

Table 1: Demographics of groups before and after rapid treatment pathway for initiation of HIV care for PLHIV referred to the Infectious Diseases Service, Auckland City Hospital.

	Prior to rapid treatment pathway Jan 2015–Dec 2016	Rapid treatment pathway Jan 2018–Dec 2019	P-value
New diagnosis of HIV	123	82	
Male	112 (91.1%)	70 (85.4%)	0.26 [#]
Age at diagnosis (median years, IQR)	38 (30–48)	40 (32–51)	0.73 [^]
Ethnicity			
NZ European	60 (48.8%)	31 (37.8%)	0.51 [*]
Māori	8 (6.5%)	6 (7.3%)	
Asian	22 (17.9%)	18 (22.0%)	
Pasifika peoples	8 (6.5%)	10 (12.2%)	
Other European	18 (14.6%)	9 (11.0%)	
South American	4 (3.3%)	5 (6.1%)	
Middle East/Africa	3 (2.4%)	3 (3.7%)	
CD4 count at diagnosis, median (IQR)	417x10 ⁶ /L (209–602x10 ⁶ /L)	372x10 ⁶ /L (197–528x10 ⁶ /L)	0.32 [^]
<200x10 ⁶ /L	30 (24%)	21 (26%)	
200–349x10 ⁶ /L	21 (17%)	13 (16%)	
350–499x10 ⁶ /L	31 (25%)	24 (29%)	
≥500x10 ⁶ /L	41(33%)	22 (27%)	
Unknown		2 (2%)	
Outcome			
Available for retention in care assessment [†]	104	67	
Retained in care	103 (99%)	66 (98.5%)	
Not retained in care	1 (1%)	1 (1.5%)	
Not available for retention in care assessment	19	15	
Transfers overseas [†]	14	13	
Deaths [†]	5	2	

PLHIV = people living with HIV; IQR = interquartile range

[#]Fisher's exact test

[^]Mann–Whitney U test

^{*}Chi-squared test

[†]The follow-up period for retention in care assessment, transfer overseas and deaths was 31 December 2020 for both groups

Table 2: Time from HIV *diagnosis* to HIV specialist care for PLHIV referred to the Infectious Diseases Service, Auckland City Hospital.

	Prior to rapid treatment pathway Jan 2015–Dec 2016, n=123	Rapid treatment pathway Jan 2018–Dec 2019, n=82	P-value
Time from diagnosis to first contact with community HIV team, median days (IQR)	10 (2–16)	7 (2–14)	0.36 [^]
Linked to care within 3 months of diagnosis	113/122 ^a (92.6%)	81/82 (99%)	0.053 [#]
Time from diagnosis to linkage to care, median days (IQR)	32 ^a (13–54)	17 (7–28)	<0.0001 [^]
Time from diagnosis (blood test taken) to referral to ID service, median days (IQR)	7 (1–13.5)	6 ^b (2–13)	0.91 [^]
Time from diagnosis (result available) to referral to ID service, median days (IQR)	3 ^c (0–10)	2 ^d (0–10)	0.8 [^]
Time from diagnosis to initiation of ART, median days (IQR)	68 ^e (44–133)	21 ^f (13–31)	<0.00001 [^]
Initiation of ART within 6 weeks of diagnosis	28/120 ^g (23.3%)	66/79 ^f (83.5%)	<0.0001 [#]
Initiation of ART within 3 months of diagnosis	78/120 ^g (65.0%)	77/79 ^f (97.5%)	<0.0001 [#]
Initiation of ART within 6 months of diagnosis	96/120 ^g (80.0%)	78/79 ^f (98.7%)	<0.0001 [#]
Time from diagnosis to first documentation of viral suppression, median days (IQR)	174 ^h (124–272)	85 ⁱ (63–104)	<0.0001 [^]
Viral suppression within 6 months of diagnosis	66/118 ^j (55.9%)	73/75 ⁱ (97.3%)	<0.0001 [#]

PLHIV = people living with HIV; IQR = interquartile range; ART = antiretroviral therapy

[#]Fisher's exact test

[^]Mann–Whitney U test

^an=122 (1 PLHIV transferred care before being seen)

^bn=81 (data not available for 1 PLHIV)

^cn=112 (data not available for 11 PLHIV)

^dn=77 (data not available for 5 PLHIV)

^en=118 (3 PLHIV transferred care before starting ART; 2 PLHIV didn't start ART but later transferred care)

^fn=79 (3 PLHIV transferred care before starting ART)

^gn=120 (3 PLHIV transferred care before starting ART)

^hn=117 (5 PLHIV transferred care before starting ART/achieving viral suppression; 1 PLHIV didn't start ART)

ⁱn=75 (7 PLHIV transferred care before starting ART/achieving viral suppression)

^jn=118 (5 PLHIV transferred care before starting ART/achieving viral suppression)

Table 3: Time from *referral* to HIV specialist care for PLHIV referred to the Infectious Diseases Service, Auckland City Hospital.

	Prior to rapid treatment pathway Jan 2015–Dec 2016, n=123	Rapid treatment pathway Jan 2018–Dec 2019, n=82	P-value
Time from referral to first contact with community HIV team, median days (IQR)	1 (0–2.5)	1 (0–1)	0.08 [#]
Time from referral to first specialist clinic appointment/ inpatient review, median days (IQR)	23 ^a (8–41)	8 (4–16)	<0.0001 [#]
Time from referral to initiation of ART, median days (IQR)	51 ^b (36–114)	12 ^c (7–20)	<0.00001 [#]
Initiation of ART within 6 weeks of referral	41/120 ^d (34.2%)	76/79 ^e (96.2%)	<0.0001 [^]
Time from referral to first documentation of viral suppression, median days (IQR)	161 ^f (117–272)	79 ^g (53–98)	<0.00001 [#]

PLHIV = people living with HIV; IQR = interquartile range; ART = antiretroviral therapy

[#]Mann-Whitney U test

[^]Fisher's exact test

^a n=122 (1 PLHIV transferred care before being seen)

^b n=118 (3 PLHIV transferred care before starting ART; 2 patients didn't start ART)

^c n=79 (3 PLHIV transferred care before starting ART)

^d n=120 (3 PLHIV transferred care before starting ART)

^e n=79 (3 PLHIV transferred care before starting ART)

^f n=117 (5 PLHIV transferred care before starting ART/achieving viral suppression; 1 PLHIV didn't start ART)

^g n=75 (7 PLHIV transferred care before starting ART/achieving viral suppression)