

**VENTILATOR WEANING PROGRAM  
WEANING OUTCOMES CY 2020 (n=225)**

	Barlow Main (n=137)	BRH@PIH (n=35)	BRH@VPH (n=53)	All Sites (n=225)
Weaned*	90 (66%)	23 (66%)	30 (57%)	143 (64%)
Ventilator Dependent	27 (20%)	9 (26%)	19 (36%)	55 (24%)
Died	20 (14%)	3 (8%)	4 (7%)	27 (12%)
Time to wean, days (MED, AVG)**	13 [4-89]; 20	14 [3-53]; 16	11 [5-61]; 15	12 [3-89]; 18
Days from wean to DC	23 [1-109]; 28	33 [6-92]; 41	26 [10-136]; 38	24 [1-136]; 32
Length of stay, days	41 [5-221]; 51	40 [8-179]; 59	40 [18-212]; 58	41 [5-221]; 54
Hemodialysis Patients	35 (26%)	5 (14%)	12 (23%)	52 (23%)
Post-COVID Patients	10 (7%)	4 (11%)	4 (8%)	18 (8%)
Discharge Disposition (live DC):	<b>n=117</b>	<b>n=32</b>	<b>n=49</b>	<b>n=198</b>
STH Hosp as inpatient	22 (19%)	5 (16%)	7 (14%)	34 (17%)
STH Hosp planned readmit	1 (< 1%)	0	0	1 (< 1%)
Home	14 (12%)	4 (12%)	5 (10%)	23 (12%)
Acute rehab facility	21 (18%)	1 (3%)	5 (10%)	27 (14%)
Sub-acute/SNF	57 (49%)	22 (69%)	32 (65%)	111 (56%)
Intermediate care facility	0	0	0	0
Home hospice	2 (2%)	0	0	2 (1%)
AMA	0	0	0	0

\* Weaned is defined as ventilator-free for at least one full calendar day prior to day of discharge \*\*Time to wean is tallied from day of admission through last day of ventilator support prior to discharge.

**Patient Characteristics on Admission to BRH**

Variable	Barlow Main (n=137)	BRH@PIH (n=35)	BRH@VPH (n=53)	All Sites (n=225)
Age, years (MED, AVG)	68 [18-104], 69	67 [26-90], 63	71 [21-94], 67	69 [18-104], 68
Gender, male	80 (58%)	22 (63%)	32 (60%)	134 (60%)
Transfer hospital LOS, days	19 [2-94], 24	24 [4-89], 28	19 [1-67], 21	20 [1-94], 24
Pressure injury ≥ stage II	109 (80%)	20 (57%)	48 (91%)	177 (79%)
Multiple pressure injuries	67 (49%)	10 (29%)	40 (75%)	117 (52%)

**WEANING OUTCOMES: Ventilator and Hemodialysis Patients**

	On HD at Admit (n=43)	First HD @ BRH (n=9) *	All HD Pts (n=52)	No HD (n=173)
Weaned	19 (44%)	2 (22%)	21 (40%)	122 (71%)
Vent Dependent	13 (30%)	2 (22%)	15 (29%)	40 (23%)
Died	11 (26%)	5 (56%)	16 (31%)	11 (6%)
Time to wean, days	14 [6-89], 26	56 AVG	18 [6-89], 29	12 [3-61], 16
Days from wean to DC	27 [2-105], 33	73 AVG	30 [2-105], 37	24 [1-136], 31
LOS, days	44 [8-212], 68	92 [28-180], 96	50 [8-212], 73	39 [5-221], 48
On Admission:				
Pressure injury ≥ stage II	41 (95%)	7 (78%)	48 (92%)	129 (75%)
Multiple pressure injuries	30 (70%)	3 (33%)	33 (63%)	84 490%)

\* Eight of nine patients with first HD at BRH were at Main Campus.

## WEANING OUTCOMES: Post-COVID Infection Patients

Variable	(n=18)
Age, years (MED, AVG)	67.5 [27-87], 67
Gender, male	13 (72%)
Transfer hospital LOS, days	39 [2-75]; 41
Pressure injury ≥ stage 2	15 (83%)
<i>Multiple pressure injuries</i>	12 (67%)
Weaning Outcomes:	
Weaned	15 (83%)
Ventilator Dependent	1 (6%)
Died	2 (11%)
Time to wean, days (MED, AVG)	19 [7-79]; 28
Days from wean to DC	29 [2-79]; 30
Length of stay, days	57 [5-92]; 54
Hemodialysis patients	4 (22%)

## DISCHARGE DISPOSITION (n=225)

All Sites	n (%)
Short-term acute hospital	34 (15%)
Short-term acute hospital - Planned	1 (< 1%)
Died	27 (12%)
Home	23 (10%)
Acute rehab facility	27 (12%)
Intermediate care facility	0 (0%)
AMA	0 (0%)
Hospice/Home Hospice	2 (1%)
Subacute/SNF	111 (49%)

One hundred seven (107) additional patients discharged during the year received invasive mechanical ventilation but were excluded from weaning outcome analysis for the following reasons:

- 25 patients were placed on mechanical ventilation after admission to Barlow. Investigation for preventable events may be of interest / indicated.
- 72 patients with no weaning attempts or were determined not to be weaning candidates (includes patients that were known to be chronically ventilated, patients diagnosed with neuromuscular diagnoses, and patients with very short LOS ≤ 7 days)
- 10 patients with goal of nocturnal ventilation or continued nocturnal ventilation
- Of these 107 patients, 15 (14%) were admitted post-COVID pneumonia infection
- Of these 107 patients, 33 (31%) were also treated with hemodialysis