
Victoria Street West
Auckland 1142



Re: Official Information Act request – Cardiac Demand

I refer to your Official Information Act request dated 3 December 2019 requesting following information:

Since 1 January 2019, copies of any reports, documents, memoranda, reviews and briefings regarding cardiac treatment and surgery capacity and resource.

Information is provided below in relation to **cardiac surgery capacity and resource** at Auckland DHB for the period January – November 2019. This is management information and does not include the day-to-day operational data, from which the information is sourced.

The following reports for the last week of each month since January 2019 are attached:

1. Extract from MOS (Management Operating System) reports (Waitlists)
2. Ministry of Health cardiac surgery production reports (Surgery Throughput)

Note that these reports are produced weekly and we have assumed that one report per month is sufficient to provide a view of cardiac surgery capacity and resource over this period. In some cases, there were no reports for the last week of the month due to internal resource constraints or a public holiday at that time so the reports for the first week in the month following are included instead. Draft versions of these reports are not included.

Adult Cardiovascular Directorate

The following information is extracted from the Cardiovascular Directorate Quarterly Review report for November 2019. Note that previous quarterly reports in 2019 did not contain any information related to cardiac surgery capacity and resource.

CTSU¹ Delivery, Waiting List

The CTSU waiting list remains relatively stable despite growth in TAVI² procedures (which could have reduced demand on surgical waitlist). Weekly delivery remains significantly below the MOH target with variance averaging - 25%. The theatre capacity required to meet the MOH target is currently not available and changes to the model of care and lengthening the working day would be required to meet this. However, at present demand, i.e. referrals for surgery, would not support this level of throughput. As PVS³ is predicated in part on delivery close to the MOH target, this makes recurrent significant financial under-delivery highly likely. Further modelling work is being done to understand this better, as this will impact on decisions relating to the theatre staffing model and possible need for investment in staffing. Changes to the model of care to ensure some increase in capacity, ideally with phased approach to lengthening working days in theatres, is however essential to service delivery, particularly as the trend data advises the cardiac surgery service is at its peak during October/Nov/December with growth in P1 workload and emergency care. Waitlist and patient waiting times will need to be managed closely.

Further information is provided in the Hospital Advisory Committee (HAC) reports for March, June, September and November 2019, available [here](#).

Auckland DHB has a number of initiatives underway to improve the delivery of cardiac surgery. These are listed below:

- Cardiovascular Intensive Care Unit (CVICU) patient flow improvements to reduce the incidence of bed unavailability in CVICU – Enhanced Recovery After Surgery (ERAS) pathway and early discharge from CVICU to the ward for appropriate patients
- Patient transfer improvements from CVICU to enable transfer of more patients in the morning to improve access to CVICU beds for post-operative care.
- Patient discharge improvements from the ward – early blood round and X-rays (6am) to facilitate early patient discharge home and allow early transfer from CVICU to free up CVICU beds.
- Regular review and analysis of operating room utilisation and staffing to optimise scheduling and production
- Improved thoracic pathway to identify patients that do not need post-operative high dependency care to free up capacity.
- Trialling TAVI procedures in the Cardiac Intensive Care Unit (CIU) rather than the operating rooms to enable additional Aortic Valve Repairs (AVRs) to be scheduled.

¹ CTSU – Cardiac Thoracic Surgical Unit

² TAVI - Transcatheter aortic valve implantation

³ PVS – Price Volume Schedule

Starship Child Health

The Paediatric Cardiac and Congenital Service (PCCS) produces a range of operational reports which are variously detailed and relate to specific aspects of service performance. During 2019, PCCS provided a summary of the service's performance for Radio New Zealand, the Ministry of Health and for the patient and family support organisation Heart Kids. These summaries are provided below:

As context, it should be noted that on 29 January 2020, the Government announced a \$300 million capital investment in health, which included \$25 million to expand Starship's Paediatric Intensive Care Unit (PICU).

This \$25 million will deliver extra capacity for this national service to meet the growth in demand. The expansion project will see the number of beds in PICU increase to more than 30. Construction is planned to begin in early 2021.

The information below was provided to Radio NZ and the Ministry of Health before this funding was confirmed.

Summary provided to Radio New Zealand (July 2019)

- Starship's surgeons are the only paediatric cardiac surgeons permanently employed within New Zealand's public health system. However, there are a number of excellent, experienced locum surgeons who provided support on a temporary basis.
- The locum surgeons are specialist paediatric cardiac surgeons and they will be providing full-time cover between August and December.
- Starship's Paediatric and Congenital Cardiology Service (PCCS) runs around 100 PCCS outreach clinics across both North and South Island, each year. The clinics are planned with the local DHBs and scheduled throughout the year. Any minor change to the number of clinics from one year to the next, is based on the local DHB's clinical need and demand.
- Clinics may on occasion be postponed or affected by flight delays or cancellations, or by staff sickness. For example, a clinic in Palmerston North earlier this year was affected by a clinician's flight being delayed. In these situations, we work with the local DHB to reschedule the clinic.
- We started the recruitment process for a third paediatric cardiac surgeon in early June.
- We are currently recruiting for a third paediatric cardiac surgeon and expect to make that appointment in the next 8-12 weeks.
- We have been managing demand since one of our surgeons left in 2017. We are continuing to conduct high numbers of surgeries, with 402 surgeries conducted in 2018, compared with 390 in 2016.
- Currently there are 55-65 children on average on the wait list. In previous years this has typically been around 40-50 children. The increase is related to intensive care unit and surgical capacity.
- We will continue to review the wait list and prioritise children for surgery, according to clinical need.

- At times, surgeries do need to be rescheduled and so some patients may not receive surgery as promptly as they, their whānau or we would like. This is due to a number of factors but it is always informed by the clinical need of all our patients.
- There are 22 intensive care unit (ICU) beds in Starship. Since 2016, the number of staffed ICU beds has increased from 17 to 22 to manage demand.
- The Paediatric Intensive Care Unit (PICU) at Starship is a combined general and cardiac intensive care facility. It provides pre- and post-operative care for children undergoing treatment for congenital cardiac conditions. There is work underway to explore further expanding our Paediatric Intensive Care Unit bed capacity.

Summary provided to Ministry of Health – November 2019

The Paediatric and Congenital Cardiac Service (PCCS) is a national service based at Starship Hospital. This service is the sole provider of cardiology and cardiac surgical services for infants and children with congenital and acquired heart disease in New Zealand and parts of the Pacific Basin. We provide cardiac care across the life spectrum with a foetal cardiology service through to care of those born with congenital heart disease who are now adults (adult congenital heart disease - ACHD).

There are currently 65-75 children on average on the waiting list, this compares with a typical average of around 55-65 children.

The service performs a high volume of acute surgeries and surgery on infants less than one year old. The wait list is continually prioritised to manage the safety of all patients.

There are currently two significant impacts on elective surgical waiting times, Paediatric Cardiac Surgeon capacity and post-operative intensive care bed capacity. Surgeon capacity is being addressed with locums, a new recruit in December 2019 and a further new recruit expected in early/mid-2020. However because we have reduced surgeon capacity, we are currently running one, rather than 2 operating rooms. This was planned, allowing us to maintain clinical safety and also allow for leave and to prevent excessive workload on current surgeons. We will be increasing back to two operating rooms in December.

Paediatric Intensive Care capacity was increased significantly (approximately 35%) over the last 3-4 years with investment from both the MoH PCCS support (2 beds) and ADHB (4 beds). PICU nurse recruitment is on-going and will be complete in Q3 2019/20, at which time all PICU beds are resourced. Beyond 2020 PICU will require an expansion of the current physical facility and a business case for this is in development. As part of the ADHB critical care strategy, we have done extensive modelling of critical care demand and capacity to ensure we understand the future requirements and can plan for these. This is informing the PICU physical bed business case.

Waiting times have increased in Q1 2019/20, largely due to the impact of acute patients and access to post-operative beds. The expected ESPI 5 performance for the balance of this financial year is as below. We have not recovered at the rate we were initially predicting, due to acute workload and the surgeon and PICU capacity issues above. We expect that waiting times will peak in Q2 and will start to see significant recovery in Qs 3 and 4 as we increase surgeon and OR capacity.

	ESPI-5 WL		ESPI-5 Non-Compliance Volume		ESPI-5 Non Compliance %	
	ACHD	Paed Cardiac	ACHD	Paed Cardiac	ACHD	Paed Cardiac
18/19 Q4	20	73	2	4	10.0%	5.5%
19/20 Q1	20	88	2	15	10.0%	17.0%
19/20 Q2	18	95	5	20	27.8%	21.1%
19/20 Q3	17	82	4	10	23.5%	12.2%
19/20 Q4	17	74	3	8	17.6%	10.8%

Summary provided to Heart Kids September 2019

Please see attached.

You are entitled to seek a review of the response by the Ombudsman under section 28(3) of the Official Information Act. Information about how to make a complaint is available at www.ombudsman.parliament.nz or freephone 0800 802 602.

Please note that this response, or an edited version of this response, may be published on the Auckland DHB website.

Yours faithfully



Ailsa Claire, OBE
Chief Executive

Waitlists

CTSU

↘ Bypass Wait List: 80

↗ 7 P1

Targets

(Total 113)

(Longest wait 10 days)

113 patients (MoH); 85 (ADHB)

10 days (MoH)

↘ 57 P2

(Longest wait 119 days)

↗ 16 P3

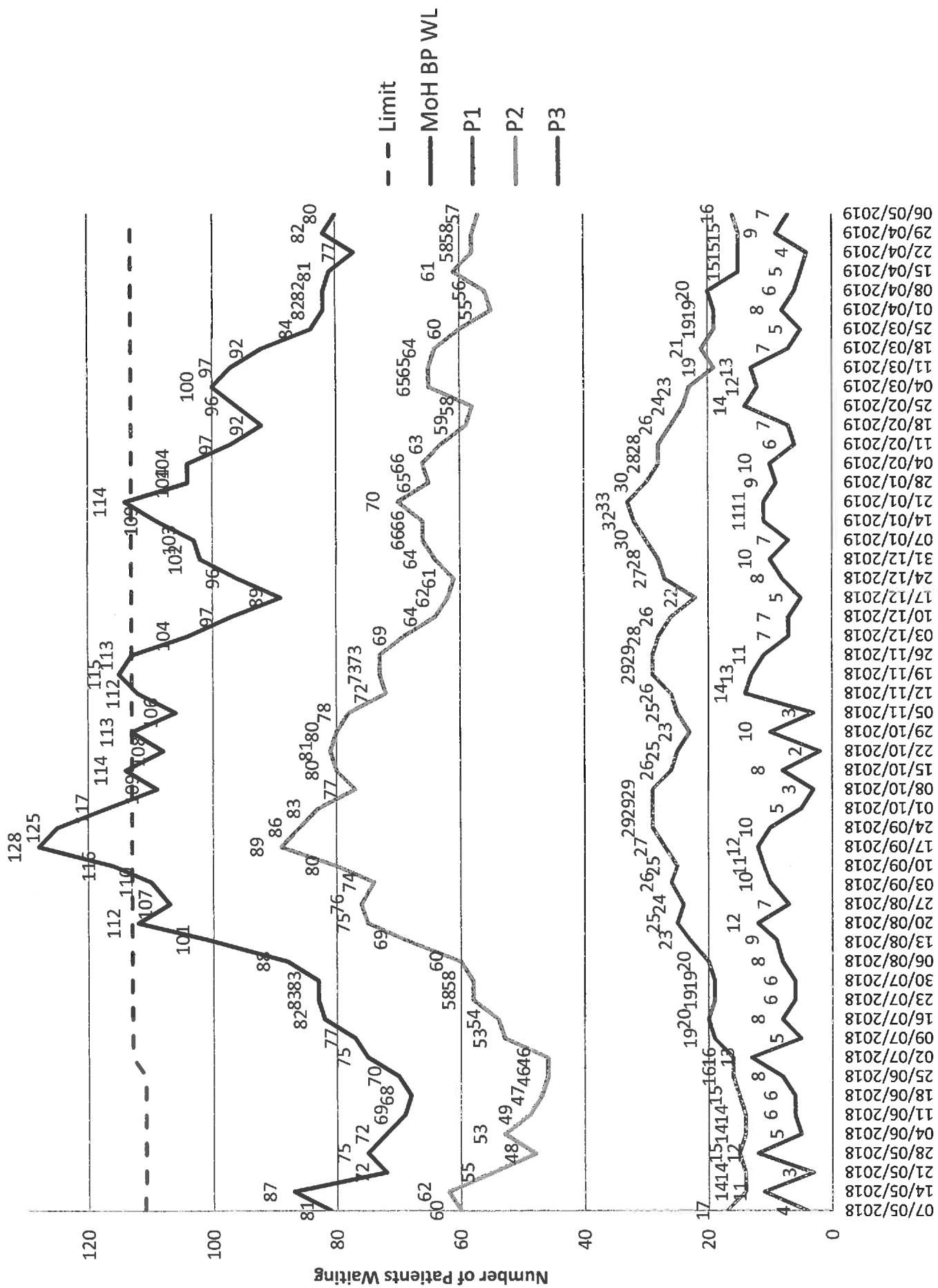
(Longest wait 118 days)

30 days (MoH)

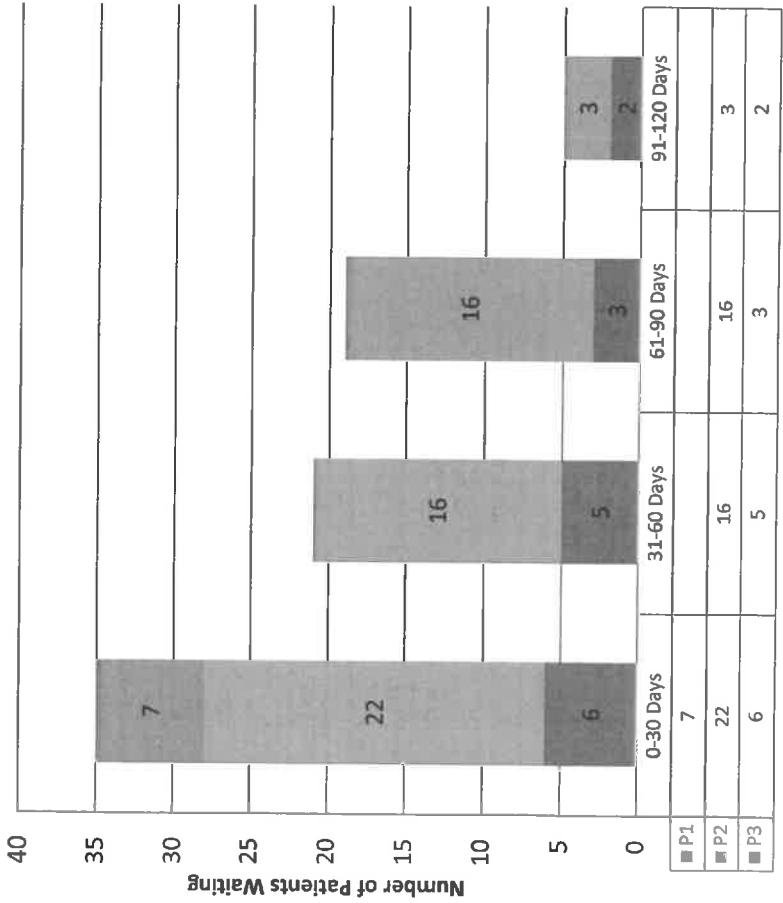
120 days (ESPI5)

CTSU MoH BP Waitlist

Updated 6th May 2019



CTSU MoH BP WL Breakdown



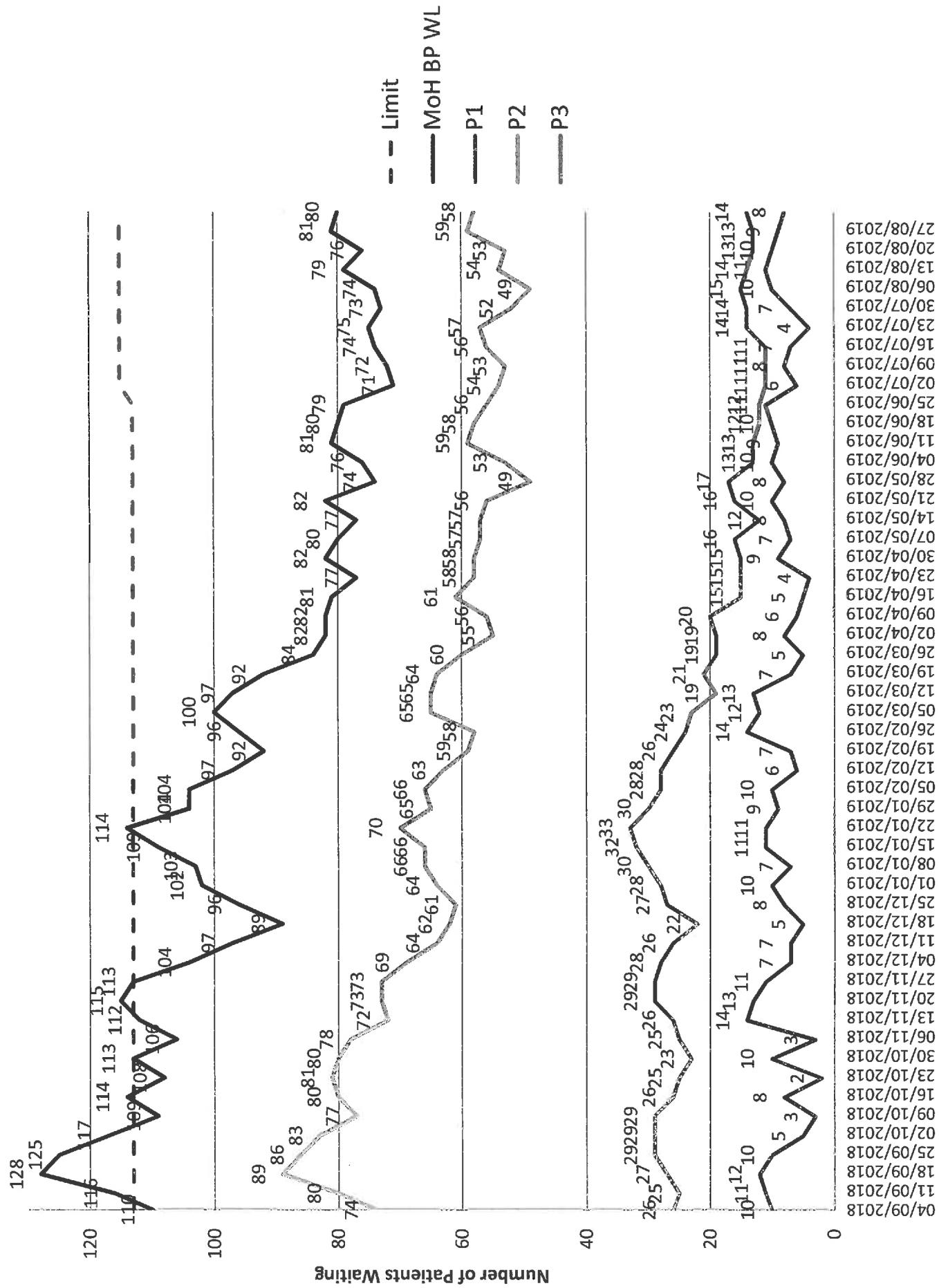
Waitlists

CTSU	Targets
↗ Bypass Wait List: 80	(Total 131)
↗ 8 P1	(Longest wait 14 days)
↗ 58 P2	(Longest wait 98 days)
→ 14 P3	(Longest wait 77 days)

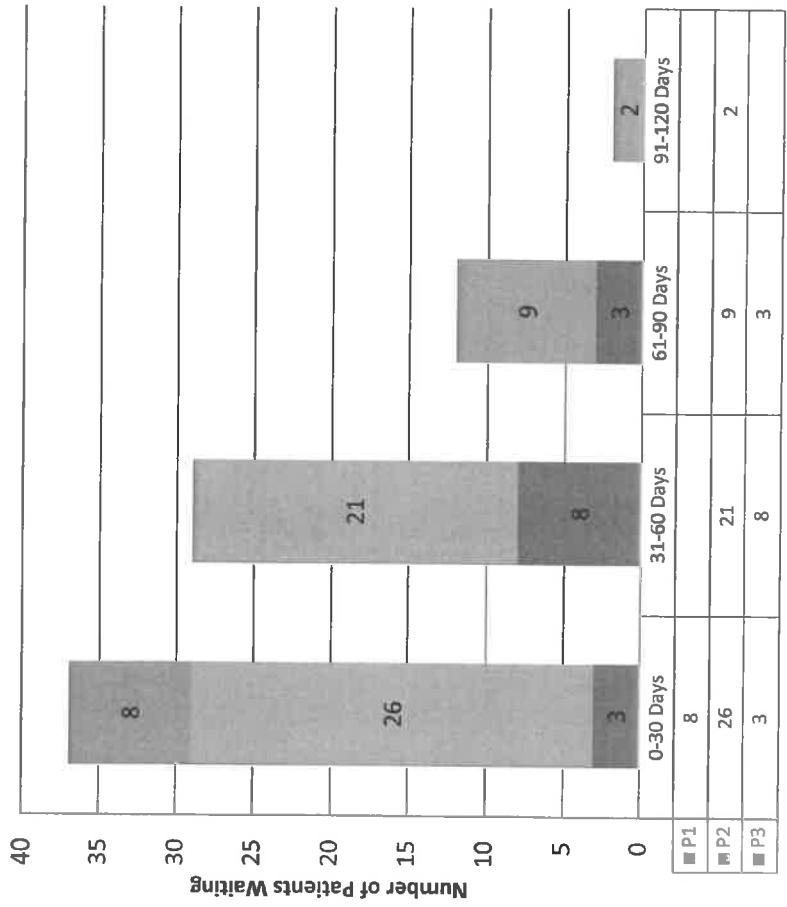
Waitlists	Targets
↗ Bypass Wait List: 80	(Total 131)
↗ 8 P1	(Longest wait 14 days)
↗ 58 P2	(Longest wait 98 days)
→ 14 P3	(Longest wait 77 days)

CTSU MoH BP Waitlist

Updated 2nd July 2019



CTSU Moh BP WL Breakdown



Waitlists

CTSU

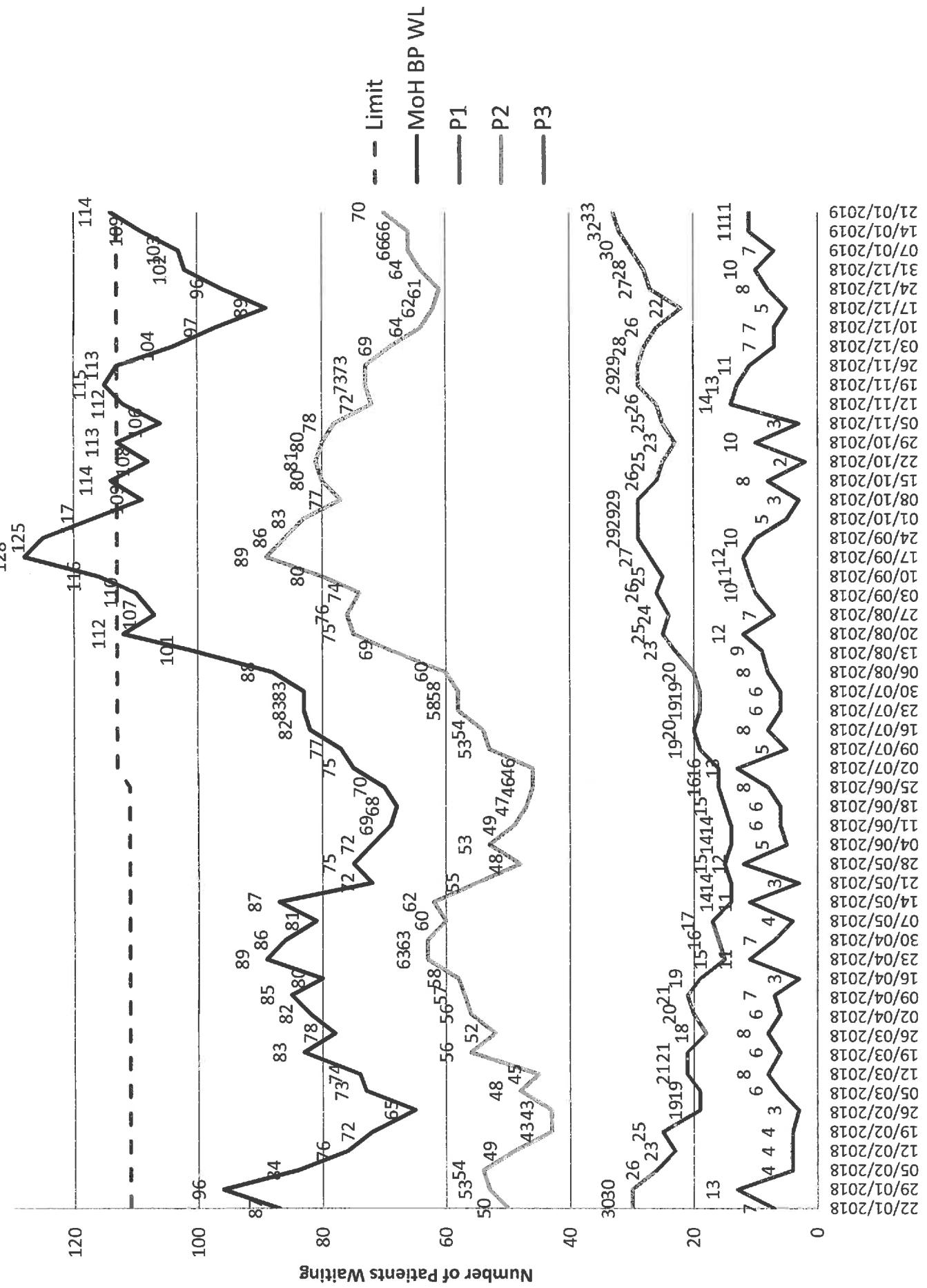
- ↗ Bypass Wait List: 114 (Total 154)
→ 11 P1 (Longest wait 7 days)

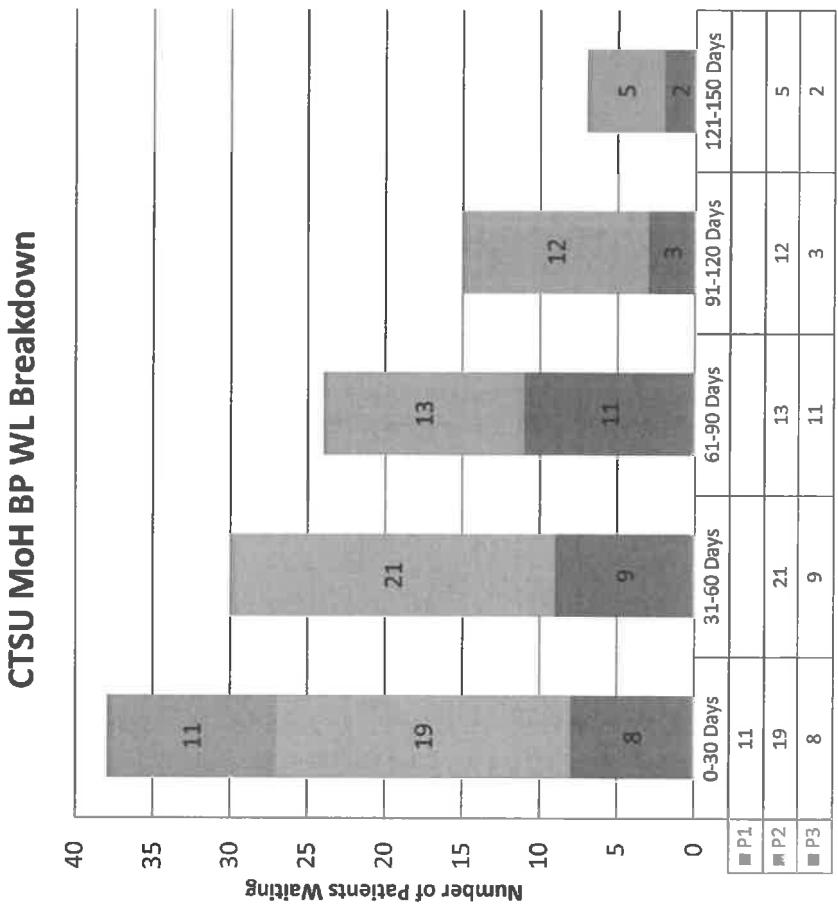
Targets

	Targets
	113 patients (MoH); 85 (ADHB)
	10 days (MoH)
↗ 70 P2	(Longest wait 129 days) 30 days (MoH)
↗ 33 P3	(Longest wait 126 days) 120 days (ESPI5)

CTSU MoH BP Waitlist

Updated 21st January 2018





Waitlists

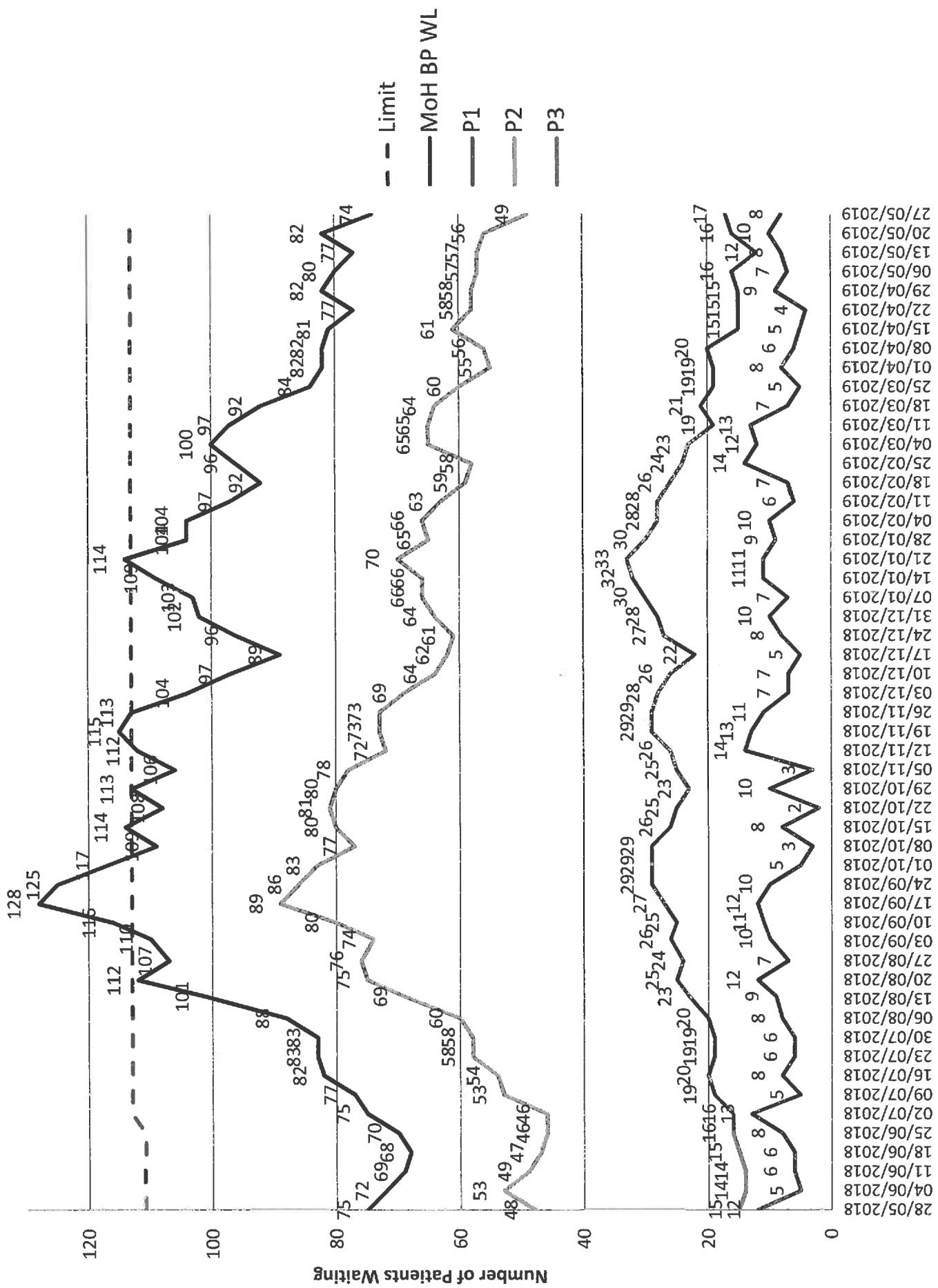
CTSU

	Targets
↳ Bypass Wait List:	74 (Total 105)
↳ 8 P1	(Longest wait 14 days)
↳ 49 P2	(Longest wait 102 days)
↗ 17 P3	(Longest wait 129 days)

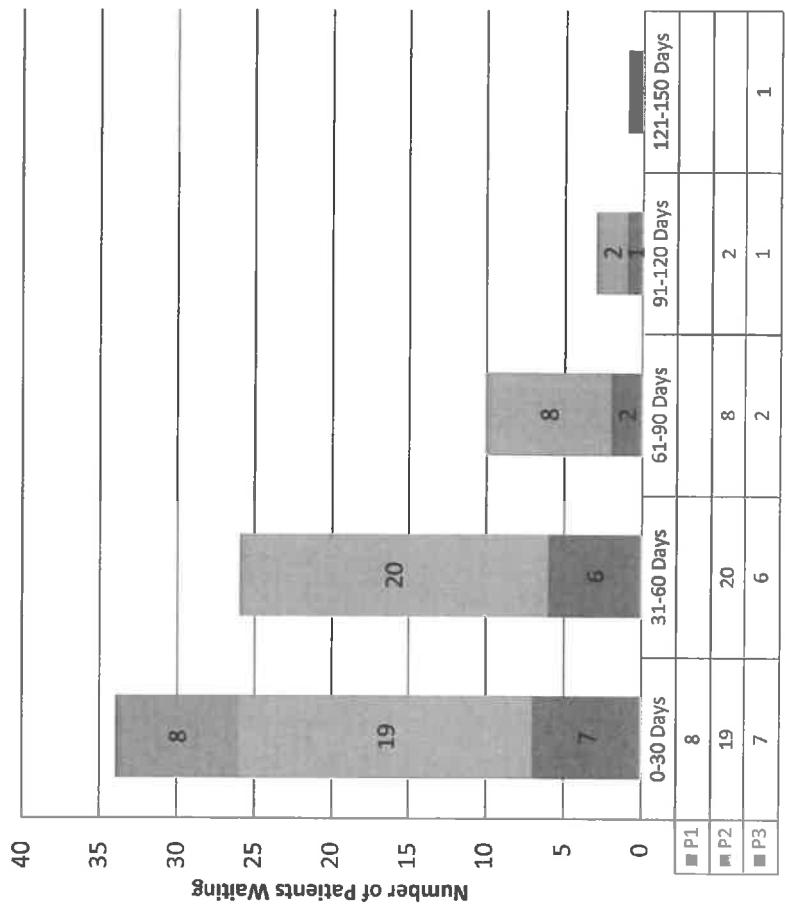
	Targets
	113 patients (MoH); 85 (ADHB)
	10 days (MoH)

CTSU MoH BP Waitlist

Updated 27th May 2019



CTSU Moh BP WL Breakdown



Waitlists

CTSU

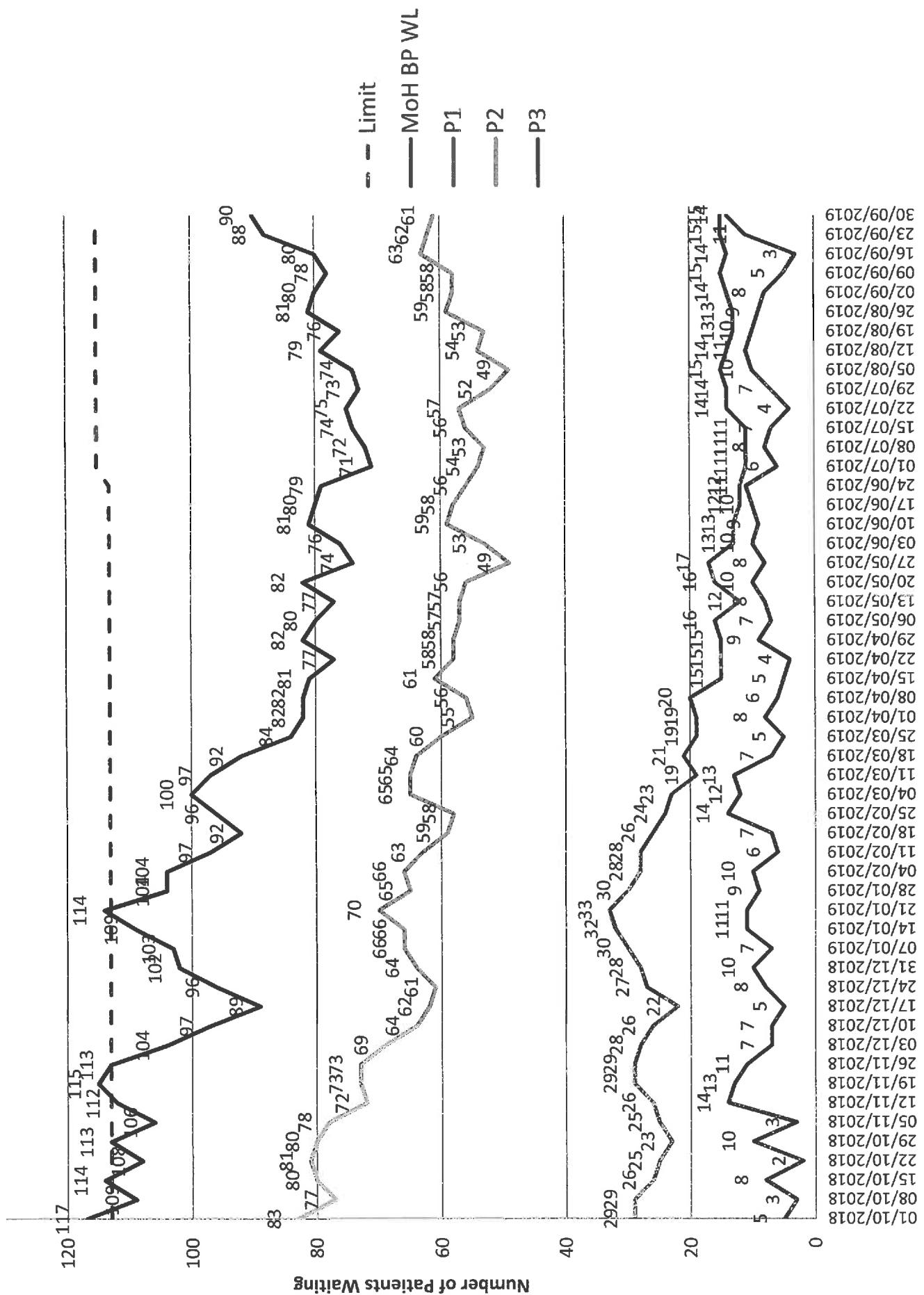
- ↗ Bypass Wait List: 90 (Total 138)
- ↗ 14 P1 (Longest wait 12 days)

Waitlists

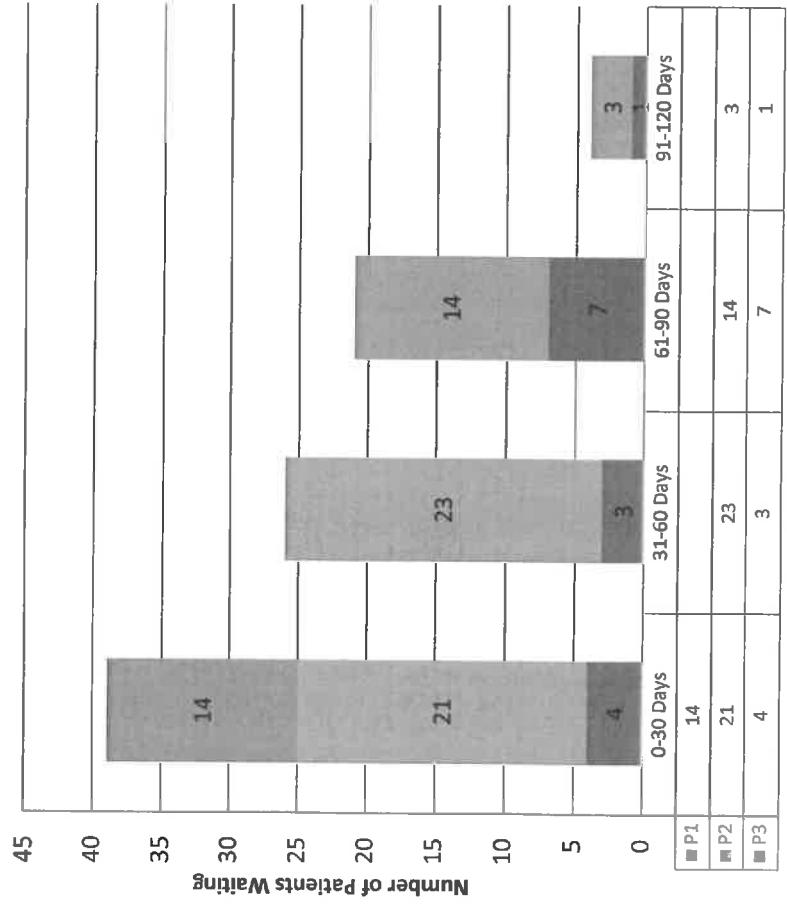
- Targets
 - 115 patients (MoH); 85 (ADHB)
 - 10 days (MoH)
-
- ↙ 61 P2 (Longest wait 109 days) 30 days (MoH)
 - 15 P3 (Longest wait 94 days) 120 days (ESPI5)

CTSU MoH BP Waitlist

Updated 30th September 2019



CTSU Moh BP WL Breakdown

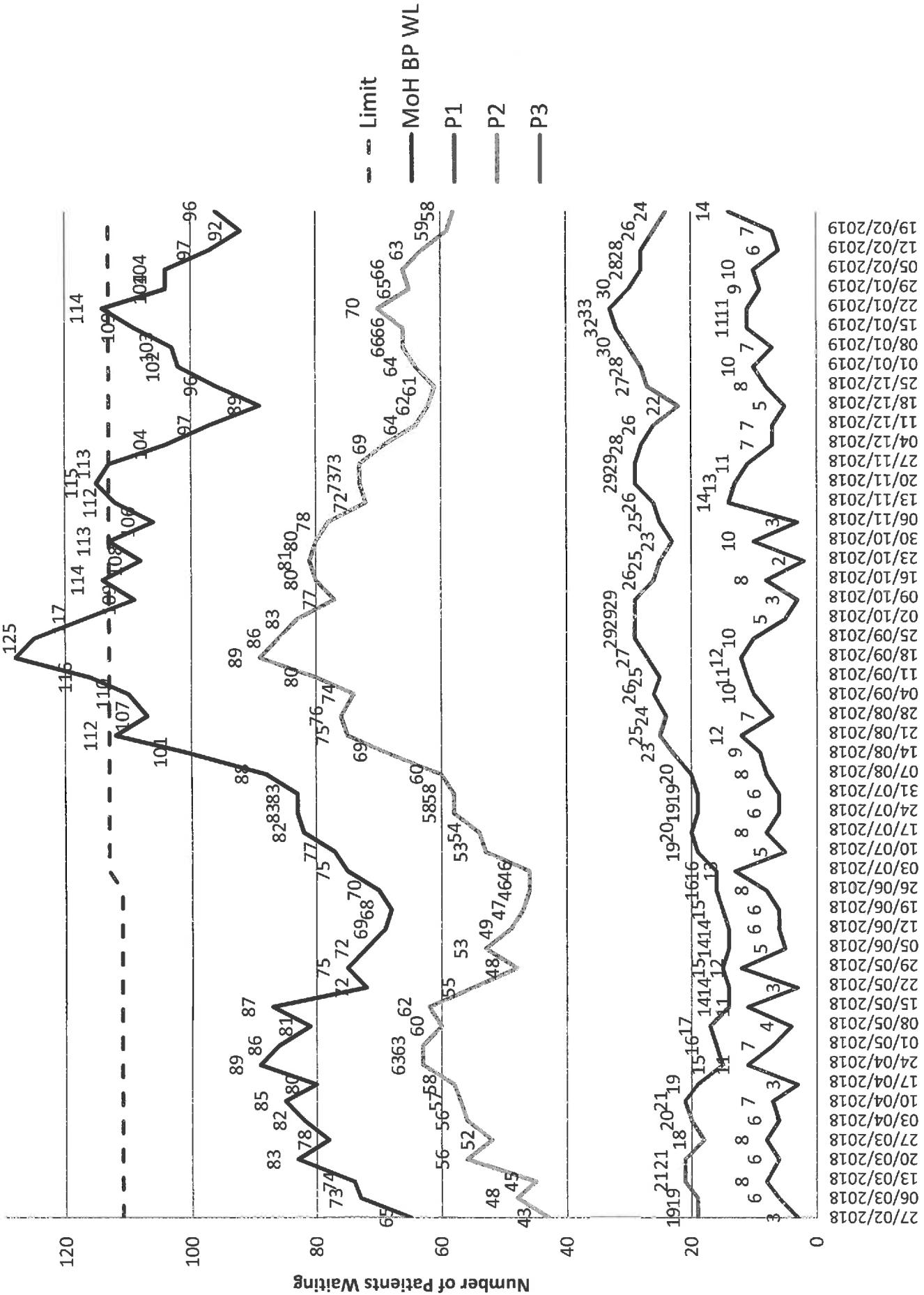


Waitlists

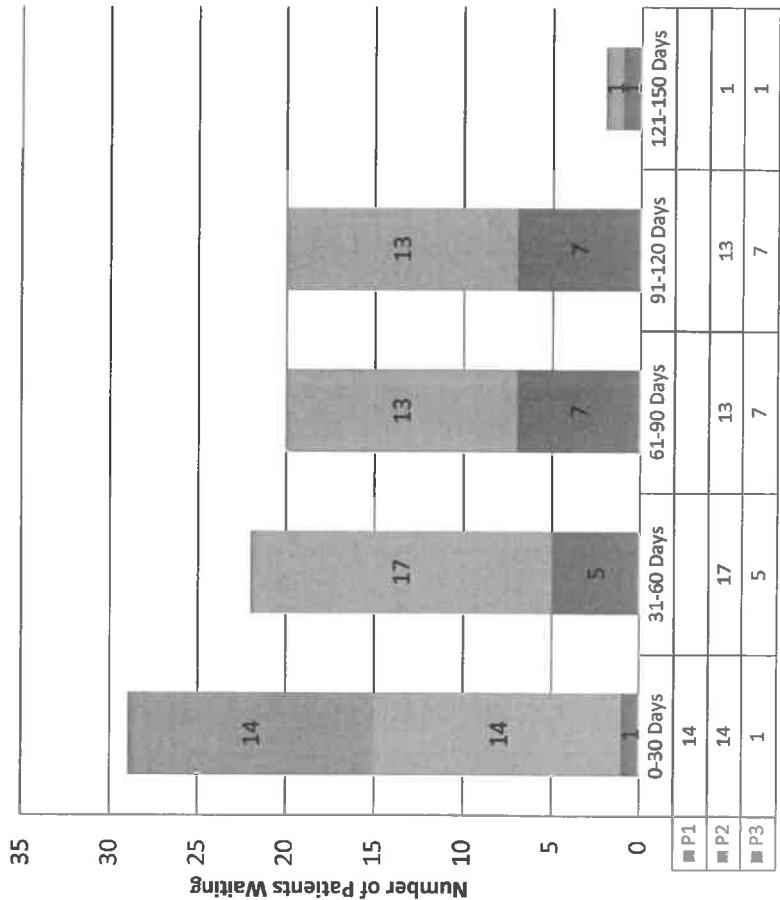
CTSU	Targets
↗ Bypass Wait List: 96	(Total 136) 113 patients (MoH); 85 (ADHB)
↗ 14 P1	(Longest wait 7 days) 10 days (MoH)
↘ 58 P2	(Longest wait 122 days) 30 days (MoH)
↘ 24 P3	(Longest wait 125 days) 120 days (ESPI5)

CTSU MoH BP Waitlist

Updated 25th February 2019



CTSU MoH BP WL Breakdown



Waitlists

CTSU

↘ Bypass Wait List: 79

(Total 117)
↗ 11 P1

↘ 56 P2

→ 12 P3

Targets

113 patients (MoH); 85 (ADHB)

(Longest wait 18 days)
10 days (MoH)

(Longest wait 102 days)

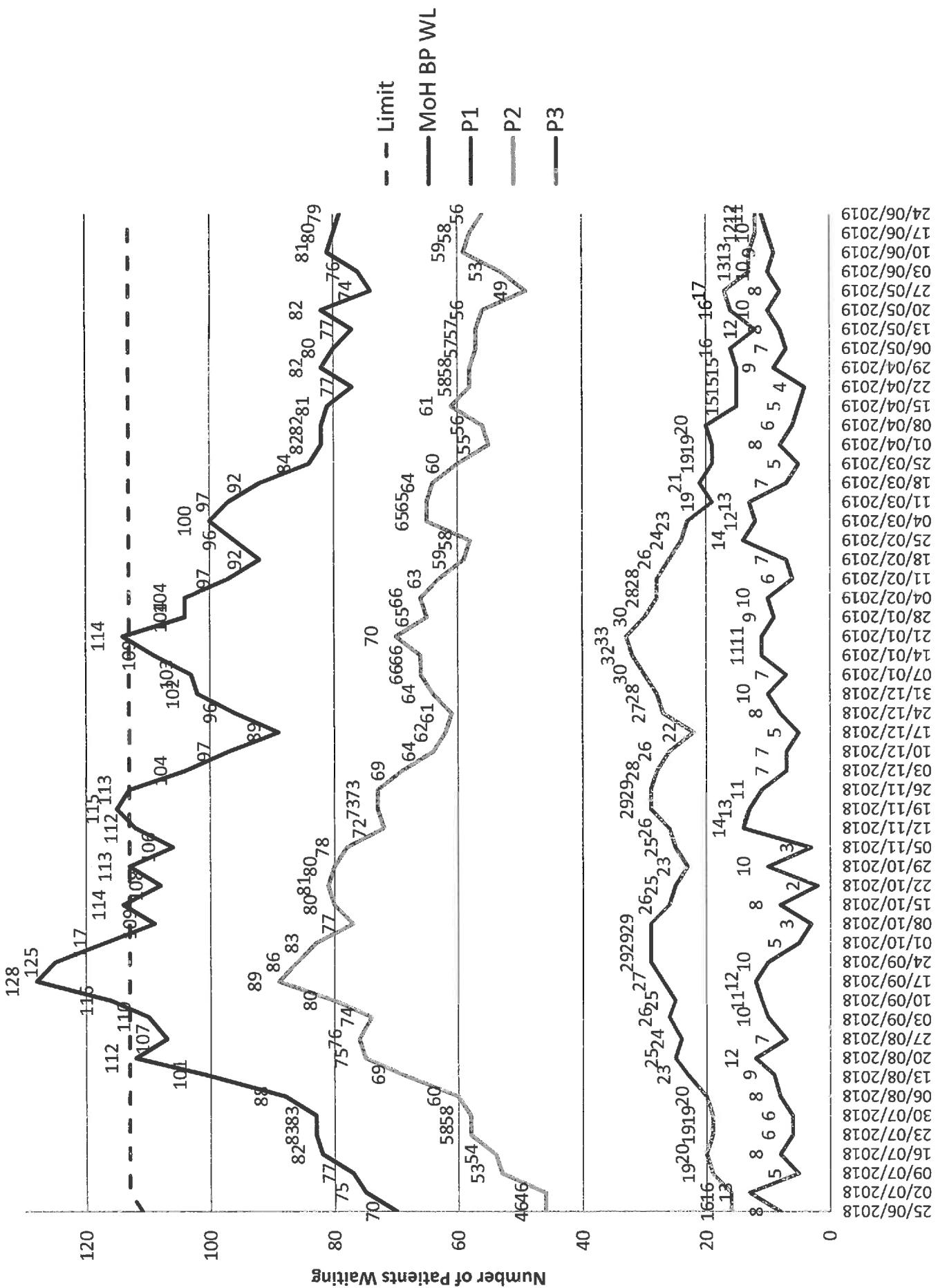
(Longest wait 119 days)

30 days (MoH)

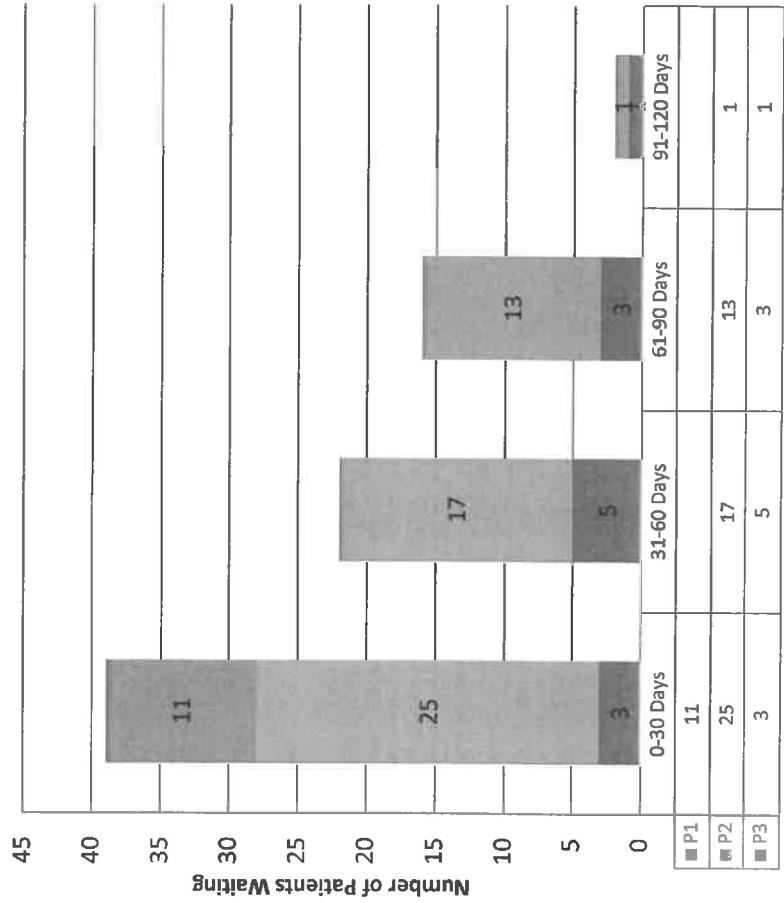
120 days (ESPI5)

CTSU MoH BP Waitlist

Updated 24th June 2019



CTSU Moh BP WL Breakdown



Waitlists

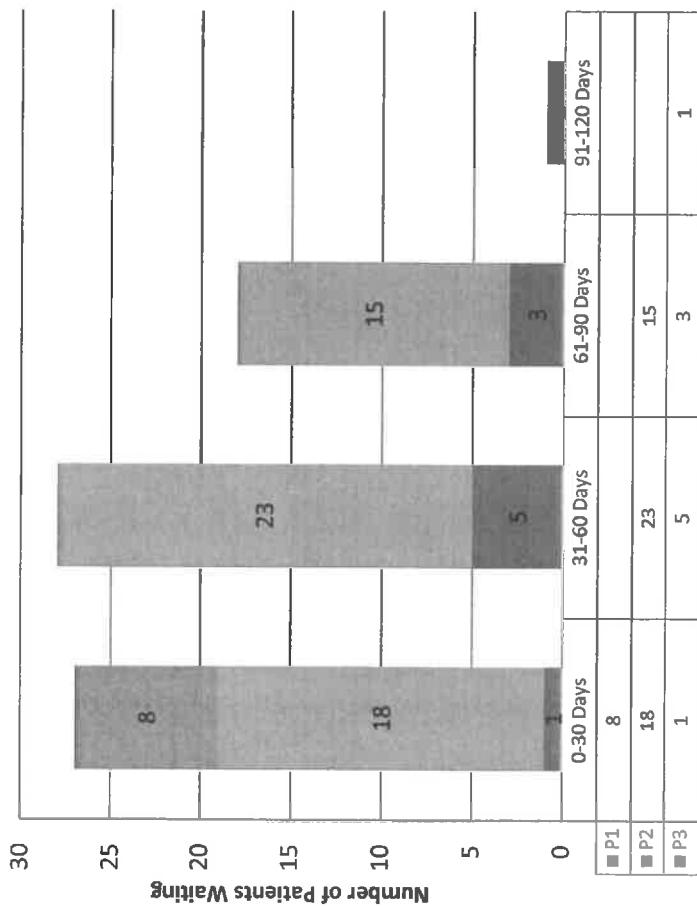
CTSU

- Bypass Wait List: 74 (Total 121)
↗ 8 P1

Targets

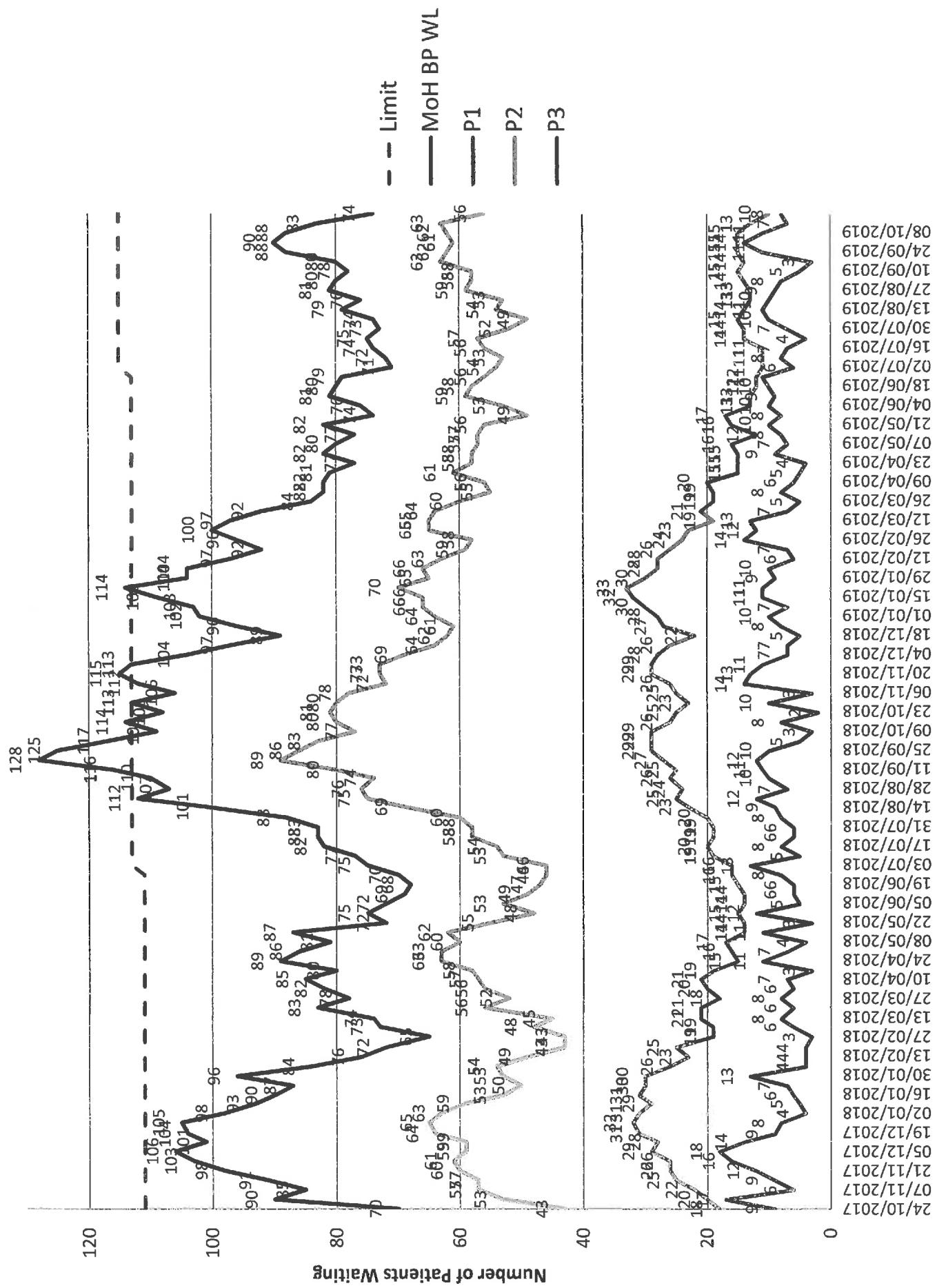
- | | Targets |
|-------------------------------|---------------|
| 115 patients (MoH); 85 (ADHB) | 30 days (MoH) |
| (Longest wait 10 days) | 10 days (MoH) |
- 56 P2
➤ 10 P3

CTSU MoH BP WL Breakdown



CTSU MoH BP Waitlist

Updated 21st October 2019



Waitlists

CTSU

- Bypass Wait List: 84
- 5 P1

Targets

- (Total 125)
- (Longest wait 4 days)
- 113 patients (MoH); 85 (ADHB)
- 10 days (MoH)

- 60 P2
- 19 P3

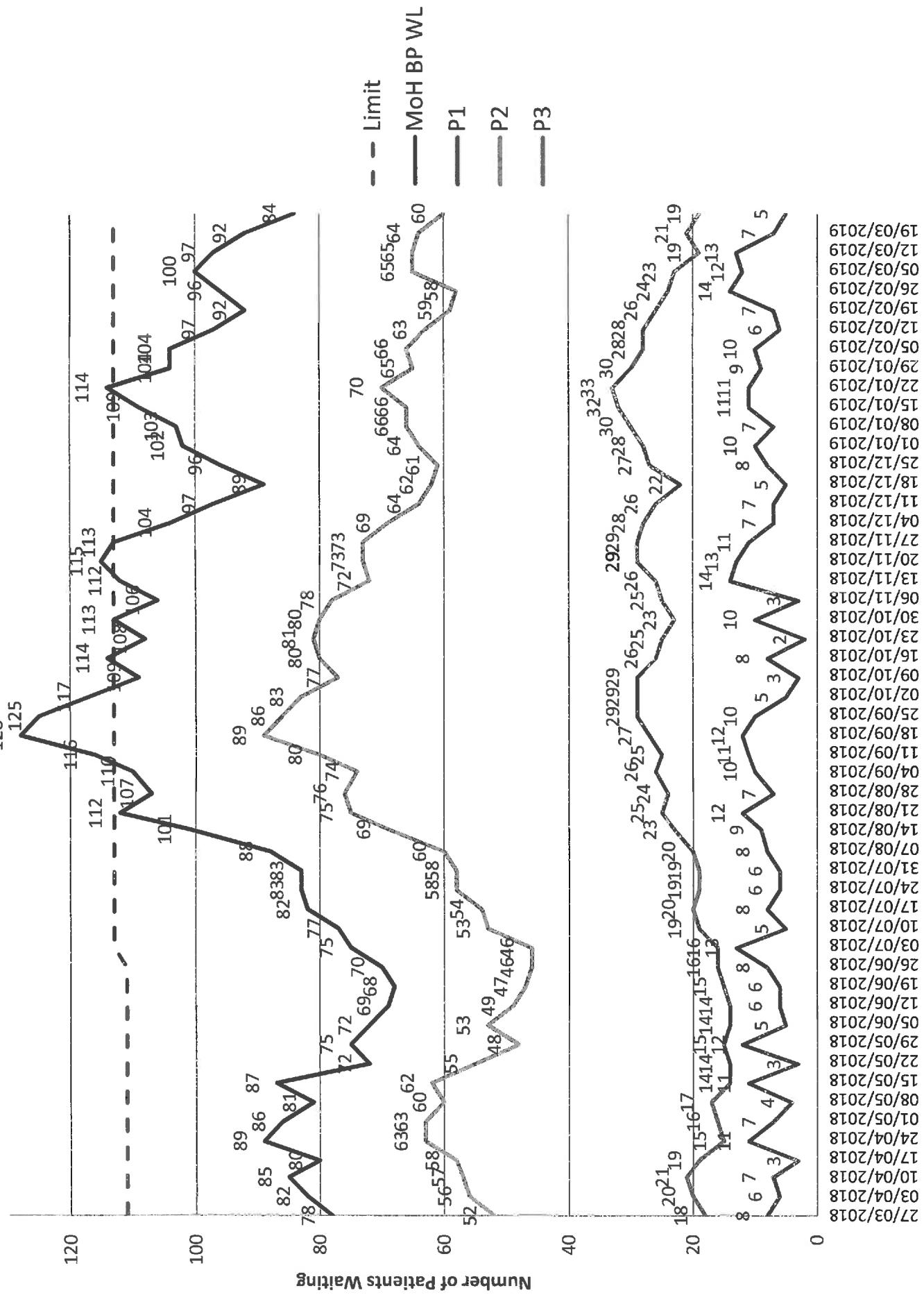
- (Longest wait 131 days)
- (Longest wait 115 days)

30 days (MoH)

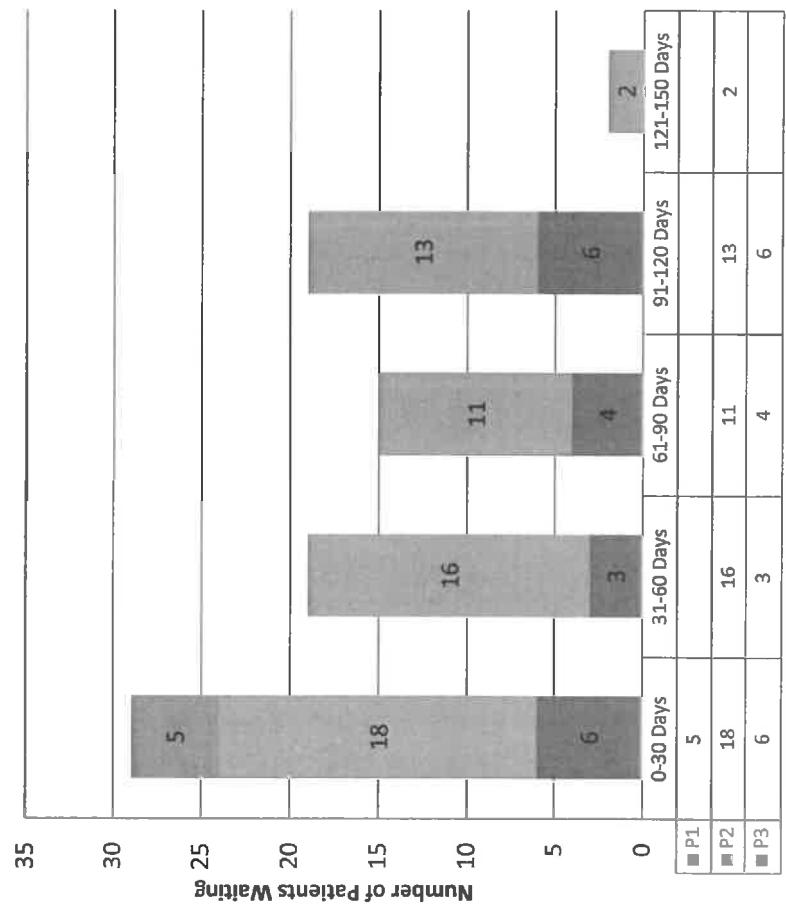
120 days (ESPI5)

CTSU MoH BP Waitlist

Updated 25th March 2019



CTSU Moh BP WL Breakdown



Waitlists

CTSU

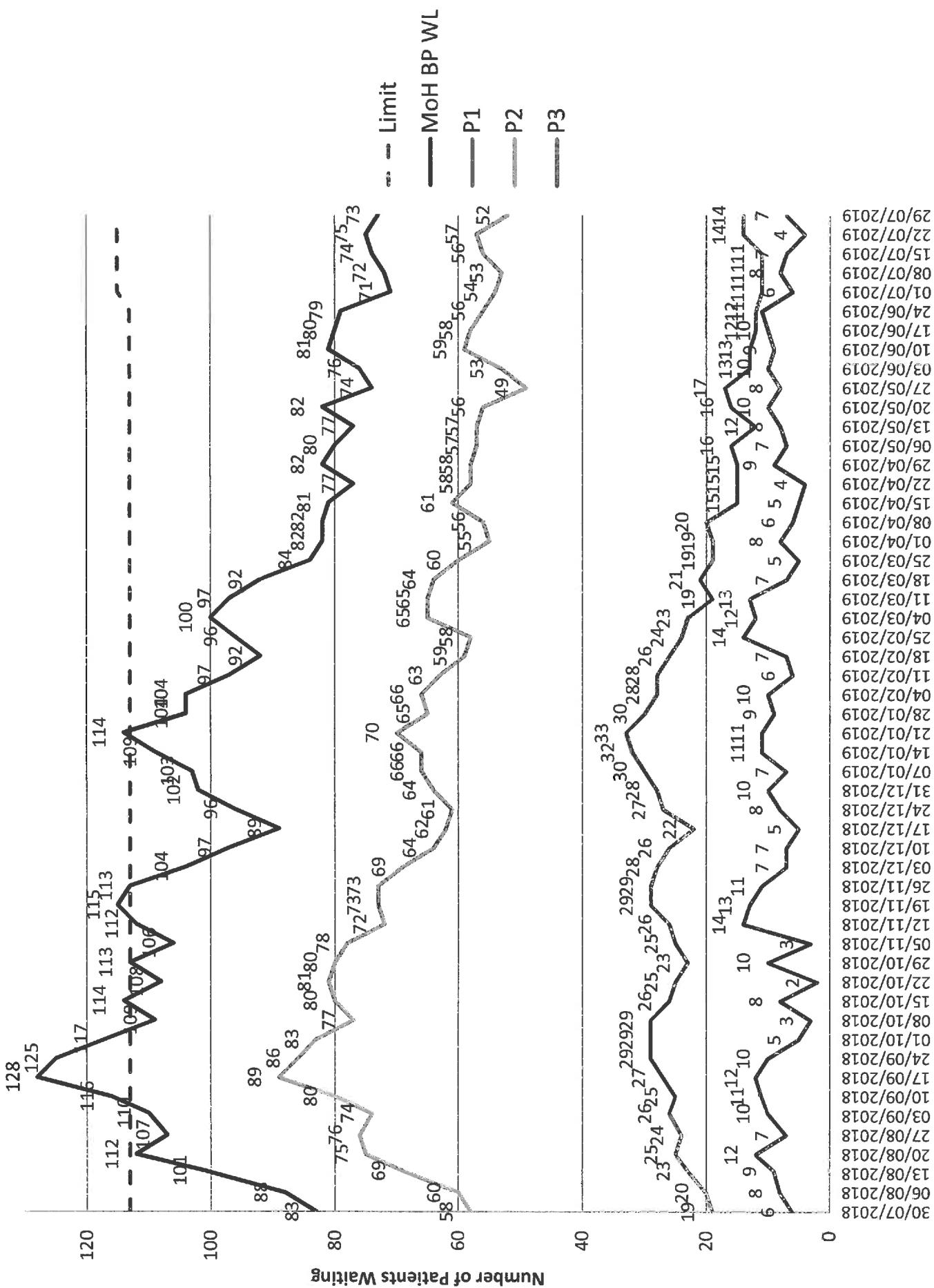
- ↳ Bypass Wait List: 73
 - ↗ 7 P1

Targets

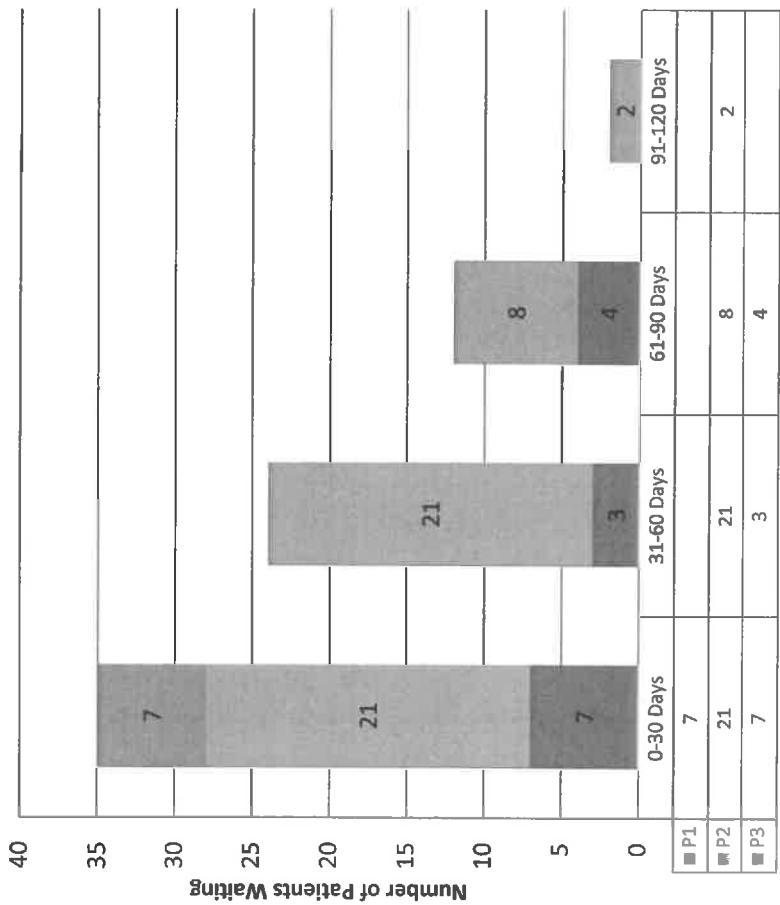
		Targets
↳ Bypass Wait List: 73	(Total 109)	115 patients (MoH); 85 (ADHB)
	(Longest wait 12 days)	10 days (MoH)
↳ 52 P2	(Longest wait 105 days)	30 days (MoH)
→ 14 P3	(Longest wait 76 days)	120 days (ESPI5)

CTSU MoH BP Waitlist

Updated 29th July 2019



CTSU MoH BP WL Breakdown



Waitlists

CTSU

↗ Bypass Wait List: 74 (Total 109)

↘ 10 P1
 ↗ Longest wait 13 days)

↗ 55 P2

(Longest wait 96 days)

↘ 9 P3

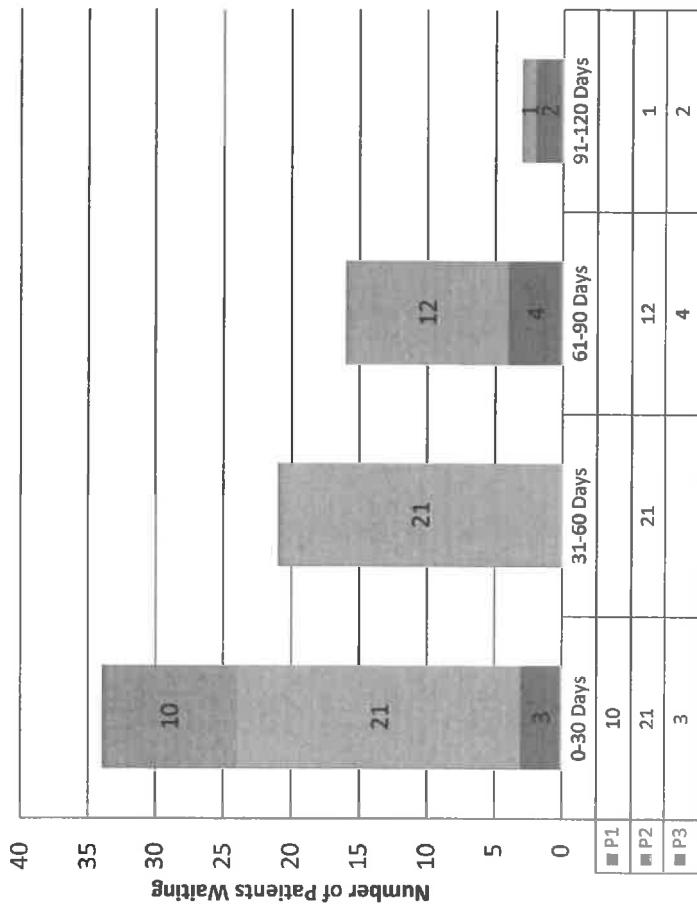
(Longest wait 97 days)

Targets

115 patients (MoH); 85 (ADHB)

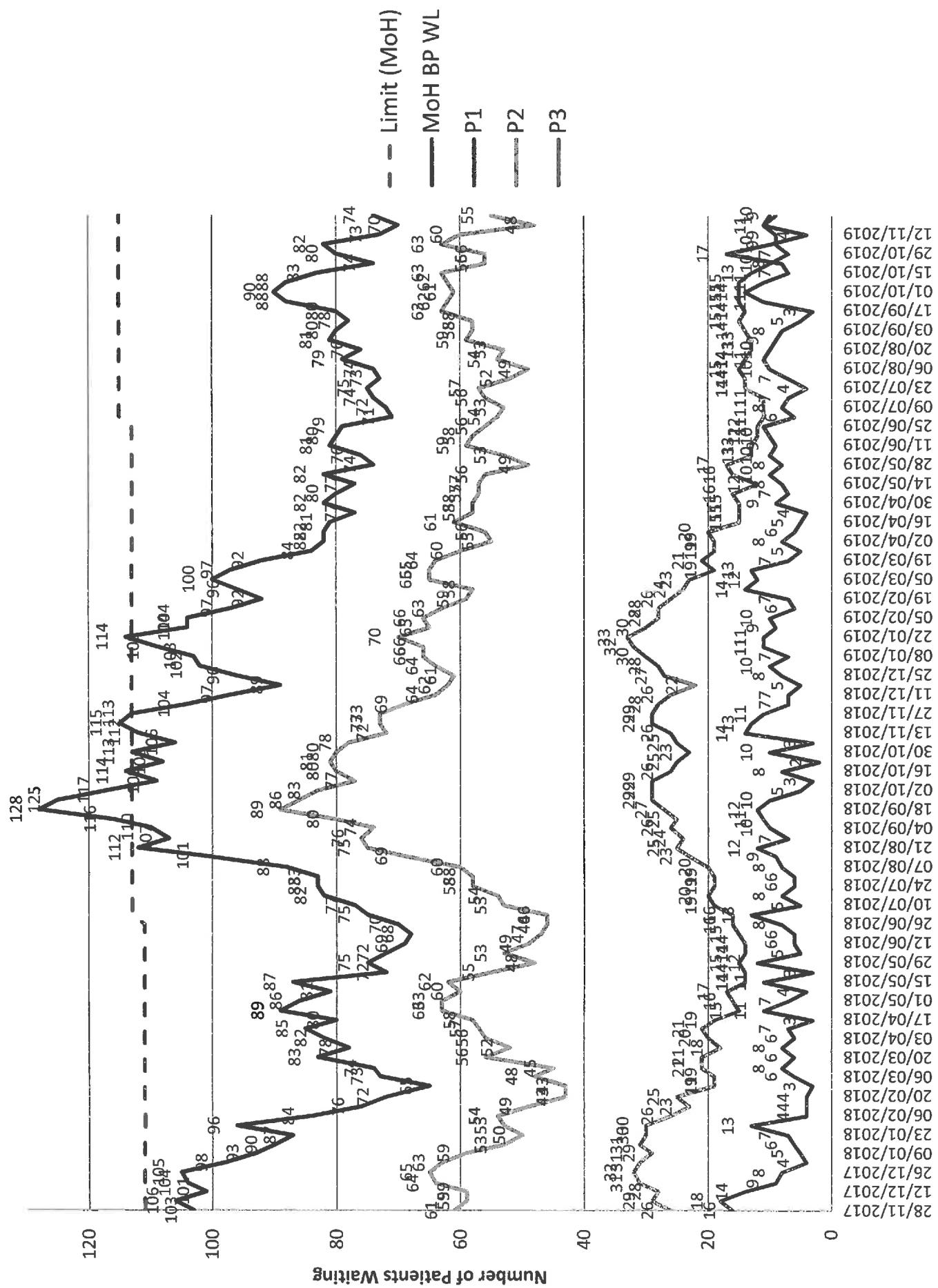
10 days (MoH)

CTSU MoH BP WL Breakdown



CTSU MoH BP Waitlist

Updated 25th November 2019



Weekly Cardiac Reporting

All cardiac providers must supply weekly reporting to the Ministry of Health's electives team by 12pm Tuesday at the latest, for the week just completed (Monday to Sunday). This information must be submitted in this template to Rachel_Pearce@MoH.govt.nz.

The template is required for you to report only patients from your regional Domicile treated in your facilities (public and private). Patients domiciled to your region treated by another Cardiac provider will be included in your template by the Ministry once each financial quarter and this information will be sent to you. These patients will be counted to your regional delivery against your target.

As in 2017/18, the frequency of reporting will be determined by three key areas of performance. A DHB will remain on weekly reporting until the following three requirements are consistently met.

1. Waiting list management – the cardiac surgery waiting list remains below the agreed maximum
2. Treatment timeframes – patients consistently and reliably receive treatment within maximum waiting times
3. Delivery against plan – weekly delivery is consistently and reliably at or above plan, and overall delivery remains ahead of plan

If all three of the above requirements are met for a sustainable period of time your reporting remain at four weekly.

Definition of Cardiac Surgery

Cardiac surgery is defined as coronary artery bypass graft (CABG), valve replacement or repair, and CABG plus valve replacement or repair, and Aortic Root valve sparing procedures for people aged 15 and over.

All admission types; publicly funded (including publicly funded, provided in private)

Age is 15 years or greater; Open chest procedures only with ICD10 (version 8) codes and TAVI:

3845601	3847701	3848700	3848807	3849701	3850004	3855601	3863700
3845610	3847702	3848800	3848811	3849702	3850300	3855602	3865304
3845611	3848000	3848801	3848900	3849703	3850301	3855603	3865305
3845615	3848001	3848808	3848901	3849704	3850302	3856200	3865306
3845616	3848002	3848802	3848902	3849705	3850303	3856201	3865307
3845617	3848100	3848803	3848903	3849706	3850304	3856202	3850005
3845618	3848101	3848809	3848904	3849707	3855300	3856203	9020100
3847500	3848102	3848804	3848905	3850000	3855301	3856500	3850305
3847501	3848300	3848805	3849000	3850001	3855302	3856501	9020101
3847502	3848500	3848810	3849300	3850002	3855303	3856502	9020102
3847700	3848501	3848806	3849700	3850003	3855600	3856503	9020103

Aortic Root valve sparing procedures

3855000 Repair of ascending thoracic aorta

3855001 Replacement of ascending thoracic aorta

3855900 Repair of aortic arch and ascending thoracic aorta

3855901 Replacement of aortic arch and ascending thoracic aorta

Tanscatheter Aortic Valve Implantation (TAVI)

The TAVI code is included in the above list:

3848808 Percutaneous replacement of aortic valve with bioprosthetic

If you have any questions please contact:

Rachel Pearce

Senior Advisor - Funding and Monitoring

Electives and National Services

Service Commissioning

DDI: 04 816 2119

Mobile: 021 538 342

Please find attached the latest weekly report from ACH CTSU. In the last week, the service has delivered 21 eligible procedures against a plan of 25.

As of 28/01/19:

- There are 9 P1 patients, longest waiting 12 days, planned for 29/01/19
- There are 10 lung cancer patients, longest waiting 20 days, planned for week of 04/02/19
- The longest waiting P2 patient is at 125 days, planned for week of 04/02/19
- The longest waiting P3 patient is at 131 days, planned for week of 04/02/19

The waiting list decreased from 112 to 104 patients over this period.

In this week, the service completed 13 acute and 8 elective eligible bypasses, 3 non-Northern Region bypasses, 1 other cardiac, 16 non-bypass, 1 heart transplant, 2 TAVI, and 42 procedures in total. There were 3 cancellations in this period: 1x Patient unfit, 2x Anaesthetist not available (overnight acute).

Week Ending	Northern	All Pt's - bypass procedures	Non bypass and cardiac other eligible						Total CTSU procedural throughput	Northern bypass eligible %	Non Eligible%
			ECMO	Other Cardiac	Thoracic	Transplant	TAVI (eligible)	Total			
30/12/2018	8	10	1	1	2	0	0	4	14	57%	43%
06/01/2019	11	11	0	1	13	0	0	14	25	44%	56%
13/01/2019	16	18	1	0	10	3	0	14	32	50%	50%
20/01/2019	20	21	1	3	15	1	1	21	41	51%	49%
27/01/2019	21	24	0	1	16	1	2	20	42	55%	45%

- The following table shows the breakdown of completed eligible operations over the period of 21/01/19 – 27/01/19. Note that patients are brought forward on the basis of clinical priority so the DHB spread of these patients will depend on how many P1 patients are presenting for surgery regardless of DHB of domicile.

Row Labels	Count of NHI	Column Labels				Grand Total
		Auckland	Counties Manukau	Northland	Waitemata	
P1		3	3		7	13
Aorta including aortic root with or without AV Surgery		1	1			2
AV Surgery					3	3
Isolated CABG		2	2		2	6
Valve(s) + CABG					2	2
P2		1	3		2	6
Aorta including aortic root with or without AV Surgery			1			1
AV Surgery		1	1		2	4
Isolated CABG			1			1
P3				1	1	2
Aorta including aortic root with or without AV Surgery				1		1
MV Surgery					1	1
Grand Total		4	6	1	10	21

- The following table shows the breakdown of the WL as of **28/01/2019**. As noted above the size of the total waiting list for each DHB is not comparative as it depends on the makeup of the waiting list in terms of P1, P2 and P3 patients. P1 patients will always get treated first due to clinical prioritisation.

Count of NHI Row Labels	Column Labels					Grand Total
	Auckland	Counties Manukau	Northland	Waitemata		
P1	2	3	3	1		9
AV Surgery		1				1
Double valves		1				1
Isolated CABG	2	1	2			5
MV Surgery			1	1		2
P2	17	19	14	15		65
Aorta including aortic root with or without AV Surgery	1	4	2	1		8
AV Surgery	4	3	2	6		15
Double valves	1	2		1		4
Isolated CABG	4	6	4	2		16
MV Surgery	4	2	4	1		11
Valve(s) + CABG	3	2	2	4		11
P3	8	6	4	12		30
Aorta including aortic root with or without AV Surgery		1		2		3
AV Surgery		1		3		4
Double valves		1				1
Isolated CABG	6	2	2	5		15
MV Surgery	2	1	2	1		6
Valve(s) + CABG				1		1
Grand Total	27	28	21	28		104

Patients Waiting Longer than 90 days

PERIOD		Number of Patients	Reason(s)	Treatment plan (Schedule date/ or progress update)
Week No.	Week ending			
1	1 Jul 18	0		
2	8 Jul 18	0		
3	15 Jul 18	0		
4	22 Jul 18	0		
5	29 Jul 18	0		
6	5 Aug 18	0		
7	12 Aug 18	0		
8	19 Aug 18	0		
9	26 Aug 18	0		
10	2 Sep 18	0		
11	9 Sep 18	0		
12	16 Sep 18	0		
13	23 Sep 18	0		
14	30 Sep 18	0		
15	7 Oct 18	0		
16	14 Oct 18	1	Patient cancelled twice due to transplant and acute case	Patient has received treatment as a weekend contract case
17	21 Oct 18	1	Patient cancelled due to more acute case	Patient has received treatment
18	28 Oct 18	1	Delayed due to high acute and P1 demand	Patient has received treatment as an outsourced case to private provider
19	4 Nov 18	0		
20	11 Nov 18	0		
21	18 Nov 18	0		
22	25 Nov 18	0		
23	2 Dec 18	0		
24	9 Dec 18	0		
25	16 Dec 18	0		
26	23 Dec 18	0		
27	30 Dec 18	0		
28	6 Jan 19	2	Cancelled from 13/12/18 & 15/12/18 due to CVICU beds	Planned for the end of week ending 13/01/19, possibly as a contract case
29	13 Jan 19	3	Cancellations and patient availability, plus acute load	1x Patient has received treatment. 2x planned (17/01/19 and 22/01/19)
30	20 Jan 19	6	High patient load (high inflows in September + 120 days) 1x Patient availability (Cook Islands patient).	3x Patients have received treatment. 2x planned (24/01/19). 1x planned for week of 04/02/19.
31	27 Jan 19	4	High patient load (high inflows in September + 120 days) 1x Patient availability (Cook Islands patient).	1x Patient planned for week of 28/01/19. 3x planned for week of 04/02/19. (Includes Cook Islands patient).
32	3 Feb 19	0		
33	10 Feb 19	0		
34	17 Feb 19	0		
35	24 Feb 19	0		
36	3 Mar 19	0		
37	10 Mar 19	0		
38	17 Mar 19	0		
39	24 Mar 19	0		
40	31 Mar 19	0		
41	7 Apr 19	0		
42	14 Apr 19	0		
43	21 Apr 19	0		
44	28 Apr 19	0		
45	5 May 19	0		
46	12 May 19	0		
47	19 May 19	0		
48	26 May 19	0		
49	2 Jun 19	0		
50	9 Jun 19	0		
51	16 Jun 19	0		
52	23 Jun 19	0		
53	30 Jun 19	0		

Please find attached the latest weekly report from ACH CTSU. In the last week, the service has delivered 21 eligible procedures against a plan of 25.

As of 25/02/19:

- There are 14 P1 patients, longest waiting 7 days, planned for 26/02/19
- There are 12 lung cancer patients, longest waiting 14 days, planned for 26/02/19
- The longest waiting P2 patient is at 122 days, planned for 02/03/19
- The longest waiting P3 patient is at 125 days, planned for 02/03/19

The waiting list increased from 92 to 96 patients over this period.

In this week, the service completed 16 acute and 5 elective eligible bypasses, 1 non-Northern Region bypass, 3 ECMO, 3 other cardiac, 18 non-bypass, 1 lung transplant, 1 TAVI, and 47 procedures in total. There were 4 cancellations in this period: 1x Anaesthetic tech unavailable, 1x Perfusionist and OR Nursing unavailable, 1x Substitution by Acute, 1x Anaesthetist not available.

Week Ending	Northern	All Pt's - bypass procedures	Non bypass and cardiac other eligible						Total CTSU procedural throughput	Northern bypass eligible %	Non Eligible%
			ECMO	Other Cardiac	Thoracic	Transplant	TAVI (eligible)	Total			
27/01/2019	21	24	0	1	16	1	2	20	42	55%	45%
03/02/2019	17	17	0	4	9	2	2	17	32	59%	41%
10/02/2019	23	25	0	1	10	1	2	14	37	68%	32%
17/02/2019	25	26	2	2	11	2	3	20	43	65%	35%
24/02/2019	21	22	3	3	18	1	1	26	47	47%	53%

- The following table shows the breakdown of completed eligible operations over the period of 18/02/19 – 24/02/19. Note that patients are brought forward on the basis of clinical priority so the DHB spread of these patients will depend on how many P1 patients are presenting for surgery regardless of DHB of domicile.

Row Labels	Count of NHI	Column Labels				Grand Total
		Auckland	Counties Manukau	Northland	Waitemata	
P1		6	6		4	16
Aorta including aortic root with or without AV Surgery			1			1
AV Surgery		1			2	3
Isolated CABG		4	4		2	10
MV Surgery		1				1
Valve(s) + CABG			1			1
P2			1	2		3
Isolated CABG			1	2		3
P3		1	1			2
Aorta including aortic root with or without AV Surgery			1			1
Isolated CABG		1				1
Grand Total		7	8	2	4	21

- The following table shows the breakdown of the WL as of **25/02/2019**. As noted above the size of the total waiting list for each DHB is not comparative as it depends on the makeup of the waiting list in terms of P1, P2 and P3 patients. P1 patients will always get treated first due to clinical prioritisation.

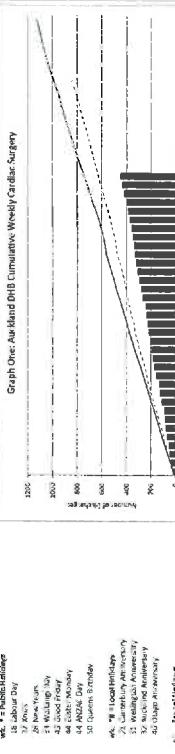
Count of NHI Row Labels	Column Labels				Grand Total
	Auckland	Counties Manukau	Northland	Waitemata	
P1	1	5	4	4	14
Aorta including aortic root with or without AV Surgery		3			3
AV Surgery			1	1	2
Isolated CABG	1	2	2	3	8
MV Surgery			1		1
P2	17	21	8	12	58
Aorta including aortic root with or without AV Surgery	1	5	2	1	9
AV Surgery	5	4	2	5	16
Double valves	2	4	1	1	8
Isolated CABG	3	5	1	2	11
MV Surgery	3	1	2	1	7
Valve(s) + CABG	3	2		2	7
P3	8	3	3	10	24
Aorta including aortic root with or without AV Surgery				2	2
AV Surgery	1	1		2	4
Isolated CABG	5	1	1	3	10
MV Surgery	2	1	2	1	6
Valve(s) + CABG				2	2
Grand Total	26	29	15	26	96

Auckland DHB

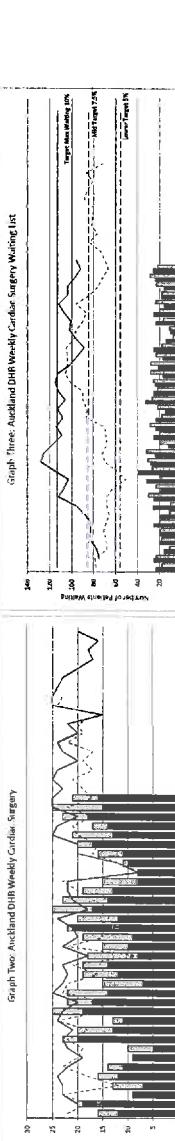
Week Ending:
26 Dec 19

PERIOD Week No.	INFLOW		OUTFLOW			PLAN			ACTUAL DELIVERY		
	Week-Ending Planned Admits	Actual Admits	Total Planned Discharge	Actual Discharge	Planned Transfers to other hospitals	Actual Transfers to other hospitals	Planned Discharge from other hospitals	Actual Discharge from other hospitals	Other Patient Flow	Total Patient Flow	Acute Efficiency
1	24 Nov 18	18	17	21	14	2	18	16	10	12	56%
2	3 Nov 18	15	17	18	16	3	13	15	12	14	56%
3	16 Nov 18	20	18	20	18	3	11	23	19	1	56%
4	2 Nov 18	14	15	16	15	5	9	10	6	0	56%
5	24 Oct 18	17	15	17	15	3	16	16	17	2	56%
6	5 Nov 18	18	21	18	15	3	16	12	10	6	56%
7	12 Aug 18	21	19	19	19	3	20	19	21	1	55%
8	26 Aug 18	19	19	19	19	2	11	19	9	10	55%
9	9 Sep 18	14	14	15	15	2	10	12	11	3	55%
10	23 Sep 18	15	15	15	15	3	11	15	15	1	55%
11	9 Oct 18	12	14	13	13	6	9	12	11	2	55%
12	23 Oct 18	19	19	19	19	2	10	19	11	7	55%
13	6 Nov 18	20	19	19	19	2	10	19	19	1	55%
14	20 Nov 18	19	19	19	19	2	10	19	19	1	55%
15	4 Dec 18	16	17	17	17	2	9	17	17	1	55%
16	18 Dec 18	21	21	21	21	8	20	21	21	2	55%
17	4 Jan 19	16	16	15	15	7	9	19	17	2	55%
*	18	21 Dec 18	14	15	15	15	2	10	14	5	55%
*	19	7 Jan 19	15	15	15	15	2	10	15	5	55%
*	20	11 Jan 19	15	15	15	15	2	10	15	5	55%
*	21	18 Feb 19	23	16	17	17	8	17	20	2	55%
*	22	4 Mar 19	15	14	15	15	2	12	15	9	55%
*	23	18 Mar 19	14	14	14	14	6	14	14	12	55%
*	24	2 Apr 19	16	16	16	16	2	12	16	14	55%
*	25	16 Apr 19	15	16	15	16	2	13	16	15	55%
*	26	22 Apr 19	21	15	25	19	3	20	22	7	55%
*	27	4 May 19	17	17	17	17	2	14	17	7	55%
*	28	11 May 19	15	15	15	15	2	10	15	7	55%
*	29	18 May 19	14	15	15	14	2	10	15	7	55%
*	30	1 June 19	16	16	16	16	1	17	16	7	55%
*	31	7 June 19	23	15	15	15	2	16	23	13	55%
*	32	14 June 19	15	16	15	16	2	12	14	6	55%
*	33	21 June 19	14	14	15	14	2	10	14	6	55%
*	34	4 July 19	15	15	15	15	2	10	15	6	55%
*	35	11 July 19	21	20	20	21	1	22	21	12	55%
*	36	18 July 19	15	15	15	15	1	20	15	7	55%
*	37	4 Aug 19	14	14	14	14	2	10	14	6	55%
*	38	11 Aug 19	15	15	15	15	2	10	15	6	55%
*	39	18 Aug 19	16	16	16	16	1	17	16	6	55%
*	40	4 Sept 19	15	15	15	15	2	10	15	6	55%
*	41	11 Sept 19	14	14	14	14	2	10	14	6	55%
*	42	18 Sept 19	14	14	14	14	1	17	14	6	55%
*	43	4 Oct 19	15	15	15	15	2	10	15	6	55%
*	44	11 Oct 19	15	15	15	15	2	10	15	6	55%
*	45	18 Oct 19	16	16	16	16	1	17	16	6	55%
*	46	4 Nov 19	15	15	15	15	2	10	15	6	55%
*	47	11 Nov 19	15	15	15	15	2	10	15	6	55%
*	48	18 Nov 19	16	16	16	16	1	17	16	6	55%
*	49	4 Dec 19	15	15	15	15	2	10	15	6	55%
*	50	11 Dec 19	15	15	15	15	2	10	15	6	55%
*	51	18 Dec 19	16	16	16	16	1	17	16	6	55%
*	52	4 Jan 20	15	15	15	15	2	10	15	6	55%
*	53	11 Jan 20	15	15	15	15	2	10	15	6	55%
*	54	18 Jan 20	16	16	16	16	1	17	16	6	55%
*	55	4 Feb 20	15	15	15	15	2	10	15	6	55%

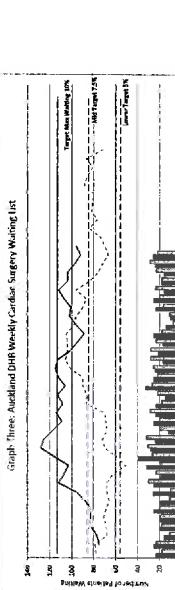
KEY: * indicates Discharge from hospital to another hospital (e.g., Private Hospital), or to another DHB.



Graph One: Auckland DHB Cumulative Weekly Cardiac Surgery



Graph Two: Auckland DHB Weekly Cardiac Surgery



Graph Three: Auckland DHB Weekly Cardiac Surgery Waitlist

Patients Waiting Longer than 90 days

PERIOD		Number of Patients	Reason(s)	Treatment plan (Schedule date/ or progress update)
Week No.	Week ending			
1	1 Jul 18	0		
2	8 Jul 18	0		
3	15 Jul 18	0		
4	22 Jul 18	0		
5	29 Jul 18	0		
6	5 Aug 18	0		
7	12 Aug 18	0		
8	19 Aug 18	0		
9	26 Aug 18	0		
10	2 Sep 18	0		
11	9 Sep 18	0		
12	16 Sep 18	0		
13	23 Sep 18	0		
14	30 Sep 18	0		
15	7 Oct 18	0		
16	14 Oct 18	1	Patient cancelled twice due to transplant and acute case	Patient has received treatment as a weekend contract case
17	21 Oct 18	1	Patient cancelled due to more acute case	Patient has received treatment
18	28 Oct 18	1	Delayed due to high acute and P1 demand	Patient has received treatment as an outsourced case to private provider
19	4 Nov 18	0		
20	11 Nov 18	0		
21	18 Nov 18	0		
22	25 Nov 18	0		
23	2 Dec 18	0		
24	9 Dec 18	0		
25	16 Dec 18	0		
26	23 Dec 18	0		
27	30 Dec 18	0		
28	6 Jan 19	2	Cancelled from 13/12/18 & 15/12/18 due to CVICU beds	Planned for the end of week ending 13/01/19, possibly as a contract case
29	13 Jan 19	3	Cancellations and patient availability, plus acute load	1x Patient has received treatment. 2x planned (17/01/19 and 22/01/19)
30	20 Jan 19	6	High patient load (high inflows in September + 120 days) 1x Patient availability (Cook Islands patient).	3x Patients have received treatment. 2x planned (24/01/19). 1x planned for week of 04/02/19.
31	27 Jan 19	4	High patient load (high inflows in September + 120 days) 1x Patient availability (Cook Islands patient).	1x Patient planned for week of 28/01/19. 3x planned for week of 04/02/19. (Includes Cook Islands patient).
32	3 Feb 19	5	High patient load (high inflows in September + 120 days)	4x Patients planned for week of 04/02/19. 1x Patient upgraded to P1.
33	10 Feb 19	5	High patient load (high inflows in September + 120 days)	4x Patients planned for w/o 11/02/19. 1x Patient planned for w/o 18/02/19
34	17 Feb 19	2	High patient load (high inflows in September + 120 days)	Both patients have received treatment
35	24 Feb 19	2	High patient load (high inflows in September + 120 days)	Both patients are planned for 02/03/2019.
36	3 Mar 19	0		
37	10 Mar 19	0		
38	17 Mar 19	0		
39	24 Mar 19	0		
40	31 Mar 19	0		
41	7 Apr 19	0		
42	14 Apr 19	0		
43	21 Apr 19	0		
44	28 Apr 19	0		
45	5 May 19	0		
46	12 May 19	0		
47	19 May 19	0		
48	26 May 19	0		
49	2 Jun 19	0		
50	9 Jun 19	0		
51	16 Jun 19	0		
52	23 Jun 19	0		
53	30 Jun 19	0		

Please find attached the latest weekly report from ACH CTSU. In the last week, the service has delivered 21 eligible procedures against a plan of 23.

As of 01/04/19:

- There are 8 P1 patients, longest waiting 5 days, now suspended as patient requires workup
- There are 15 lung cancer patients, longest waiting 28 days, not yet planned (patient wishes to see surgeon in clinic first)
- The longest waiting P2 patient is at 119 days, not yet planned (patient to undergo review by Renal first)
- The longest waiting P3 patient is at 105 days, planned for week of 08/04/19

The waiting list decreased from 84 to 82 patients over this period.

In this week, the service completed 14 acute and 7 elective eligible bypasses, 2 ECMO, 15 non-bypass, 2 transplants (1 heart and 1 lungs), 3 TAVI and 40 procedures in total. There were 6 cancellations in this period: 1x Previous list overrun, 4x Anaesthetic tech not available (transplants + sick calls), 1x Substitution by Acute (also Perfusionist not available).

Week Ending	Northern	All Pt's - bypass procedures	Non bypass and cardiac other eligible						Total CTSU procedural throughput	Northern bypass eligible %	Non Eligible%
			ECMO	Other Cardiac	Thoracic	Transplant	TAVI (eligible)	Total			
03/03/2019	21	25	0	1	10	1	2	14	37	62%	38%
10/03/2019	21	22	1	0	15	0	2	18	38	61%	39%
17/03/2019	22	23	1	0	10	2	2	15	36	67%	33%
24/03/2019	25	26	1	0	12	2	3	18	41	68%	32%
31/03/2019	21	21	2	0	15	2	3	22	40	60%	40%

- The following table shows the breakdown of completed eligible operations over the period of 25/03/19 – 31/03/19. Note that patients are brought forward on the basis of clinical priority so the DHB spread of these patients will depend on how many P1 patients are presenting for surgery regardless of DHB of domicile.

Row Labels	Count of NHI	Column Labels			Grand Total	
		Counties	Manukau	Northland		
P1			4	3	7	14
AV Surgery				1	3	4
Double valves			1			1
Isolated CABG			3	2	4	9
P2			3	3		6
Aorta including aortic root with or without AV Surgery				1		1
Double valves			1			1
Isolated CABG			1	1		2
MV Surgery				1		1
Valve(s) + CABG			1			1
P3				1		1
MV Surgery				1		1
Grand Total			7	7	7	21

- The following table shows the breakdown of the WL as of **01/04/2019**. As noted above the size of the total waiting list for each DHB is not comparative as it depends on the makeup of the waiting list in terms of P1, P2 and P3 patients. P1 patients will always get treated first due to clinical prioritisation.

Count of NHI Row Labels	Column Labels				Grand Total	
	Auckland	Counties Manukau	Northland	Waitemata		
P1			4	2	2	8
Aorta including aortic root with or without AV Surgery				1		1
AV Surgery			2		1	3
Isolated CABG			2	1		3
Valve(s) + CABG					1	1
P2	19	13	9	14		55
Aorta including aortic root with or without AV Surgery	1	4				5
AV Surgery	7	4	3	6		20
Double valves		2	1	3		6
Isolated CABG	3	1	2	1		7
MV Surgery	5	1	2	2		10
Valve(s) + CABG	3	1	1	2		7
P3	8	3	1	7		19
Aorta including aortic root with or without AV Surgery			1		1	2
AV Surgery	1				1	2
Double valves	1					1
Isolated CABG	5	1			2	8
MV Surgery	1	1	1	1		4
Valve(s) + CABG					2	2
Grand Total	27	20	12	23		82

Patients Waiting Longer than 90 days

PERIOD		Number of Patients	Reason(s)	Treatment plan (Schedule date/ or progress update)
Week No.	Week ending			
1	1 Jul 18	0		
2	8 Jul 18	0		
3	15 Jul 18	0		
4	22 Jul 18	0		
5	29 Jul 18	0		
6	5 Aug 18	0		
7	12 Aug 18	0		
8	19 Aug 18	0		
9	26 Aug 18	0		
10	2 Sep 18	0		
11	9 Sep 18	0		
12	16 Sep 18	0		
13	23 Sep 18	0		
14	30 Sep 18	0		
15	7 Oct 18	0		
16	14 Oct 18	1	Patient cancelled twice due to transplant and acute case	Patient has received treatment as a weekend contract case
17	21 Oct 18	1	Patient cancelled due to more acute case	Patient has received treatment
18	28 Oct 18	1	Delayed due to high acute and P1 demand	Patient has received treatment as an outsourced case to private provider
19	4 Nov 18	0		
20	11 Nov 18	0		
21	18 Nov 18	0		
22	25 Nov 18	0		
23	2 Dec 18	0		
24	9 Dec 18	0		
25	16 Dec 18	0		
26	23 Dec 18	0		
27	30 Dec 18	0		
28	6 Jan 19	2	Cancelled from 13/12/18 & 15/12/18 due to CVICU beds	Planned for the end of week ending 13/01/19, possibly as a contract case
29	13 Jan 19	3	Cancellations and patient availability, plus acute load	1x Patient has received treatment. 2x planned (17/01/19 and 22/01/19)
30	20 Jan 19	6	High patient load (high inflows in September + 120 days)	3x Patients have received treatment. 2x planned (24/01/19).
31	27 Jan 19	4	1x Patient availability (Cook Islands patient). High patient load (high inflows in September + 120 days) 1x Patient availability (Cook Islands patient).	1x planned for week of 04/02/19. 1x Patient planned for week of 28/01/19. 3x planned for week of 04/02/19. (Includes Cook Islands patient).
32	3 Feb 19	5	High patient load (high inflows in September + 120 days)	4x Patients planned for week of 04/02/19. 1x Patient upgraded to P1.
33	10 Feb 19	5	High patient load (high inflows in September + 120 days)	4x Patients planned for w/o 11/02/19. 1x Patient planned for w/o 18/02/19
34	17 Feb 19	2	High patient load (high inflows in September + 120 days)	Both patients have received treatment
35	24 Feb 19	2	High patient load (high inflows in September + 120 days)	Both patients are planned for 02/03/2019.
36	3 Mar 19	5	High acute inflows delaying elective cases	2x Op complete, 1x Patients planned for 08/03/19, 2x Patients planned for w/o 11/03/19
37	10 Mar 19	2	High acute inflows delaying elective cases	1x Op complete. 1x Patient planned for week of 11/03/19
38	17 Mar 19	5	High acute inflows delaying elective cases	2x Op complete, 3x Patients planned for week of 18/03/19
39	24 Mar 19	2	High acute inflows delaying elective cases	2x Op complete
40	31 Mar 19	0		
41	7 Apr 19	0		
42	14 Apr 19	0		
43	21 Apr 19	0		
44	28 Apr 19	0		
45	5 May 19	0		
46	12 May 19	0		
47	19 May 19	0		
48	26 May 19	0		
49	2 Jun 19	0		
50	9 Jun 19	0		
51	16 Jun 19	0		
52	23 Jun 19	0		
53	30 Jun 19	0		

Please find attached the latest weekly report from ACH CTSU. In the last week, the service has delivered 25 eligible procedures against a plan of 20.

As of 15/04/19:

- There are 5 P1 patients, longest waiting 10 days, planned for 16/04/19
- There are 11 lung cancer patients, longest waiting 27 days, planned for 17/04/19
- The longest waiting P2 patient is at 133 days, suspended as not fit
- The longest waiting P3 patient is at 102 days, planned for 18/04/19

The waiting list decreased from 82 to 81 patients over this period.

In this week, the service completed 13 acute and 12 elective eligible bypasses, 1 non-Northern Region bypasses, 4 ECMO, 15 non-bypass, 2 TAVI , 1 TAVI (non-eligible) and 45 procedures in total. There was 1 cancellation in this period: 1x Anaesthetic tech unavailable.

Week Ending	Northern	All Pt's - bypass procedures	Non bypass and cardiac other eligible						Total CTSU procedural throughput	Northern bypass eligible %	Non Eligible%
			ECMO	Other Cardiac	Thoracic	Transplant	TAVI (eligible)	Total			
17/03/2019	22	23	1	0	10	2	2	15	36	67%	33%
24/03/2019	25	26	1	0	12	2	3	18	41	68%	32%
31/03/2019	21	21	2	0	15	2	3	22	40	60%	40%
07/04/2019	21	23	2	2	18	0	4	26	45	56%	44%
14/04/2019	25	26	4	0	15	0	2	21	45	60%	40%

- The following table shows the breakdown of completed eligible operations over the period of 08/04/19 – 14/04/19. Note that patients are brought forward on the basis of clinical priority so the DHB spread of these patients will depend on how many P1 patients are presenting for surgery regardless of DHB of domicile.

Row Labels	Count of NHI	Column Labels				Grand Total
		Auckland	Counties Manukau	Northland	Waitemata	
P1		3	3	4	3	13
AV Surgery		1			1	2
Isolated CABG		1	3	2	2	8
Valve(s) + CABG		1		2		3
P2		3	1	1	2	7
Aorta including aortic root with or without AV Surgery			1			1
AV Surgery		2		1	1	4
Isolated CABG		1			1	2
P3		2	2		1	5
Aorta including aortic root with or without AV Surgery					1	1
Double valves			1			1
Isolated CABG		2				2
MV Surgery			1			1
Grand Total		8	6	5	6	25

- The following table shows the breakdown of the WL as of **15/04/2019**. As noted above the size of the total waiting list for each DHB is not comparative as it depends on the makeup of the waiting list in terms of P1, P2 and P3 patients. P1 patients will always get treated first due to clinical prioritisation.

Row Labels	Column Labels				Grand Total
		Auckland	Counties Manukau	Northland	
P1				2	5
Aorta including aortic root with or without AV Surgery					1
Double valves			2		2
Isolated CABG					1
MV Surgery				1	1
P2	22	12	8	19	61
Aorta including aortic root with or without AV Surgery	3	5		2	10
AV Surgery	10	3	2	7	22
Double valves		2	1	3	6
Isolated CABG	2		2	1	5
MV Surgery	5	2	2	4	13
Valve(s) + CABG	2		1	2	5
P3	6	3		6	15
Aorta including aortic root with or without AV Surgery			1		1
AV Surgery	1			1	2
Double valves	1				1
Isolated CABG	3		2		7
MV Surgery	1			1	2
Valve(s) + CABG				2	2
Grand Total	28	17	9	27	81

Patients Waiting Longer than 90 days

PERIOD		Number of Patients	Reason(s)	Treatment plan (Schedule date/ or progress update)
Week No.	Week ending			
1	1 Jul 18	0		
2	8 Jul 18	0		
3	15 Jul 18	0		
4	22 Jul 18	0		
5	29 Jul 18	0		
6	5 Aug 18	0		
7	12 Aug 18	0		
8	19 Aug 18	0		
9	26 Aug 18	0		
10	2 Sep 18	0		
11	9 Sep 18	0		
12	16 Sep 18	0		
13	23 Sep 18	0		
14	30 Sep 18	0		
15	7 Oct 18	0		
16	14 Oct 18	1	Patient cancelled twice due to transplant and acute case	Patient has received treatment as a weekend contract case
17	21 Oct 18	1	Patient cancelled due to more acute case	Patient has received treatment
18	28 Oct 18	1	Delayed due to high acute and P1 demand	Patient has received treatment as an outsourced case to private provider
19	4 Nov 18	0		
20	11 Nov 18	0		
21	18 Nov 18	0		
22	25 Nov 18	0		
23	2 Dec 18	0		
24	9 Dec 18	0		
25	16 Dec 18	0		
26	23 Dec 18	0		
27	30 Dec 18	0		
28	6 Jan 19	2	Cancelled from 13/12/18 & 15/12/18 due to CVICU beds	Planned for the end of week ending 13/01/19, possibly as a contract case
29	13 Jan 19	3	Cancellations and patient availability, plus acute load	1x Patient has received treatment. 2x planned (17/01/19 and 22/01/19)
30	20 Jan 19	6	High patient load (high inflows in September + 120 days)	3x Patients have received treatment. 2x planned (24/01/19).
31	27 Jan 19	4	1x Patient availability (Cook Islands patient). High patient load (high inflows in September + 120 days) 4x Patient availability (Cook Islands patient).	1x planned for week of 04/02/19. 1x Patient planned for week of 28/01/19. 3x planned for week of 04/02/19. (Includes Cook Islands patient).
32	3 Feb 19	5	High patient load (high inflows in September + 120 days)	4x Patients planned for week of 04/02/19. 1x Patient upgraded to P1.
33	10 Feb 19	5	High patient load (high inflows in September + 120 days)	4x Patients planned for w/o 11/02/19. 1x Patient planned for w/o 18/02/19
34	17 Feb 19	2	High patient load (high inflows in September + 120 days)	Both patients have received treatment
35	24 Feb 19	2	High patient load (high inflows in September + 120 days)	Both patients are planned for 02/03/2019.
36	3 Mar 19	5	High acute inflows delaying elective cases	2x Op complete, 1x Patients planned for 08/03/19, 2x Patients planned for w/o 11/03/19
37	10 Mar 19	2	High acute inflows delaying elective cases	1x Op complete. 1x Patient planned for week of 11/03/19
38	17 Mar 19	5	High acute inflows delaying elective cases	2x Op complete, 3x Patients planned for week of 18/03/19
39	24 Mar 19	2	High acute inflows delaying elective cases	2x Op complete
40	31 Mar 19	0		
41	7 Apr 19	1	Awaiting confirmation if patient fit to proceed	Book or suspend as appropriate once confirmed by cardiologist
42	14 Apr 19	1	Awaiting confirmation if patient fit to proceed	Patient suspended
43	21 Apr 19	0		
44	28 Apr 19	0		
45	5 May 19	0		
46	12 May 19	0		
47	19 May 19	0		
48	26 May 19	0		
49	2 Jun 19	0		
50	9 Jun 19	0		
51	16 Jun 19	0		
52	23 Jun 19	0		
53	30 Jun 19	0		

Please find attached the latest weekly report from ACH CTSU. In the last week, the service has delivered 24 eligible procedures against a plan of 25.

As of 06/05/19:

- There are 7 P1 patients, longest waiting 10 days, now op complete
- There are 9 lung cancer patients, longest waiting 39 days, now op complete
- The longest waiting P2 patient is at 119 days, now suspended as patient is not available
- The longest waiting P3 patient is at 118 days, planned for 08/05/19

The waiting list remained at 80 patients over this period.

In this week, the service completed 17 acute and 7 elective eligible bypasses, 3 non-Northern Region bypasses, 3 ECMO, 16 non-bypass, 4 TAVI and 46 procedures in total. There were 3 cancellations in this period: 2x Previous list overrun, 1x Anaesthetist not available.

Week Ending	Northern	All Pt's - bypass procedures	Non bypass and cardiac other eligible						Total CTSU procedural throughput	Northern bypass eligible %	Non Eligible%
			ECMO	Other Cardiac	Thoracic	Transplant	TAVI (eligible)	Total			
07/04/2019	21	23	2	2	18	0	4	26	45	56%	44%
14/04/2019	25	26	4	0	15	0	2	21	45	60%	40%
21/04/2019	14	16	4	1	11	2	2	20	34	47%	53%
28/04/2019	11	11	1	2	10	0	2	15	24	54%	46%
05/05/2019	24	27	3	0	16	0	4	23	46	61%	39%

- The following table shows the breakdown of completed eligible operations over the period of 29/04/19 – 05/05/19. Note that patients are brought forward on the basis of clinical priority so the DHB spread of these patients will depend on how many P1 patients are presenting for surgery regardless of DHB of domicile.

Row Labels	Column Labels		Counties Manukau	Northland	Waitemata	Grand Total
	Auckland					
P1		5	5	2	5	17
Aortic Root Replace			1			1
AV Surgery	3		1		2	6
Double valves	1		2			3
Isolated CABG	1		1	2	1	5
MV Surgery					1	1
Valve(s) + CABG					1	1
P2	4		2			6
AV Surgery	1		1			2
Double valves	1		1			2
MV Surgery	1					1
TV Surgery	1					1
P3					1	1
AV Surgery					1	1
Grand Total	9		7	2	6	24

- The following table shows the breakdown of the WL as of **06/05/2019**. As noted above the size of the total waiting list for each DHB is not comparative as it depends on the makeup of the waiting list in terms of P1, P2 and P3 patients. P1 patients will always get treated first due to clinical prioritisation.

Count of NHI Row Labels	Column Labels				Grand Total	
	Auckland	Counties Manukau	Northland	Waitemata		
P1			4	1	2	7
AV Surgery		1	1		2	
Double valves		1			1	
Isolated CABG		2		1	3	
Valve(s) + CABG				1	1	
P2	18	12	6	21	57	
Aorta including aortic root with or without AV Surgery	2	5		1	8	
AV Surgery	8	3	1	6	18	
Double valves		1	1	3	5	
Isolated CABG	1	1	1	1	4	
MV Surgery	3	1	2	5	11	
Valve(s) + CABG	4	1	1	5	11	
P3	6	4	1	5	16	
Aorta including aortic root with or without AV Surgery		1			1	
AV Surgery	1				1	
Double valves	1				1	
Isolated CABG	2	3	1	3	9	
MV Surgery	2			1	3	
Valve(s) + CABG				1	1	
Grand Total	24	20	8	28	80	

Patients Waiting Longer than 90 days

PERIOD		Number of Patients	Reason(s)	Treatment plan (Schedule date/ or progress update)
Week No.	Week ending			
1	1 Jul 18	0		
2	8 Jul 18	0		
3	15 Jul 18	0		
4	22 Jul 18	0		
5	29 Jul 18	0		
6	5 Aug 18	0		
7	12 Aug 18	0		
8	19 Aug 18	0		
9	26 Aug 18	0		
10	2 Sep 18	0		
11	9 Sep 18	0		
12	16 Sep 18	0		
13	23 Sep 18	0		
14	30 Sep 18	0		
15	7 Oct 18	0		
16	14 Oct 18	1	Patient cancelled twice due to transplant and acute case	Patient has received treatment as a weekend contract case
17	21 Oct 18	1	Patient cancelled due to more acute case	Patient has received treatment
18	28 Oct 18	1	Delayed due to high acute and P1 demand	Patient has received treatment as an outsourced case to private provider
19	4 Nov 18	0		
20	11 Nov 18	0		
21	18 Nov 18	0		
22	25 Nov 18	0		
23	2 Dec 18	0		
24	9 Dec 18	0		
25	16 Dec 18	0		
26	23 Dec 18	0		
27	30 Dec 18	0		
28	6 Jan 19	2	Cancelled from 13/12/18 & 15/12/18 due to CVICU beds	Planned for the end of week ending 13/01/19, possibly as a contract case
29	13 Jan 19	3	Cancellations and patient availability, plus acute load	1x Patient has received treatment, 2x planned (17/01/19 and 22/01/19)
30	20 Jan 19	6	High patient load (high inflows in September + 120 days); 1x Patient availability (Cook Islands patient).	3x Patients have received treatment, 2x planned (24/01/19).
31	27 Jan 19	4	High patient load (high inflows in September + 120 days); 1x Patient availability (Cook Islands patient).	1x planned for week of 04/02/19. 1x Patient planned for week of 28/01/19. 3x planned for week of 04/02/19 (Includes Cook Islands patient).
32	3 Feb 19	5	High patient load (high inflows in September + 120 days);	4x Patients planned for week of 04/02/19. 1x Patient upgraded to P1.
33	10 Feb 19	5	High patient load (high inflows in September + 120 days);	4x Patients planned for w/o 11/02/19. 1x Patient planned for w/o 18/02/19
34	17 Feb 19	2	High patient load (high inflows in September + 120 days);	Both patients have received treatment
35	24 Feb 19	2	High patient load (high inflows in September + 120 days);	Both patients are planned for 02/03/2019.
36	3 Mar 19	5	High acute inflows delaying elective cases	2x Op complete, 1x Patients planned for 08/03/19, 2x Patients planned for w/o 11/03/15
37	10 Mar 19	2	High acute inflows delaying elective cases	1x Op complete. 1x Patient planned for week of 11/03/19
38	17 Mar 19	5	High acute inflows delaying elective cases	2x Op complete, 3x Patients planned for week of 18/03/19
39	24 Mar 19	2	High acute inflows delaying elective cases	2x Op complete
40	31 Mar 19	0		
41	7 Apr 19	1	Awaiting confirmation if patient fit to proceed	Book or suspend as appropriate once confirmed by cardiologist!
42	14 Apr 19	1	Awaiting confirmation if patient fit to proceed	Patient suspended
43	21 Apr 19	0		
44	28 Apr 19	1	Patient cancelled from earlier booking due to Anaesthetic Tech shortage	Patient has received treatment
45	5 May 19	0		
46	12 May 19	0		
47	19 May 19	0		
48	26 May 19	0		
49	2 Jun 19	0		
50	9 Jun 19	0		
51	16 Jun 19	0		
52	23 Jun 19	0		
53	30 Jun 19	0		

Please find attached the latest weekly report from ACH CTSU. In the last week, the service has delivered 21 eligible procedures against a plan of 20.

As of 03/06/19:

- There are 10 P1 patients, longest waiting 6 days, planned for 05/06/19
- There are 10 lung cancer patients, longest waiting 27 days, now suspended at patient request
- The longest waiting P2 patient is at 103 days, planned for week of 10/06/19
- The longest waiting P3 patient is at 97 days, not yet planned (pending dental check)

The waiting list increased from 74 to 76 patients over this period.

In this period, 3 patients were suspended or removed from the waiting list: 2x Patient not available, 1x no longer for surgery (palliative)

In this week, the service completed 16 acute and 5 elective eligible bypasses, 1 non-Northern Region bypass, 2 ECMO, 13 non-bypass, 2 TAVI, and 37 procedures in total. There were 5 cancellations in this period: 2x ICU staff not available, 2x Previous list overrun, 1x Surgeon + Perfusionist not available (overnight acute).

Week Ending	Northern	All Pt's - bypass procedures	Non bypass and cardiac other eligible						Total CTSU procedural throughput	Northern bypass eligible %	Non Eligible%
			ECMO	Other Cardiac	Thoracic	Transplant	TAVI (eligible)	Total			
05/05/2019	24	27	3	0	16	0	4	23	46	61%	39%
12/05/2019	23	24	3	1	16	0	2	22	44	57%	43%
19/05/2019	22	23	3	0	16	2	2	23	44	55%	45%
26/05/2019	23	24	4	0	12	0	2	18	40	63%	38%
02/06/2019	21	22	2	0	13	0	2	17	37	62%	38%

- The following table shows the breakdown of completed eligible operations over the period of 27/05/19 – 02/06/19. Note that patients are brought forward on the basis of clinical priority so the DHB spread of these patients will depend on how many P1 patients are presenting for surgery regardless of DHB of domicile.

Row Labels	Count of NHI	Column Labels				Grand Total
		Auckland	Counties Manukau	Northland	Waitemata	
P1		5	4	2	5	16
Aorta including aortic root with or without AV Surgery		1	1	1	3	6
AVReplace + CABG			1		1	2
Isolated CABG		4	2	1	1	8
P2				2		2
Aorta including aortic root with or without AV Surgery				1		1
MV Surgery				1		1
P3		2		1		3
Aorta including aortic root with or without AV Surgery		1				1
MV Surgery		1		1		2
Grand Total		7	4	5	5	21

- The following table shows the breakdown of the WL as of **27/05/2019**. As noted above the size of the total waiting list for each DHB is not comparative as it depends on the makeup of the waiting list in terms of P1, P2 and P3 patients. P1 patients will always get treated first due to clinical prioritisation.

Row Labels	Column Labels				Grand Total
	Auckland	Counties Manukau	Northland	Waitemata	
P1	2	2		6	10
AV Surgery				4	4
Double valves		1			1
Isolated CABG	2	1		1	4
MV Surgery				1	1
P2	18	15	7	13	53
Aorta including aortic root with or without AV Surgery	4	5		1	10
AV Surgery	6	6	3	4	19
Double valves		1		1	2
Isolated CABG	1	1		1	3
MV Surgery	4	1	3	3	11
Valve(s) + CABG	3	1	1	3	8
P3	4	3	1	5	13
Aorta including aortic root with or without AV Surgery			1		1
AV Surgery				1	1
Double valves				1	1
Isolated CABG	3	1	1	3	8
MV Surgery	1	1			2
Grand Total	24	20	8	24	76

Patients Waiting Longer than 90 and 120 days

PERIOD Week No.	Week ending	Number of Patients	Reason(s)	Treatment plan (Schedule date/ or progress update)
1	1 Jul 18	0		
2	8 Jul 18	0		
3	15 Jul 18	0		
4	22 Jul 18	0		
5	29 Jul 18	0		
6	5 Aug 18	0		
7	12 Aug 18	0		
8	19 Aug 18	0		
9	26 Aug 18	0		
10	2 Sep 18	0		
11	9 Sep 18	0		
12	16 Sep 18	0		
13	23 Sep 18	0		
14	30 Sep 18	0		
15	7 Oct 18	0		
16	14 Oct 18	1	Patient cancelled twice due to transplant and acute case	Patient has received treatment as a weekend contract case
17	21 Oct 18	1	Patient cancelled due to more acute case	Patient has received treatment
18	28 Oct 18	0		
19	4 Nov 18	0		
20	11 Nov 18	0		
21	18 Nov 18	0		
22	25 Nov 18	0		
23	2 Dec 18	1	Delayed due to high acute and P1 demand	Patient has received treatment as an outsourced care to private provider
24	9 Dec 18	0		
25	16 Dec 18	0		
26	23 Dec 18	0		
27	30 Dec 18	0		
28	6 Jan 19	2	Cancelled from 14/12/18 & 15/12/18 due to CVICU beds	Planned for the end of week ending 13/01/19, possibly as a contract case
29	13 Jan 19	2	2x cancellations and patient availability plus acute load	1x Patient has received treatment, 2x planned (17/01/19 and 24/01/19)
30	20 Jan 19	4	4x High patient load (high inflows in September + 120 days)	4x Patients have received treatment, 2x planned (24/01/19).
31	27 Jan 19	4	4x Patient availability (Cook Islands patient). 4x High patient load (high inflows in September + 120 days)	1x planned for week of 04/02/19. 1x Patient planned for week of 28/01/19, 3x planned for week of 04/02/19 (Inlude Cook Islands patient)
32	3 Feb 19	5	5x High patient load (high inflows in September + 120 days)	4x Patients planned for week of 04/02/19, 1x Patient upgraded to P1
33	10 Feb 19	5	5x High patient load (high inflows in September + 120 days)	4x Patients planned for w/e 11/02/19, 1x Patient planned for w/e 18/02/19
34	17 Feb 19	2	2x High patient load (high inflows in September + 120 days)	both patients have received treatment
35	24 Feb 19	2	2x High patient load (high inflows in September + 120 days)	both patients are planned for 07/03/2019
36	3 Mar 19	5	5x High acute inflows delaying elective cases	2x Op complete, 3x Patients planned for 07/03/19, 2x Patients planned for w/e 11/03/19
37	10 Mar 19	2	2x High acute inflows delaying elective cases	1x Op complete, 1x Patient planned for week of 11/03/19
38	17 Mar 19	5	5x High acute inflows delaying elective cases	2x Op complete, 3x Patients planned for week of 18/03/19
39	24 Mar 19	2	2x High acute inflows delaying elective cases	2x Op complete
40	31 Mar 19	0		
41	7 Apr 19	1	Awaiting confirmation if patient fit to proceed	Book or suspend as appropriate once confirmed by cardiologist
42	14 Apr 19	1	Awaiting confirmation if patient fit to proceed	Patient suspended
43	21 Apr 19	0		
44	28 Apr 19	1	Patient cancelled from earlier booking due to anaesthetic tech shortage	Patient has received treatment
45	5 May 19	0		
46	12 May 19	0		
47	19 May 19	0		
48	26 May 19	1	Patient cancelled from earlier booking due to acute ECMO to be done	Patient has received treatment
49	2 Jun 19	1	1x Patient unfit (open wound healing), 1x Pending dental clearance	1x Planned for week of 10/06/19, 1x Not yet planned
50	9 Jun 19	0		
51	16 Jun 19	0		
52	23 Jun 19	0		
53	30 Jun 19	0		

Please find attached the latest weekly report from ACH CTSU. In the last week, the service has delivered 22 eligible procedures against a plan of 20.

As of 01/07/19:

- There are 6 P1 patients, longest waiting 25 days, now op complete (was pending other procedures and recovery from URTI + colonoscopy)
- There are 13 lung cancer patients, longest waiting 27 days, planned for 03/07/19
- The longest waiting P2 patient is at 91 days, planned for week of 08/07/19
- The longest waiting P3 patient is at 126 days, now op complete

The waiting list decreased from 75 to 71 patients over this period.

In this period, no patients were suspended or removed from the waiting list.

In this week, the service completed 13 acute and 7 elective eligible bypasses, 2 eligible bypasses via a private provider, 6 non-Northern Region bypasses (including 2 on behalf of Waikato DHB), 4 ECMO, 19 non-bypass, 1 lung transplant, 3 TAVI, and 52 procedures in total. There were 5 cancellations in this period: 1x Previous list overrun, 2x Surgeon not available (transplant), 2x Perfusionist not available (transplant).

Week Ending	Northern	All Pt's - bypass procedures	Non bypass and cardiac other eligible						Total CTSU procedural throughput	Northern bypass eligible %	Non Eligible%
			ECMO	Other Cardiac	Thoracic	Transplant	TAVI (eligible)	Total			
02/06/2019	21	22	2	0	13	0	2	17	37	62%	38%
09/06/2019	18	19	3	0	13	3	2	21	38	53%	47%
16/06/2019	19	22	3	0	17	2	2	24	44	48%	52%
23/06/2019	19	23	3	0	13	0	1	17	39	51%	49%
30/06/2019	22	28	4	0	19	1	3	27	52	48%	52%

- The following table shows the breakdown of completed eligible operations over the period of 24/06/19 – 30/06/19. Note that patients are brought forward on the basis of clinical priority so the DHB spread of these patients will depend on how many P1 patients are presenting for surgery regardless of DHB of domicile.

	Count of NHI Row Labels	Column Labels					Grand Total
		Auckland	Counties Manukau	Northland	Waitemata		
	P1	1	6	8	15		
Aorta including aortic root with or without AV Surgery			1		1		2
AV Surgery			1		3		4
Isolated CABG		1	3		4		8
MV Surgery			1				1
P2	3		1	2			6
AV Surgery		1	1	1			3
MV Surgery		1					1
Valve(s) + CABG		1		1			2
P3					1		1
Isolated CABG					1		1
Grand Total		4	7	2	9		22

- The following table shows the breakdown of the WL as of **01/07/2019**. As noted above the size of the total waiting list for each DHB is not comparative as it depends on the makeup of the waiting list in terms of P1, P2 and P3 patients. P1 patients will always get treated first due to clinical prioritisation.

Row Labels	Count of NHI					Grand Total
	Auckland	Counties Manukau	Northland	Waitemata		
P1	1	2	3	6		
Double valves		1				1
Isolated CABG	1				2	3
MV Surgery				1		1
Valve(s) + CABG		1				1
P2	21	15	7	11	54	
Aorta including aortic root with or without AV Surgery	4	6		2		12
AV Surgery	10	4	2	2		18
Double valves	1	2	1			4
Isolated CABG	2	2		1		5
MV Surgery	1		3	2		6
Valve(s) + CABG	3	1	1	4		9
P3	5	2	1	3	11	
Aorta including aortic root with or without AV Surgery		1				1
Double valves				1		1
Isolated CABG	3		1			4
MV Surgery	2	1		2		5
Grand Total	27	19	8	17	71	

Patients Waiting Longer than 90 and 120 days

PERIOD		Number of Patients	Reason(s)	Treatment plan (Schedule date/ or progress update)
Week No.	Week ending			
1	1 Jul 18	0		
2	8 Jul 18	0		
3	15 Jul 18	0		
4	22 Jul 18	0		
5	29 Jul 18	0		
6	5 Aug 18	0		
7	12 Aug 18	0		
8	19 Aug 18	0		
9	26 Aug 18	0		
10	2 Sep 18	0		
11	9 Sep 18	0		
12	16 Sep 18	0		
13	23 Sep 18	0		
14	30 Sep 18	0		
15	7 Oct 18	0		
16	14 Oct 18	1	Patient cancelled twice due to transplant and acute case	Patient has received treatment as a weekend contract case
17	21 Oct 18	1	Patient cancelled due to more acute case	Patient has received treatment
18	28 Oct 18	0		
19	4 Nov 18	0		
20	11 Nov 18	0		
21	18 Nov 18	0		
22	25 Nov 18	0		
23	2 Dec 18	1	Delayed due to high acute and P1 demand	Patient has received treatment as an outpatients case to private provider
24	9 Dec 18	0		
25	16 Dec 18	0		
26	23 Dec 18	0		
27	30 Dec 18	0		
28	6 Jan 19	2	Cancelled from 13/12/18 & 15/12/18 due to CVICU beds	Planned for the end of week ending 13/01/19, possibly as a contract case
29	13 Jan 19	3	Cancellations and patient availability, plus acute load	1x Patient has received treatment, 2x planned [17/01/19 and 22/01/19]
30	20 Jan 19	6	High patient load (high inflows in September + 120 days)	3x Patients have received treatment, 2x planned (24/01/19).
31	27 Jan 19	4	1x Patient availability (Cook Islands patient). 2x High patient load (high inflows in September + 120 days) 3x Patient availability (Cook Islands patient).	1x planned for week of 04/02/19. 1x Patient planned for week of 28/01/19, 3x planned for week of 04/02/19 (Includes Cook Islands patient).
32	3 Feb 19	5	1x High patient load (high inflows in September + 120 days)	4x Patients planned for week of 04/02/19, 1x Patient upgraded to P1
33	10 Feb 19	5	1x High patient load (high inflows in September + 120 days)	4x Patients planned for w/o 11/02/19, 1x Patient planned for w/o 18/02/19
34	17 Feb 19	2	2x High patient load (high inflows in September + 120 days)	Both patients have received treatment
35	24 Feb 19	2	2x High patient load (high inflows in September + 120 days)	Both patients are planned for 03/03/19.
36	3 Mar 19	1	1x High acute inflows delaying elective cases	2x Op complete, 1x Patients planned for 08/03/19, 2x Patients planned for w/o 11/03/19
37	10 Mar 19	1	1x High acute inflows delaying elective cases	1x Op complete, 1x Patient planned for week of 11/03/19
38	17 Mar 19	1	1x High acute inflows delaying elective cases	1x Op complete, 1x Patients planned for week of 18/03/19
39	24 Mar 19	2	2x High acute inflows delaying elective cases	2x Op complete
40	31 Mar 19	0		
41	7 Apr 19	1	Awaiting confirmation if patient fit to proceed	Book or suspend as appropriate once confirmed by cardiologist
42	14 Apr 19	1	Awaiting confirmation if patient fit to proceed	Patient suspended
43	21 Apr 19	0		
44	28 Apr 19	1	Patient cancelled from earlier booking due to Anaesthetic Tech shortage	Patient has received treatment
45	5 May 19	0		
46	12 May 19	0		
47	19 May 19	0		
48	26 May 19	1	Patient cancelled from earlier booking due to acute ECGM3 to be done	Patient has received treatment
49	2 Jun 19	1	1x Patient unfit (open wound healing), 1x Pending dental clearance	1x Planned for week of 10/06/19, 1x Not yet planned
50	9 Jun 19	3	1x Patient unfit (open wound healing), 2x Pending dental clearance	1x Now suspended, 1x Planned for 12/06/19, 1x Planned for week of 17/06/19
51	16 Jun 19	3	3x High acute demand and clinically appropriate to wait	2x Planned for week of 24/06/19, 1x Planned for 21/06/19
52	23 Jun 19	2	2x Surgeon specific, 1x Clinically appropriate to wait	1x Planned for 27/06/19, 1x Planned for week of 01/07/19
53	30 Jun 19	1+1	1x High acute load, 1x High acute load	1x Planned for week of 08/07/19, 1x Patient has received treatment

Please find attached the latest weekly report from ACH CTSU. In the last week, the service has delivered 18 eligible procedures against a plan of 23.

As of 29/07/19:

- There are 7 P1 patients, longest waiting 12 days, planned for 29/07/19
- There are 9 lung cancer patients, longest waiting 47 days, planned for 01/08/19 (patient had an URTI)
- The longest waiting P2 patient is at 105 days, planned for 02/08/19
- The longest waiting P3 patient is at 76 days, planned for 31/07/19

The waiting list decreased from 75 to 71 patients over this period.

In this period, one patient was suspended or removed from the waiting list: 1x Pt. not available until after 23/08/19

In this week, the service completed 6 acute and 12 elective eligible bypasses, including 4 eligible bypasses via a private provider, plus 6 non-Northern Region bypasses (2 on behalf of Waikato DHB, 2 on behalf of Capital and Coast DHB), 1 ECMO, 2 other cardiac, 14 non-bypass, 1 lung transplant, 3 TAVI, and 42 procedures in total. There were 7 cancellations in this period: 1x ICU bed not available + previous list overrun, 3x Previous list overrun, 1x Anaesthetic Tech not available, 1x Anaesthetic Tech + Perfusionist + Surgeon not available, 1x Surgeon not available.

Week Ending	Northern	All Pt's - bypass procedures	Non bypass and cardiac other eligible						Total CTSU procedural throughput	Northern bypass eligible %	Non Eligible%
			ECMO	Other Cardiac	Thoracic	Transplant	TAVI (eligible)	Total			
30/06/2019	22	28	4	0	19	1	3	27	52	48%	52%
07/07/2019	18	20	2	1	14	0	1	18	37	51%	49%
14/07/2019	21	27	1	1	15	0	1	18	44	50%	50%
21/07/2019	20	22	1	2	12	0	2	17	37	59%	41%
28/07/2019	18	24	1	2	14	1	3	21	42	50%	50%

- The following table shows the breakdown of completed eligible operations over the period of 22/07/19 – 28/07/19. Note that patients are brought forward on the basis of clinical priority so the DHB spread of these patients will depend on how many P1 patients are presenting for surgery regardless of DHB of domicile.

	Count of NHI	Column Labels					Grand Total
		Row Labels	Auckland	Counties Manukau	Northland	Waitemata	
	P1			2	1	3	6
Aorta including aortic root with or without AV Surgery				1	1		2
Double valves				1		1	2
Isolated CABG						1	1
Valve(s) + CABG						1	1
	P2	5	4	3			12
Aorta including aortic root with or without AV Surgery		2	4				6
AV Surgery		2					2
MV Surgery		1		3			4
	Grand Total	5	6	4	3		18

- The following table shows the breakdown of the WL as of **29/07/2019**. As noted above the size of the total waiting list for each DHB is not comparative as it depends on the makeup of the waiting list in terms of P1, P2 and P3 patients. P1 patients will always get treated first due to clinical prioritisation.

Count of NHI Row Labels	Column Labels					Grand Total
	Auckland	Counties Manukau	Northland	Waitemata		
P1	2	3		2		7
AV Surgery	1	1		1		3
Isolated CABG	1	1		1		3
Valve(s) + CABG		1				1
P2	14	19	6	11		50
Aorta including aortic root with or without AV Surgery	3	4				7
AV Surgery	8	3	3	6		20
Double valves	1	2	1	1		5
Isolated CABG		5		1		6
MV Surgery		2	1	1		4
Valve(s) + CABG	2	3	1	2		8
P3	4	3	1	6		14
AV Surgery			1	1		2
Double valves				1		1
Isolated CABG	2	2		1		5
MV Surgery	2	1		3		6
Grand Total	20	25	7	19		71

Patients Waiting Outside of Urgency Timeframes

PERIOD Week No.	Week ending	Number of Patients	Reason(s)	Treatment plan (Schedule date/ or progress update)
1	07 Jul 19		35 1x P1 Patient had a fever	1x Planned for 15/07/19
2	14 Jul 19		38 1x P1 Patient had a fever	1x P1 Patient has received surgery, 12x tentative dates allocated and continuing to manage according to clinical priority as appropriate, with continuous clinical oversight.
3	21 Jul 19		36 1x P1 Patient needs specific team (complex case)	1x P1 Patient planned for 24/07/19, 3x P2 Patients have received surgery, 12x tentative dates allocated and continuing to manage according to clinical priority as appropriate, with continuous clinical oversight.
4	28 Jul 19		30 1x P1 Patient has influenza	1x P1 Patient awaiting test results to proceed, 2x P2 Patients have received surgery, 4x tentative dates allocated and continuing to manage according to clinical priority as appropriate, with continuous clinical oversight.
5	04 Aug 19			
6	11 Aug 19			
7	18 Aug 19			
8	25 Aug 19			
9	01 Sep 19			
10	08 Sep 19			
11	15 Sep 19			
12	22 Sep 19			
13	29 Sep 19			
14	06 Oct 19			
15	13 Oct 19			
16	20 Oct 19			
17	27 Oct 19			
18	03 Nov 19			
19	10 Nov 19			
20	17 Nov 19			
21	24 Nov 19			
22	01 Dec 19			
23	08 Dec 19			
24	15 Dec 19			
25	22 Dec 19			
26	29 Dec 19			
27	05 Jan 20			
28	12 Jan 20			
29	19 Jan 20			
30	26 Jan 20			
31	02 Feb 20			
32	09 Feb 20			
33	16 Feb 20			
34	23 Feb 20			
35	01 Mar 20			
36	08 Mar 20			
37	15 Mar 20			
38	22 Mar 20			
39	29 Mar 20			
40	05 Apr 20			
41	12 Apr 20			
42	19 Apr 20			
43	26 Apr 20			
44	03 May 20			
45	10 May 20			
46	17 May 20			
47	24 May 20			
48	31 May 20			
49	07 Jun 20			
50	14 Jun 20			
51	21 Jun 20			
52	28 Jun 20			

Please find attached the latest weekly report from ACH CTSU. In the last week, the service has delivered 20 eligible procedures against a plan of 24, this lower than planned delivery was due to the number of cancellations.

As of 02/09/19:

- There are 8 P1 patients, longest waiting 14 days, no date yet as being treated for low haemoglobin
- There are 16 lung cancer patients, longest waiting 20 days, planned for 05/09/19
- The longest waiting P2 patient is at 98 days, planned for week of 09/09/19 (needs to arrange family support from overseas)
- The longest waiting P3 patient is at 77 days, not planned as yet

The waiting list decreased from 81 to 80 patients over this period.

In this period, no patients were suspended or removed from the waiting list.

In this week, the service completed 11 acute and 9 elective eligible bypasses, 1 non-Northern Region bypass (on behalf of Waikato), 4 ECMO, 4 other cardiac, 16 non-bypass, 1 transplant (1x Heart), 3 TAVI, and 46 procedures in total. There were 6 cancellations in this period: 2x Patient unfit, 1x CVICU staff & Perfusion not available, 2x Anaesthetist not available, 1x Substitution by acute (heart transplant).

Week Ending	Northern	All Pt's - bypass procedures	Non bypass and cardiac other eligible						Total CTSU procedural throughput	Northern bypass eligible %	Non Eligible%
			ECMO	Other Cardiac	Thoracic	Transplant	TAVI (eligible)	Total			
04/08/2019	19	22	1	2	15	0	2	20	40	53%	48%
11/08/2019	23	25	0	0	21	0	3	24	46	57%	43%
18/08/2019	24	25	2	1	12	0	3	18	40	68%	33%
25/08/2019	18	18	5	2	14	3	3	27	42	50%	50%
01/09/2019	20	21	4	4	16	1	3	28	46	50%	50%

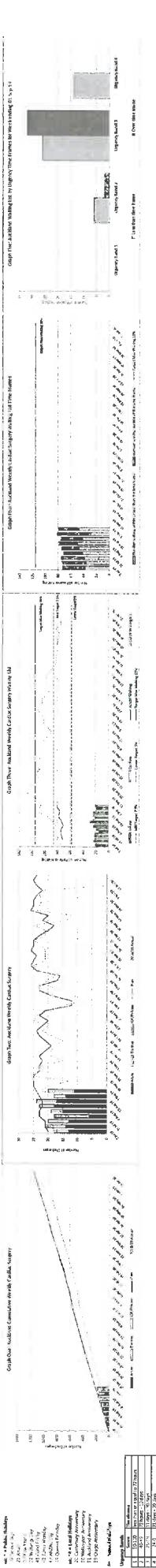
- The following table shows the breakdown of completed eligible operations over the period of **26/08/19 – 01/09/19**. Note that patients are brought forward on the basis of clinical priority so the DHB spread of these patients will depend on how many P1 patients are presenting for surgery regardless of DHB of domicile.

Row Labels	Column Labels					Grand Total
	Auckland	Counties Manukau	Northland	Waitemata		
P1	1	2	4	4	11	
AV Surgery		1	1	1	3	
Double valves		1			1	
Isolated CABG	1		3	3	7	
P2	4	4	1		9	
AV Surgery	4				4	
Isolated CABG		2			2	
TV Surgery		1			1	
Valve(s) + CABG		1	1		2	
Grand Total	5	6	5	4	20	

- The following table shows the breakdown of the WL as of **02/09/2019**. As noted above the size of the total waiting list for each DHB is not comparative as it depends on the makeup of the waiting list in terms of P1, P2 and P3 patients. P1 patients will always get treated first due to clinical prioritisation.

Count of NHI Row Labels	Column Labels					Grand Total
	Auckland	Counties Manukau	Northland	Waitemata		
P1	2	3	1	2	8	
AV Surgery				1	1	
Isolated CABG	2	2	1	1	6	
Valve(s) + CABG		1			1	
P2	15	21	7	15	58	
Aorta including aortic root with or without AV Surgery	2	3			5	
AV Surgery	6	8	4	4	22	
Double valves	1	1	1	1	4	
Isolated CABG	3	4	1	3	11	
MV Surgery	1	2	1	4	8	
Valve(s) + CABG	2	3		3	8	
P3	2	2	1	9	14	
AV Surgery			1	2	3	
Isolated CABG		2		3	5	
MV Surgery	2			3	5	
Valve(s) + CABG				1	1	
Grand Total	19	26	9	26	80	

Period	Week Ending	Previous Week		Current Week		Next Week		Actual Activity			Planned		Forecast		Budgeted	
		Actual	Variance	Actual	Variance	Actual	Variance	Actual	Variance	Actual	Planned	Actual	Planned	Actual	Planned	
Auckland																
1	2023-01-01	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
2	2023-01-08	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
3	2023-01-15	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
4	2023-01-22	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
5	2023-01-29	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
6	2023-02-05	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
7	2023-02-12	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
8	2023-02-19	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
9	2023-02-26	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
10	2023-03-05	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
11	2023-03-12	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
12	2023-03-19	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
13	2023-03-26	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
14	2023-04-02	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
15	2023-04-09	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
16	2023-04-16	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
17	2023-04-23	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
18	2023-04-30	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
19	2023-05-07	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
20	2023-05-14	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
21	2023-05-21	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
22	2023-05-28	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
23	2023-06-04	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
24	2023-06-11	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
25	2023-06-18	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
26	2023-06-25	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
27	2023-07-02	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
28	2023-07-09	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
29	2023-07-16	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
30	2023-07-23	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
31	2023-07-30	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
32	2023-08-06	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
33	2023-08-13	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
34	2023-08-20	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
35	2023-08-27	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
36	2023-09-03	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
37	2023-09-10	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
38	2023-09-17	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
39	2023-09-24	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
40	2023-10-01	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
41	2023-10-08	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
42	2023-10-15	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
43	2023-10-22	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
44	2023-10-29	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
45	2023-11-05	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
46	2023-11-12	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
47	2023-11-19	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
48	2023-11-26	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
49	2023-12-03	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
50	2023-12-10	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
51	2023-12-17	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
52	2023-12-24	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100
53	2023-12-31	100	0	100	0	100	0	100	0	100	100	100	100	100	100	100



Patients Waiting Outside of Urgency Timeframes

Period			Treatment plan Schedule date/ or progress update)		
Week No.	Week ending	Number of Patients	Reason(s)		
1	07 Jul 19	35	1x P1 Patient had a fever		
2	14 Jul 19	38	1x P1 Patient had a fever		
3	21 Jul 19	36	1x P1 Patient needs specific team (complex case)		
4	28 Jul 19	30	1x P1 Patient has influenza		
5	04 Aug 19	28	1x P1 waiting for TAVI		
6	11 Aug 19	30			
7	18 Aug 19	35	2x P1 waiting for TAVI		
8	25 Aug 19	52	1x P1 needs further workup and consideration for TAVI		
9	01 Sep 19	34	2x P1 patients currently not fit for surgery		
10	08 Sep 19				
11	15 Sep 19				
12	22 Sep 19				
13	29 Sep 19				
14	06 Oct 19				
15	13 Oct 19				
16	20 Oct 19				
17	27 Oct 19				
18	03 Nov 19				
19	10 Nov 19				
20	17 Nov 19				
21	24 Nov 19				
22	01 Dec 19				
23	08 Dec 19				
24	15 Dec 19				
25	22 Dec 19				
26	29 Dec 19				
27	05 Jan 20				
28	12 Jan 20				
29	19 Jan 20				
30	26 Jan 20				
31	02 Feb 20				
32	09 Feb 20				
33	16 Feb 20				
34	23 Feb 20				
35	01 Mar 20				
36	08 Mar 20				
37	15 Mar 20				
38	22 Mar 20				
39	29 Mar 20				
40	05 Apr 20				
41	12 Apr 20				
42	19 Apr 20				
43	26 Apr 20				
44	03 May 20				
45	10 May 20				
46	17 May 20				
47	24 May 20				
48	31 May 20				
49	07 Jun 20				
50	14 Jun 20				
51	21 Jun 20				
52	28 Jun 20				

1x P1 Patient has received surgery, 1x tentative dates allocated and continuing to manage according to clinical priority as appropriate, with continuous clinical oversight.
 1x P1 Patient planned for 24/07/19, 3x P2 Patient have received surgery, 1x tentative date allocated and continuing to manage according to clinical priority as appropriate, with continuous clinical oversight.
 1x P1 Patient awaiting test results to proceed, 2x P2 Patients have received surgery, 1x P2 Patient has received surgery, 1x P1 Patient awaiting test results to proceed, 2x P2 Patients have received surgery, 1x P2 Patient has received surgery, 1x P1 Patient awaiting test results to proceed, 2x P2 Patients have received surgery, 1x P1 Patient has received surgery, 1x P2 Patient has received surgery, 1x P1 Patient now suspended, 2x P2 Patients have received surgery, 4x P2 patients planned for this week, 7x tentative dates allocated and continuing to manage according to clinical priority as appropriate, with continuous clinical oversight
 1x P1 Patient being treated for low haemoglobin, 1x P1 Patient has received surgery, 1x P2 Patient has received surgery, 1x P2 Patient planned for week of 09/09/19, 1x P2 Patient planned for week of 09/09/19, 5x P2 Patients planned for 05/09/19, 2x P2 Patients planned for 05/09/19, 1x P2 Patient planned for week of 16/09/19

Please find attached the latest weekly report from ACH CTSU. In the last week, the service has delivered 12 eligible procedures against a plan of 23, this reduction in delivery was a result of a high number of cancellations, and the inability to schedule to full capacity due to OR resource.

As of 30/09/19:

- There are 14 P1 patients, longest waiting 12 days, planned for 01/10/19
- There are 12 lung cancer patients, longest waiting 28 days, planned for 03/10/19
- The longest waiting P2 patient is at 109 days, planned for week of 07/10/19
- The longest waiting P3 patient is at 94 days, planned for week of 30/09/19

The waiting list increased from 87 to 91 patients over this period.

In this period, 2 patients were suspended or removed from the waiting list: 1x Pt family not yet in country, 1x Pt for neurology review.

In this week, the service completed 10 acute and 2 elective eligible bypasses, 3 non-Northern Region bypasses, 2 ECMO, 15 non-bypass, 2 TAVI, and 32 procedures in total.

There were 9 cancellations in this period: 5x CVICU bed not available, 2x Anaesthetist not available, 2x Substitution by acute. There were 4 surgical slots left unbooked in this period: 4x OR resource not available.

Week Ending	Northern	All Pt's - bypass procedures	Non bypass and cardiac other eligible						Total CTSU procedural throughput	Northern bypass eligible %	Non Eligible%
			ECMO	Other Cardiac	Thoracic	Transplant	TAVI (eligible)	Total			
01/09/2019	20	21	4	4	16	1	3	28	46	50%	50%
08/09/2019	24	25	2	1	17	0	3	23	45	60%	40%
15/09/2019	20	20	1	0	18	0	3	22	39	59%	41%
22/09/2019	16	19	3	0	22	4	3	32	48	40%	60%
29/09/2019	12	15	2	0	15	0	2	19	32	44%	56%

- The following table shows the breakdown of completed eligible operations over the period of 23/09/19 – 29/09/19. Note that patients are brought forward on the basis of clinical priority so the DHB spread of these patients will depend on how many P1 patients are presenting for surgery regardless of DHB of domicile.

Row Labels	Column Labels			
	Auckland	Northland	Waitemata	Grand Total
P1	3	1	5	9
AV Surgery			1	1
Double valves		1		1
Isolated CABG	3		3	6
Valve(s) + CABG			1	1
P2	2			2
AV Surgery	1			1
TV Surgery	1			1
P3	1			1
MV Surgery	1			1
Grand Total	6	1	5	12

- The following table shows the breakdown of the WL as of **30/09/2019**. As noted above the size of the total waiting list for each DHB is not comparative as it depends on the makeup of the waiting list in terms of P1, P2 and P3 patients. P1 patients will always get treated first due to clinical prioritisation.

Count of NHI Row Labels	Column Labels					Grand Total
	Auckland	Counties Manukau	Northland	Waitemata		
P1	3	4	5	2	14	
Aorta including aortic root with or without AV Surgery		1				1
AV Surgery	1					1
Double valves				1		1
Isolated CABG	2	2	5	1		10
Valve(s) + CABG		1				1
P2	15	25	5	17		62
Aorta including aortic root with or without AV Surgery	1	2				3
AV Surgery	4	9	3	4		20
Double valves	1			2		3
Isolated CABG	5	8	1	4		18
MV Surgery	2	2	1	4		9
Valve(s) + CABG	2	4		3		9
P3	3	3	1	8		15
Aorta including aortic root with or without AV Surgery	1					1
AV Surgery			1	1		2
Isolated CABG	1	3		3		7
MV Surgery	1			3		4
Valve(s) + CABG				1		1
Grand Total	21	32	11	27		91

Patients Waiting Outside of Urgency Timeframes

Period	Week No.	Number of Patients	Reason(s)
Treatment date [Schedule date(s) or temporary update]			
07 Jul 19	1	14 Jul 19	35 1x P1 Patient has a fever
21 Jul 19	2	14 Jul 19	38 2x P1 Patient has a fever
28 Jul 19	3	14 Jul 19	36 1x P1 Patient needs a specific team (complex case)
04 Aug 19	4	28 Jul 19	30 1x P1 Patient has influenza
11 Aug 19	5	14 Jul 19	28 1x P1 waiting for TAVI
18 Aug 19	6	14 Jul 19	35 2x P2 waiting for TAVI
25 Aug 19	7	14 Jul 19	35 2x P2 waiting for TAVI
01 Sep 19	8	14 Jul 19	35 2x P2 waiting for TAVI and consideration for TAVI
08 Sep 19	9	14 Jul 19	34 2x P2 waiting for TAVI and consideration for TAVI
15 Sep 19	10	14 Jul 19	38 2x P2 patient on ventilator waiting for surgery
22 Sep 19	11	14 Jul 19	36 2x P2 Patients cancelled due to critical hospital capacity
29 Sep 19	12	14 Jul 19	45 2x P1 cancelled from contract due to high ICU load. 1x P2 cancelled due to high P1 load. 1x P2 unable to be scheduled as uncontractable. 1x P3 cancelled due to critical hospital capacity
06 Oct 19	13	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 1x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
13 Oct 19	14	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
20 Oct 19	15	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
27 Oct 19	16	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
03 Nov 19	17	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
10 Nov 19	18	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
17 Nov 19	19	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
24 Nov 19	20	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
01 Dec 19	21	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
08 Dec 19	22	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
15 Dec 19	23	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
22 Dec 19	24	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
29 Dec 19	25	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
05 Jan 20	26	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
12 Jan 20	27	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
19 Jan 20	28	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
26 Jan 20	29	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
02 Feb 20	30	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
09 Feb 20	31	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
16 Feb 20	32	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
23 Feb 20	33	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
01 Mar 20	34	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
08 Mar 20	35	14 Jul 19	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
15 Mar 20	36	08 Mar 20	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
22 Mar 20	37	08 Mar 20	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
29 Mar 20	38	08 Mar 20	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
05 Apr 20	39	08 Mar 20	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
12 Apr 20	40	08 Mar 20	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
19 Apr 20	41	08 Mar 20	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
26 Apr 20	42	08 Mar 20	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
03 May 20	43	08 Mar 20	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
10 May 20	44	08 Mar 20	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
17 May 20	45	08 Mar 20	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
24 May 20	46	08 Mar 20	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
31 May 20	47	08 Mar 20	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
07 Jun 20	48	08 Mar 20	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
14 Jun 20	49	08 Mar 20	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
21 Jun 20	50	08 Mar 20	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
28 Jun 20	51	08 Mar 20	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19
05 Jul 20	52	08 Mar 20	46 2x P1 Patients booked for 01/10/19, 2x P2 Patients planned for week of 07/10/19, 1x P3 Patients planned for week of 30/09/19

Please find attached the latest weekly report from ACH CTSU. In the last week, the service has delivered 22 eligible procedures against a plan of 21.

As of 28/10/19:

- There are 17 P1 patients, longest waiting 11 days, now op complete
- There are 4 lung cancer patients, longest waiting 11 days, now op complete
- The longest waiting P2 patient is at 94 days, planned for week of 04/11/19
- The longest waiting P3 patient is at 69 days, not planned as yet

The waiting list increased from 74 to 80 patients over this period.

In this period, 0 patients were suspended or removed from the waiting list.

In this week, the service completed 11 acute and 11 elective eligible bypasses, 2 non-Northern Region bypasses (including 1 bypass for Capital and Coast DHB), 2 ECMO, 18 non-bypass, 2 TAVI, and 44 procedures in total.

There were 5 cancellations in this period: 4x CVICU bed not available, 1x Previous list overrun.

Week Ending	Northern	All Pt's - bypass procedures	Non bypass and cardiac other eligible						Total CTSU procedural throughput	Northern bypass eligible %	Non Eligible%
			ECMO	Other Cardiac	Thoracic	Transplant	TAVI (eligible)	Total			
29/09/2019	12	15	2	0	15	0	2	19	32	44%	56%
06/10/2019	25	26	2	0	12	1	3	18	41	68%	32%
13/10/2019	23	26	2	0	17	0	2	21	45	56%	44%
20/10/2019	15	18	1	0	13	0	0	14	32	47%	53%
27/10/2019	22	24	2	0	18	0	2	22	44	55%	45%

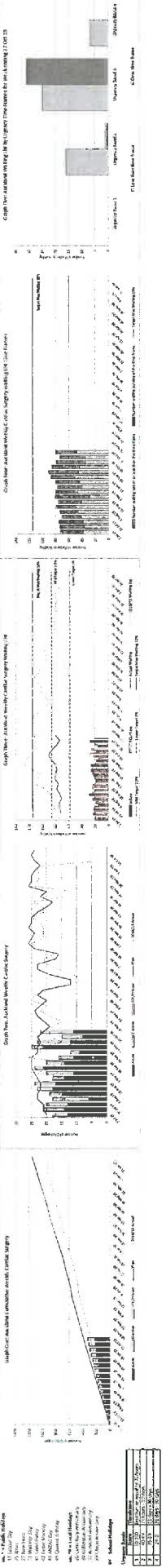
- The following table shows the breakdown of completed eligible operations over the period of 21/10/19 – 27/10/19. Note that patients are brought forward on the basis of clinical priority so the DHB spread of these patients will depend on how many P1 patients are presenting for surgery regardless of DHB of domicile.

Count of NHI Row Labels	Column Labels					Grand Total
	Auckland	Counties Manukau	Northland	Waitemata		
P1	1	5	1	4	11	
Isolated CABG	1	4		3	8	
MV Surgery				1	1	
Valve(s) + CABG		1	1		2	
P2	2	1	1	4	8	
AV Surgery			1		1	
Double valves				1	1	
Isolated CABG	1	1			2	
MV Surgery				2	2	
Valve(s) + CABG	1			1	2	
P3			1	2	3	
AV Surgery			1	1	2	
Valve(s) + CABG				1	1	
Grand Total	3	6	3	10	22	

- The following table shows the breakdown of the WL as of **28/10/2019**. As noted above the size of the total waiting list for each DHB is not comparative as it depends on the makeup of the waiting list in terms of P1, P2 and P3 patients. P1 patients will always get treated first due to clinical prioritisation.

Count of NHI Row Labels	Column Labels					Grand Total
	Auckland	Counties Manukau	Northland	Waitemata		
P1	1	5	1	10	17	
AV Surgery				3	3	
Isolated CABG		2	1	4	7	
MV Surgery		3		1	4	
Valve(s) + CABG	1			2	3	
P2	11	23	5	17	56	
Aorta including aortic root with or without AV Surgery	1	1	1		3	
AV Surgery	3	11	1	4	19	
Double valves	1	1		2	4	
Isolated CABG	3	7	2	3	15	
MV Surgery	3	1	1	4	9	
Valve(s) + CABG		2		4	6	
P3	3	2		2	7	
Aorta including aortic root with or without AV Surgery	1	1			2	
Isolated CABG	1	1		1	3	
MV Surgery	1			1	2	
Grand Total	15	30	6	29	80	

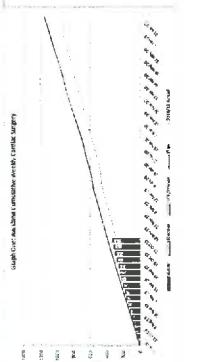
Auckland											
Week Ending		Actual		Forecast							
Period	Date	Total (in thousands)	Average (in thousands)	Residential	Commercial	Industrial	Other	Office	Entertainment	Trade	Commercial
1	2023-01-01	7,740	574	4,650	2,140	1,150	850	560	460	710	580
2	2023-01-08	7,815	561	4,720	2,180	1,240	850	560	460	710	580
3	2023-01-15	7,740	574	4,650	2,140	1,150	850	560	460	710	580
4	2023-01-22	7,815	561	4,720	2,180	1,240	850	560	460	710	580
5	2023-01-29	7,815	561	4,720	2,180	1,240	850	560	460	710	580
6	2023-02-05	7,815	561	4,720	2,180	1,240	850	560	460	710	580
7	2023-02-12	7,815	561	4,720	2,180	1,240	850	560	460	710	580
8	2023-02-19	7,815	561	4,720	2,180	1,240	850	560	460	710	580
9	2023-02-26	7,815	561	4,720	2,180	1,240	850	560	460	710	580
10	2023-03-05	7,815	561	4,720	2,180	1,240	850	560	460	710	580
11	2023-03-12	7,815	561	4,720	2,180	1,240	850	560	460	710	580
12	2023-03-19	7,815	561	4,720	2,180	1,240	850	560	460	710	580
13	2023-03-26	7,815	561	4,720	2,180	1,240	850	560	460	710	580
14	2023-04-02	7,815	561	4,720	2,180	1,240	850	560	460	710	580
15	2023-04-09	7,815	561	4,720	2,180	1,240	850	560	460	710	580
16	2023-04-16	7,815	561	4,720	2,180	1,240	850	560	460	710	580
17	2023-04-23	7,815	561	4,720	2,180	1,240	850	560	460	710	580
18	2023-04-30	7,815	561	4,720	2,180	1,240	850	560	460	710	580
19	2023-05-07	7,815	561	4,720	2,180	1,240	850	560	460	710	580
20	2023-05-14	7,815	561	4,720	2,180	1,240	850	560	460	710	580
21	2023-05-21	7,815	561	4,720	2,180	1,240	850	560	460	710	580
22	2023-05-28	7,815	561	4,720	2,180	1,240	850	560	460	710	580
23	2023-06-04	7,815	561	4,720	2,180	1,240	850	560	460	710	580
24	2023-06-11	7,815	561	4,720	2,180	1,240	850	560	460	710	580
25	2023-06-18	7,815	561	4,720	2,180	1,240	850	560	460	710	580
26	2023-06-25	7,815	561	4,720	2,180	1,240	850	560	460	710	580
27	2023-07-02	7,815	561	4,720	2,180	1,240	850	560	460	710	580
28	2023-07-09	7,815	561	4,720	2,180	1,240	850	560	460	710	580
29	2023-07-16	7,815	561	4,720	2,180	1,240	850	560	460	710	580
30	2023-07-23	7,815	561	4,720	2,180	1,240	850	560	460	710	580
31	2023-07-30	7,815	561	4,720	2,180	1,240	850	560	460	710	580
32	2023-08-06	7,815	561	4,720	2,180	1,240	850	560	460	710	580
33	2023-08-13	7,815	561	4,720	2,180	1,240	850	560	460	710	580
34	2023-08-20	7,815	561	4,720	2,180	1,240	850	560	460	710	580
35	2023-08-27	7,815	561	4,720	2,180	1,240	850	560	460	710	580
36	2023-09-03	7,815	561	4,720	2,180	1,240	850	560	460	710	580
37	2023-09-10	7,815	561	4,720	2,180	1,240	850	560	460	710	580
38	2023-09-17	7,815	561	4,720	2,180	1,240	850	560	460	710	580
39	2023-09-24	7,815	561	4,720	2,180	1,240	850	560	460	710	580
40	2023-10-01	7,815	561	4,720	2,180	1,240	850	560	460	710	580
41	2023-10-08	7,815	561	4,720	2,180	1,240	850	560	460	710	580
42	2023-10-15	7,815	561	4,720	2,180	1,240	850	560	460	710	580
43	2023-10-22	7,815	561	4,720	2,180	1,240	850	560	460	710	580
44	2023-10-29	7,815	561	4,720	2,180	1,240	850	560	460	710	580
45	2023-11-05	7,815	561	4,720	2,180	1,240	850	560	460	710	580
46	2023-11-12	7,815	561	4,720	2,180	1,240	850	560	460	710	580
47	2023-11-19	7,815	561	4,720	2,180	1,240	850	560	460	710	580
48	2023-11-26	7,815	561	4,720	2,180	1,240	850	560	460	710	580
49	2023-12-03	7,815	561	4,720	2,180	1,240	850	560	460	710	580
50	2023-12-10	7,815	561	4,720	2,180	1,240	850	560	460	710	580
51	2023-12-17	7,815	561	4,720	2,180	1,240	850	560	460	710	580
52	2023-12-24	7,815	561	4,720	2,180	1,240	850	560	460	710	580
53	2023-12-31	7,815	561	4,720	2,180	1,240	850	560	460	710	580



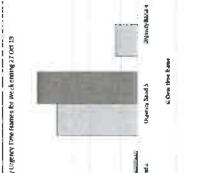
Graph 4 Daily Average Number of Visitors per Category



Graph 5 Daily Average Number of Visitors



Graph 6 Weekly Average Number of Visitors



Graph 7 Monthly Average Number of Visitors

Please find attached the latest weekly report from ACH CTSU. In the last week, the service has delivered 18 eligible procedures against a plan of 22.

As of 02/12/19:

- There are 9 P1 patients, longest waiting 10 days, now op complete
- There are 5 lung cancer patients, longest waiting 12 days, planned for week of 09/12/19
- The longest waiting P2 patient is at 102 days, now op complete
- The longest waiting P3 patient is at 103 days, planned for 03/12/19

The waiting list increased from 74 to 76 patients over this period.

In this period, 2 patients were suspended or removed from the waiting list: 1x Patient not available (overseas), 1x Patient requested delay to arrange home support.

In this week, the service completed 15 acute and 3 elective eligible bypasses, 3 non-Northern Region bypass (including 1x bypass for Waikato DHB), 4 ECMO, 16 non-bypass, 2 transplants (2x lung), 5 eligible TAVI, and 43 procedures in total.

There were 9 cancellations in this period: 3x CVICU bed not available, 1x Surgeon not available (transplant retrieval), 3x CVICU bed and Perfusionist not available, 2x Substitution by acute NBP cases. There were 5 surgical slots not booked in this period: 4x All day cases, 1x CVICU bed not available.

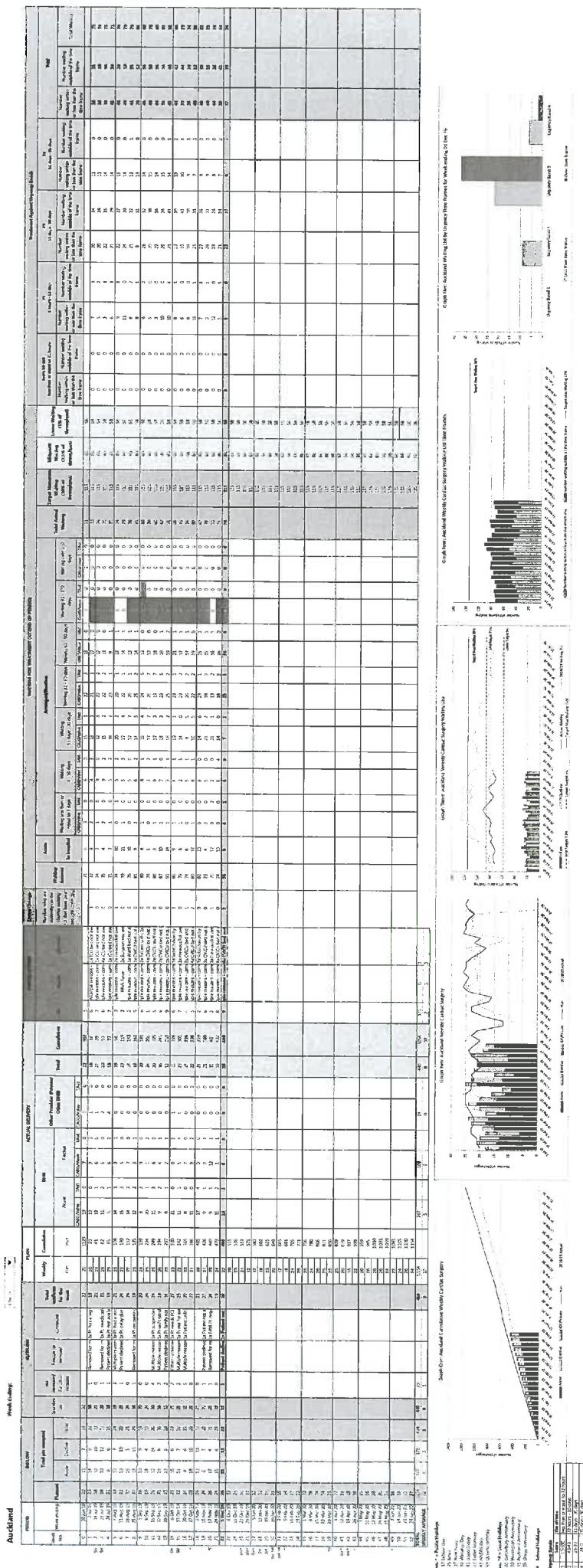
Week Ending	Northern	All Pt's - bypass procedures	Non bypass and cardiac other eligible							Total CTSU procedural throughput	Northern bypass eligible %	Non Eligible%
			ECMO	Other Cardiac	Thoracic	Transplant	TAVI (eligible)	Total				
03/11/2019	21	22	2	0	15	0	4	21	39	64%	36%	
10/11/2019	21	22	3	0	14	1	3	21	40	50%	40%	
17/11/2019	23	26	3	1	18	0	2	24	48	52%	48%	
24/11/2019	19	20	4	0	9	4	3	20	37	59%	41%	
01/12/2019	18	21	4	0	16	2	5	27	43	53%	47%	

- The following table shows the breakdown of completed eligible operations over the period of 25/11/19 – 01/12/19. Note that patients are brought forward on the basis of clinical priority so the DHB spread of these patients will depend on how many P1 patients are presenting for surgery regardless of DHB of domicile.

	Count of NHI Row Labels	Column Labels					Grand Total
		Auckland	Counties Manukau	Northland	Waitemata		
	P1	3	4	4	4	15	
Aorta including aortic root with or without AV Surgery				1			1
AV Surgery				2			2
Isolated CABG	1		4		3		8
TV Surgery	1						1
Valve(s) + CABG	1			1	1		3
P2	1	1			1		3
Aorta including aortic root with or without AV Surgery					1		1
AV Surgery	1		1				2
Grand Total	4		5	4	5		18

- The following table shows the breakdown of the WL as of **02/12/2019**. As noted above the size of the total waiting list for each DHB is not comparative as it depends on the makeup of the waiting list in terms of P1, P2 and P3 patients. P1 patients will always get treated first due to clinical prioritisation.

Count of NHI Row Labels	Column Labels					Grand Total
	Auckland	Counties Manukau	Northland	Waitemata		
P1	2	3	1	3	9	
AV Surgery		2		2	2	4
Double valves				1	1	1
Isolated CABG	2		1			3
Valve(s) + CABG		1				1
P2	12	24	5	18	59	
Aorta including aortic root with or without AV Surgery	1	2				3
AV Surgery	2	11	2	6	21	
Double valves	1	2		1	4	
Isolated CABG	4	5	2	4	15	
MV Surgery	3	2	1	2	8	
Valve(s) + CABG	1	2		5	8	
P3	2	3		3	8	
Aorta including aortic root with or without AV Surgery	1	1				2
Isolated CABG		1		2	3	
MV Surgery	1	1		1	3	
Grand Total	16	30	6	24	76	



Patients Waiting Outside of Urgency Timelines

September 2019

PCCS presentation to Heart Kids

Optimal care.....

- Surety of treatment with well defined timeline
- No avoidable complications
- Best outcomes
- Two-way co-operative and supportive interaction with families

- It takes a village to raise a child.....

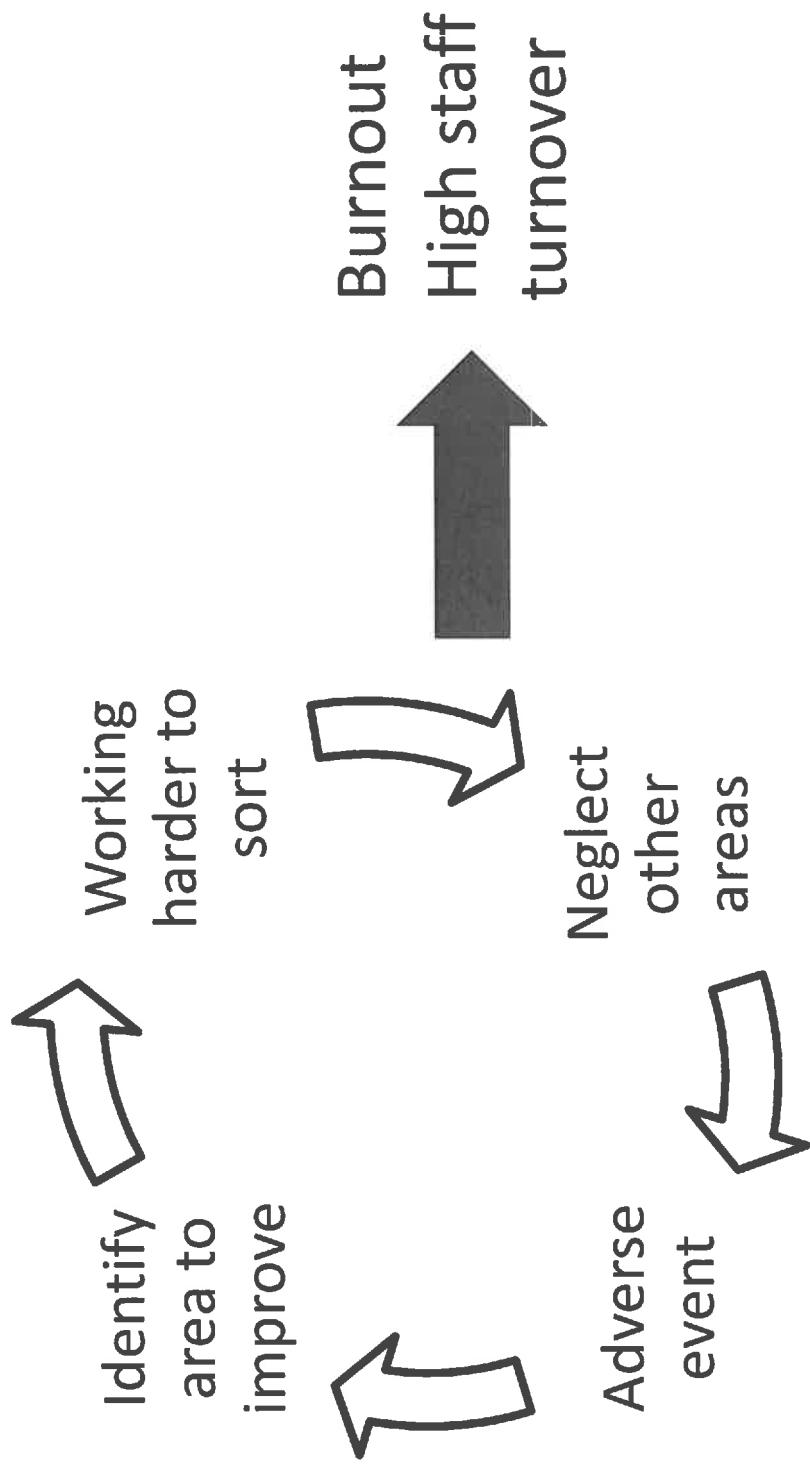
It takes an army to treat a child with
congenital heart disease.....

Event	Actions	Staff
Diagnosis	Secondary care diagnostics Acute transfer ('epiphany') or scheduled paediatric cardiology outpatient clinic review (local or outreach)	Pediatrician with a cardiology interest Locally trained sonographer Paediatric cardiologist*
High level diagnostics (MRI Auckland, Wellington and Christchurch, remasterer Auckland only)	Tertiary level echocardiogram Cardiac MRI	Paediatric cardiac sonographer Cardiac radiologist or subspecialised paediatric cardiologist Paediatric cardiac geneticist
Decision making and communication	Cardiac Catheterisation Cardiac CT Transoesophageal echocardiography Multidisciplinary meeting	Subspecialised paediatric cardiologist Paediatric cardiac anaesthetist Physiology Radiographer Specialised nursing staff Cardiac radiologist or subspecialised paediatric cardiologist Paediatric cardiac anaesthetist Paediatric cardiologist Perioperative cardiologists Pediatric cardiac surgeons Nurse specialists Psychologist Play Therapist Social worker
Intervention	Catheter Intervention Cardiac Surgery	Specialised scheduling staff Paediatric cardiac surgeon Subspecialised cardiac perfusionist Subspecialised paediatric cardiac nursing staff including nurse persist Paediatric cardiac surgical trainee Paediatric cardiac anaesthetist Paediatric echocardiologist Specialised paediatric cardiologist Paediatric cardiac anaesthetist Physiology Radiographer Specialised nursing staff
Recovery	Catheter Intervention Intensive Care	Nurse practitioners Nurse specialist Paediatric cardiologist* Paediatric cardiac surgeon Specialised nursing staff Play therapist
Discharge	Cardiac Ward	Nurse specialist Social worker Local DHB paediatrician Paediatric cardiologist Paediatric cardiac surgeon Speech language therapist
Postoperative Surveillance	Outpatient/Outreach Clinic	Nurse specialist Social worker Local DHB paediatrician Paediatric cardiologist Paediatric cardiac sonographer

Problems

- Funding did not recognise complexity
- Growing complexity = growing resource requirement
- Ambitious service
 - Staff often overstretched
- Insufficient staff/other resource to mitigate risk

Vicious cycle



- Poorly resourced care is expensive
 - Cancellations
 - Complications
- Very complex service with many critical staff experts in specific areas
 - High risk of system failure
- Staff working late into the evenings and in the weekend to get work done

What made a difference?

Cancellation rates

Complaints

Heart Kids NZ

What happened

- Very significant increase in funding for
 - ICU beds
 - Operating room availability
 - Senior nursing staff
 - Mid-level medical staff
 - Senior medical staff

New funding for children - year 1 (2015-16)

- Two ICU beds (= 10 nurses)
- Additional operating room time (anesthetist, an aesthetics technician, perfusionist, theatre nurses)
- Ward nurses (4)
- Nurse specialist
- Sonographer

New funding for children - Year 2 (2016/17)

- Cardiologists (2)
 - Electrophysiology (heart rhythm)
 - Imaging
- Nurse specialist
- Nurse practitioner
- Psychologist
- Data Analyst

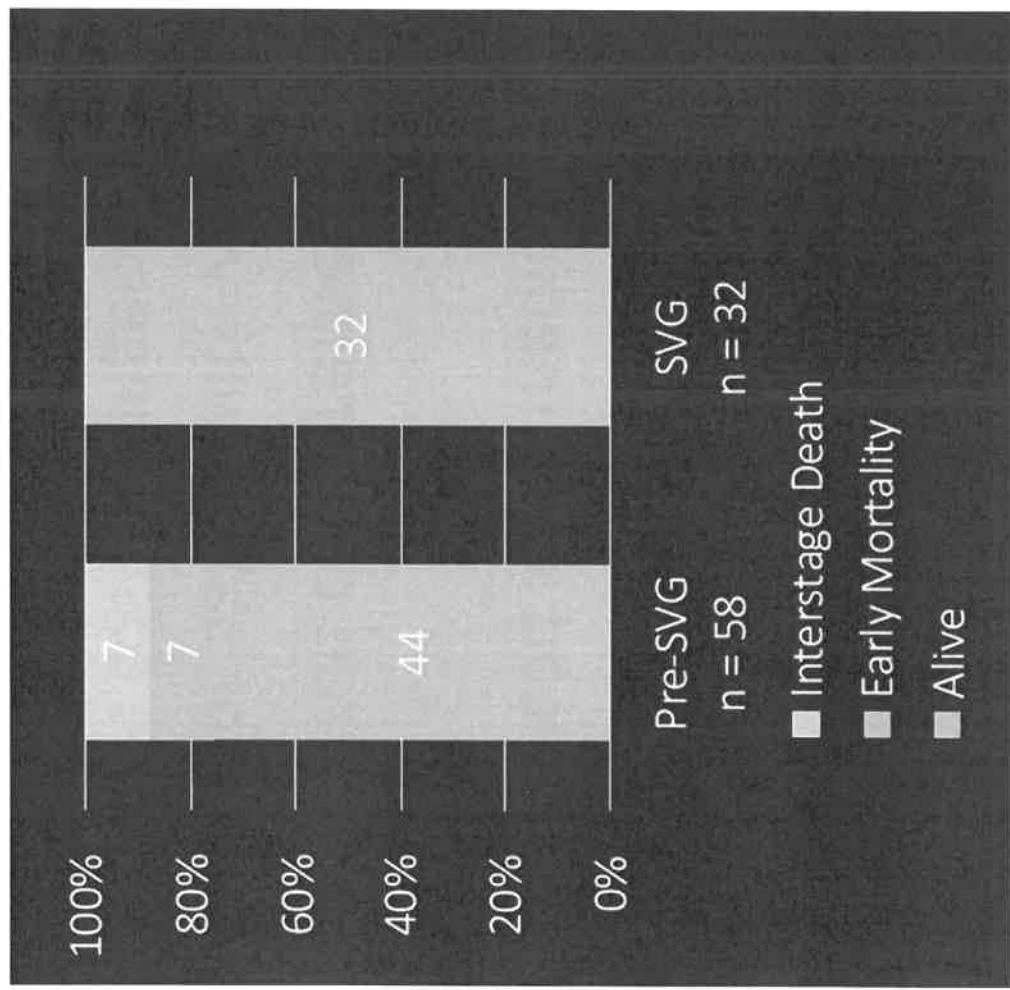
What this means

- Less out of hours surgery
- Better support for families
- More assistance from senior nursing staff
- Future proofing
- Better and more efficient running of the inpatient service

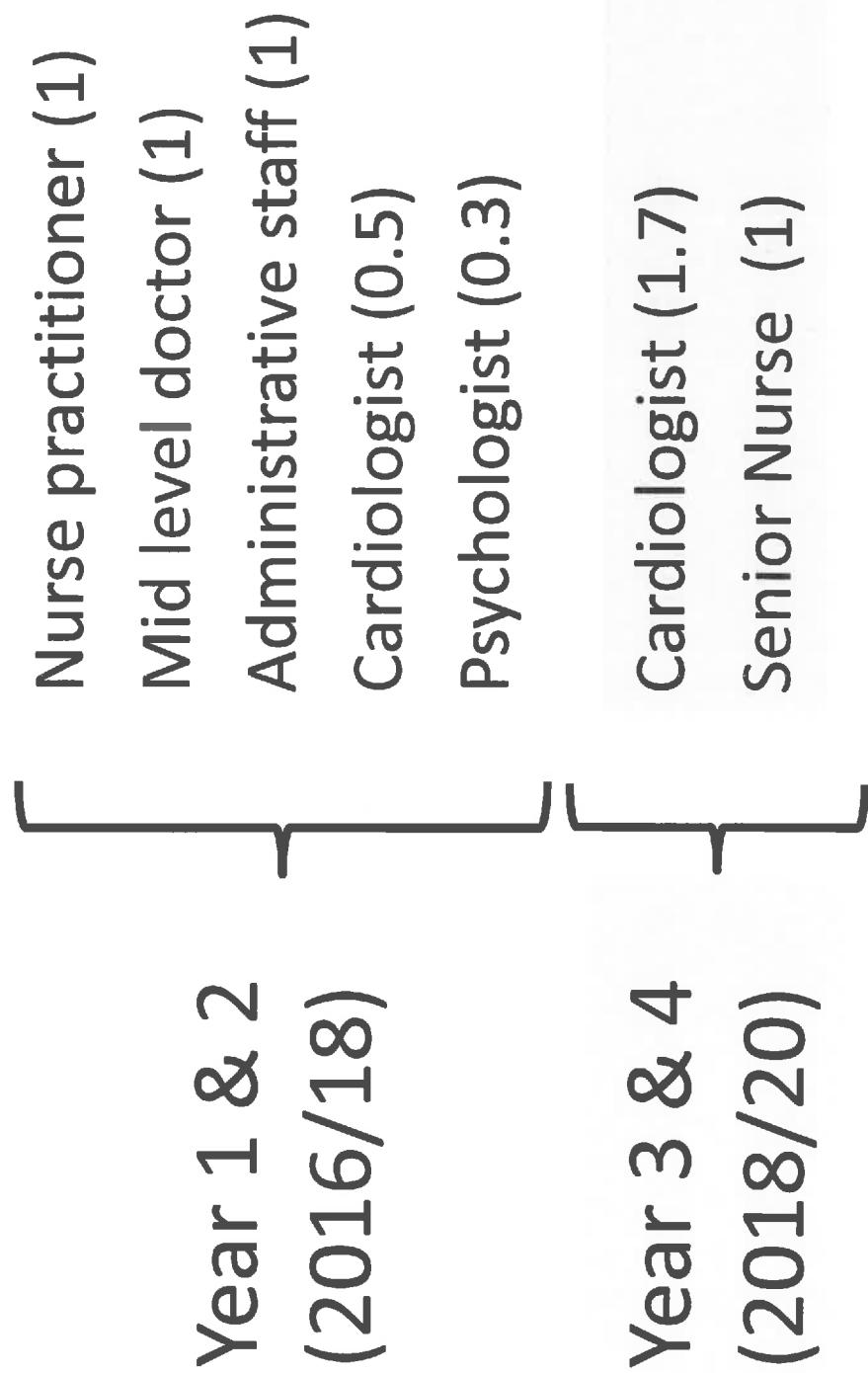
Why haven't all the issues been sorted

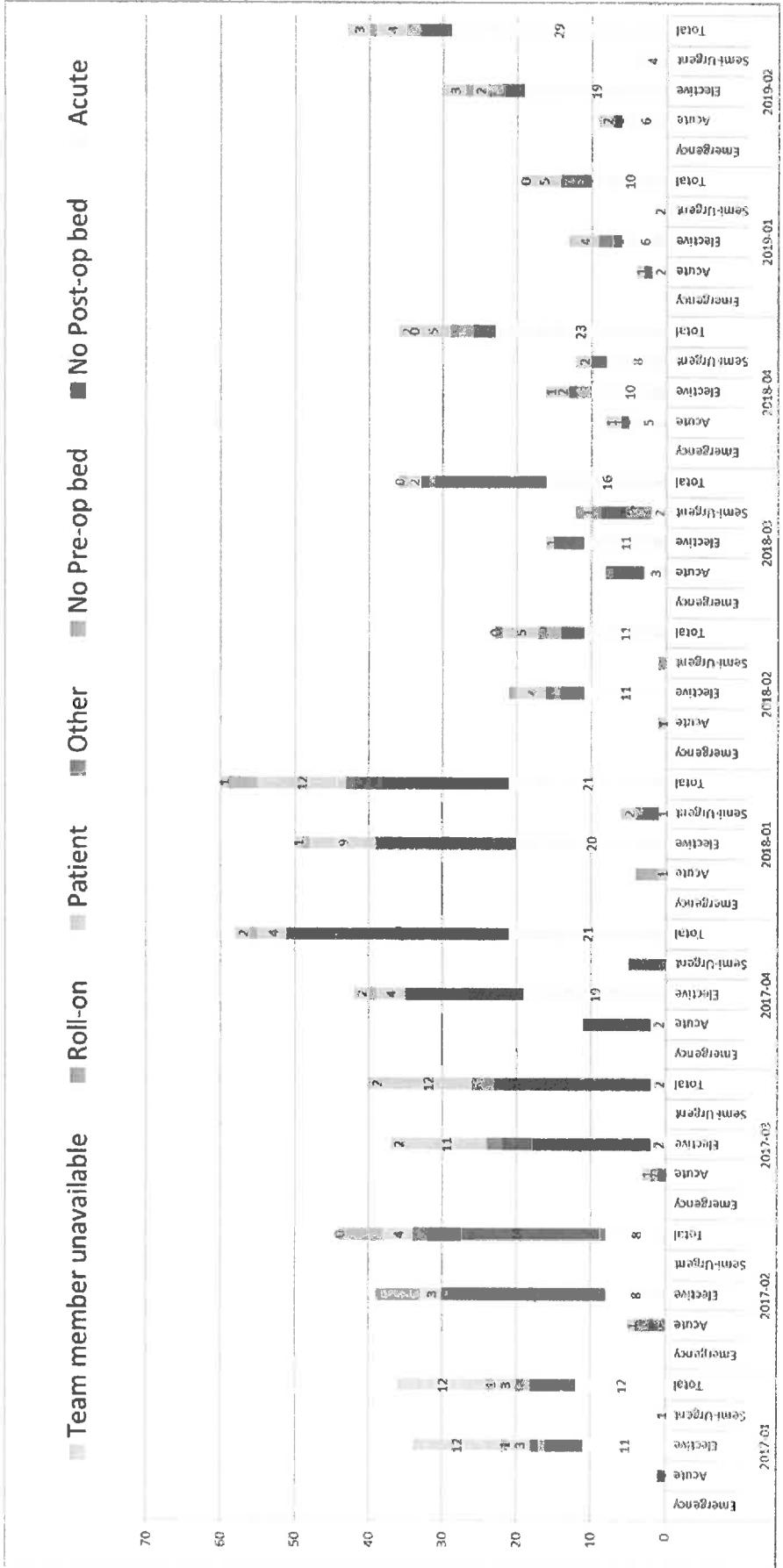
- Recruitment
 - 12-18 months lead in for nursing staff
 - 12-24 months lead in for medical staff – longer to train your own
- Changing resource requirements
 - Better results for babies with very complex heart problems at the cost of longer hospital stay
 - Expanding role for intensive care – increasing length of stay

2013-16 2017-18



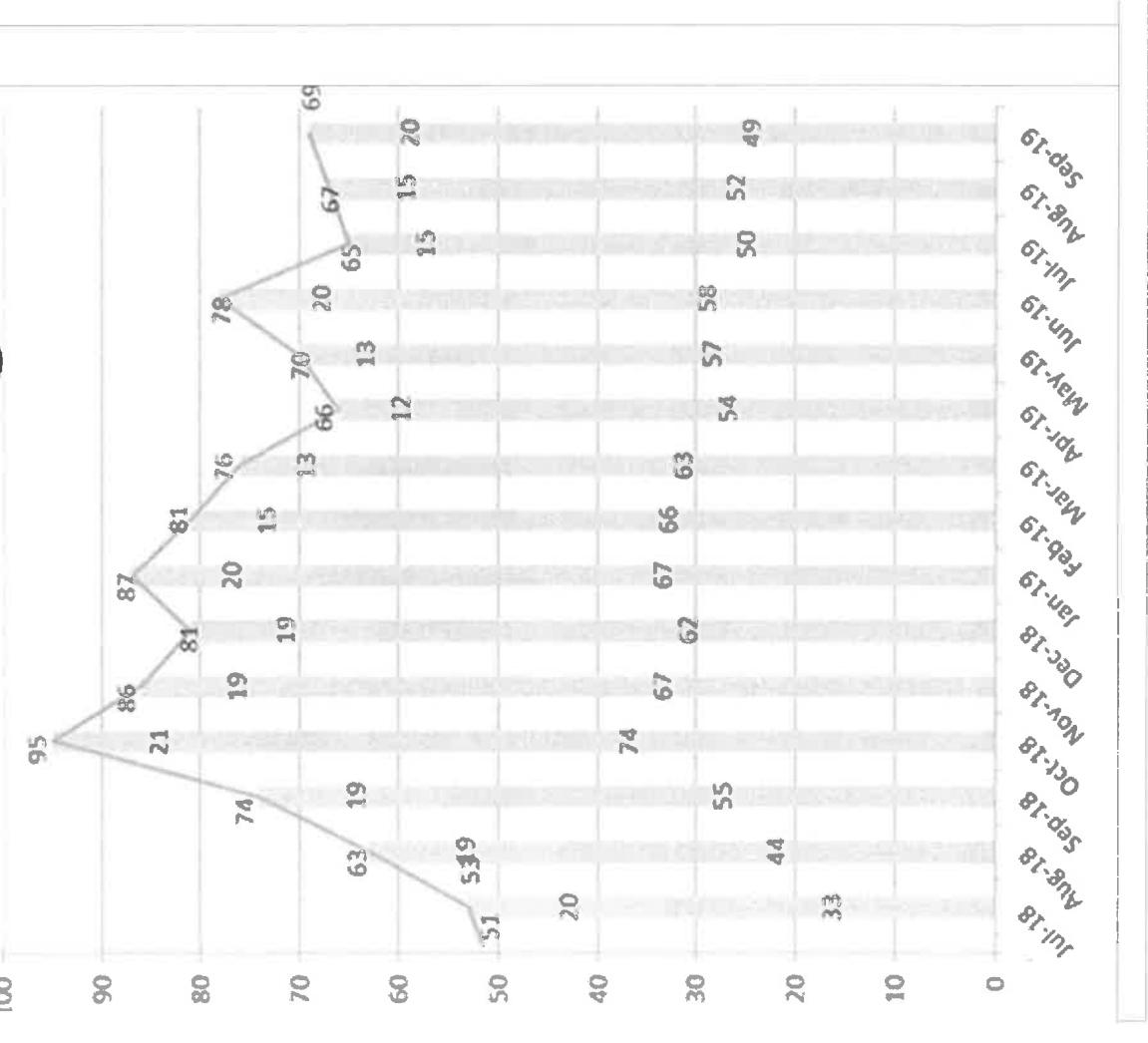
What about kids who have grown-up?



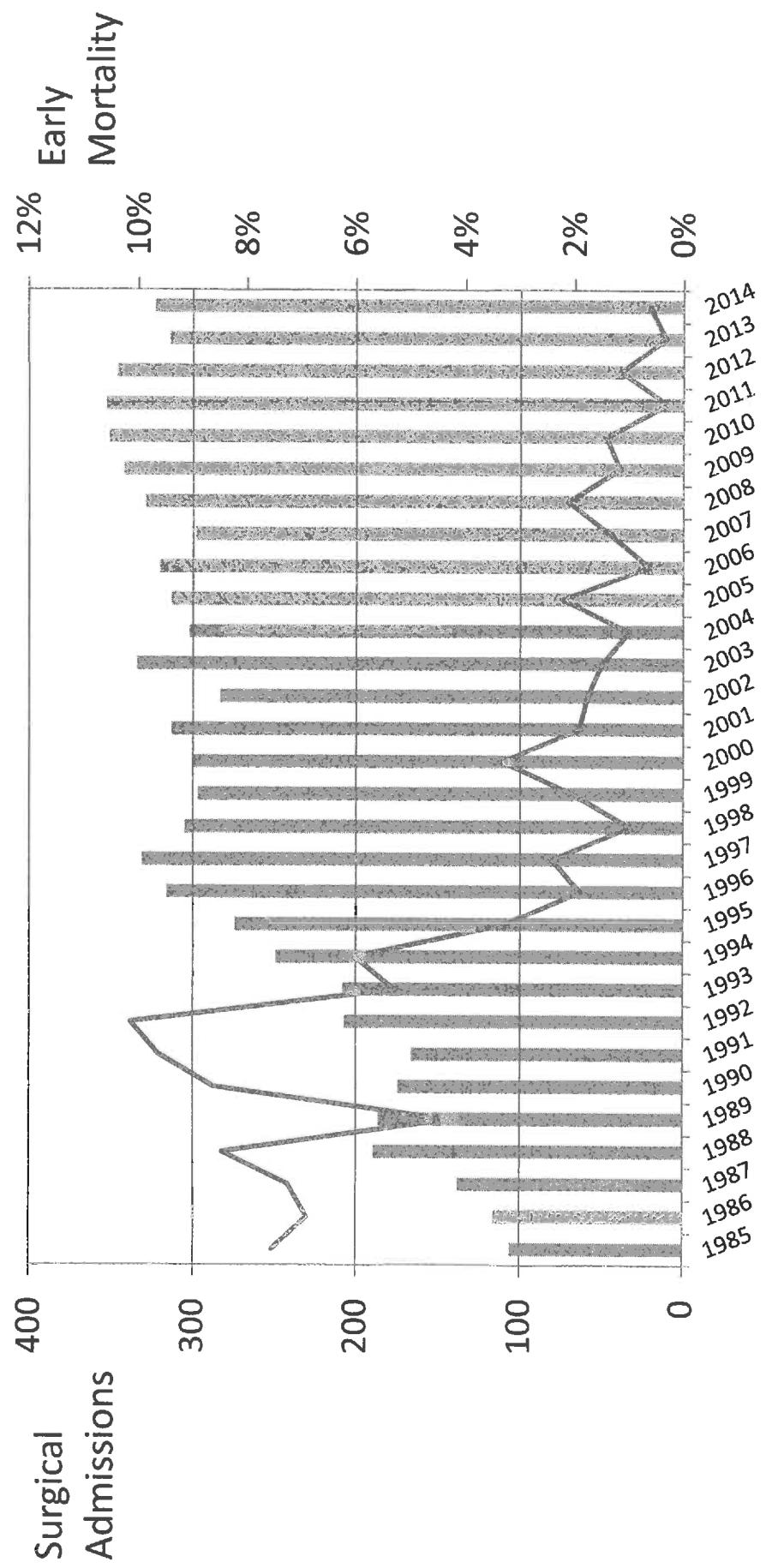


■ Team member unavailable ■ Roll-on ■ Patient ■ Other ■ No Pre-op bed ■ No Post-op bed ■ Acute

Waiting list



Volume and early mortality



Cumulative Key Performance Indicators (OCT-DEC 2018)

Operation Type	Alive	Early Mortality	Late Mortality	Total
CPB	88	1		89
No CPB Cardiovascular	15			15
Other	2			2
Total	105	1		106

where Other includes: ECMO; Non-cardiac, Non-thoracic procedure on cardiac patient with cardiac anaesthesia; Thoracic; VAD Operation Done Without CPB

