

TABLE 1: Demographics, rehabilitation diagnosis, medical complications of pediatric patients with oncologic and hematologic diagnoses participating in Short-term Pediatric Rehabilitation Intensive Therapy (SPRINT)

	n (%)
Patient Demographics	
No. of patients	18
Gender	
Male	9 (50.0)
Female	9 (50.0)
Age, y	
1-4	10 (55.6)
5-8	2 (11.1)
9-12	2 (11.1)
13-21	4 (22.2)
Race	
White	8 (44.4)
Asian	3 (16.7)
Native American or Alaska Native	2 (11.1)
Black	1 (5.6)
Pacific Islander	1 (5.6)
Multiracial	1 (5.6)
Unknown	2 (11.1)
Ethnicity	
Non-Hispanic	11 (61.1)
Hispanic	1 (5.6)
Unknown	6 (33.3)
Home Vicinity from Hospital	
≤10 miles	2 (11.1)
11-50 miles	9 (50.0)
>50 miles	7 (38.9)
Within state	1 (5.6)
Out of state	4 (22.2)
Outside U.S.	2 (11.1)
Rehabilitation Diagnosis	
Generalized weakness (deconditioning)	18 (100.0)
Peripheral neuropathy	8 (44.4)
Ataxia	3 (16.7)
Hemiparesis	2 (11.1)
Quadriparesis	1 (5.6)
Paraparesis	1 (5.6)
Medical Complications Prior to SPRINT	
Systemic Infection (bacteremia, viremia, fungemia)	9 (50.0)
Cardiac (arrhythmia, endocarditis)	5 (27.8)
GI (intestinal rupture, pancreatitis, colitis, neurogenic bowel, pneumatosis intestinalis, cholangitis, GVHD)	6 (33.3)
GU (bladder rupture, neurogenic bladder, UTI, AKI)	3 (16.7)
Neurologic (seizure, hydrocephalus, encephalitis, PFS, meningitis)	8 (44.4)
Pulmonary (ARDS, pulmonary hemorrhage, PE, pneumonia, apnea, upper airway obstruction)	6 (33.3)
Death	1 (5.6)

GI = gastrointestinal; UTI = urinary tract infection; AKI = acute kidney injury; GVHD = graft versus host disease; GU = genitourinary; PFS = posterior fossa syndrome; ARDS = acute respiratory distress syndrome; PE = pulmonary embolus.

TABLE 2: Hematologic/oncologic diagnoses of pediatric patients and treatment received while participating in Short-term Pediatric Rehabilitation Intensive Therapy (SPRINT)

Diagnosis	n (%)	Treatment Phase	n	Days Since BMT	n
Leukemia	7 (38.9)	Consolidation	2	48	1
		Maintenance	1		
		Study Drug	1		
Lymphoma	7 (38.9)	DA-EPOCH-R	1		
CNS Tumor	6 (33.3)	Induction	4		
Sarcoma	1 (5.6)	Induction	1		
SCID	2 (11.1)			112, 176	2

BMT = bone marrow transplantation; DA-EPOCH-R = Dose-adjusted etoposide, prednisone, vincristine, cyclophosphamide, doxorubicin, and rituximab; CNS = central nervous system; SCID = Severe Combined Immunodeficiency

Table 3: PEDI caregiver assistance score change in pediatric patients with oncologic and hematologic diagnoses before and after participation in Short-term Pediatric Rehabilitation Intensive Therapy (SPRINT)

PEDI Domain	Pre-SPRINT		Post-SPRINT		<i>t</i>	<i>P</i>
	<i>Mean</i>	<i>SD</i>	<i>Mean</i>	<i>SD</i>		
Self-Care (n = 18)						
Eating	2.56	1.46	2.94	1.47	-2.36	0.030
Grooming	1.72	1.60	2.61	1.54	-2.95	0.009
Bathing	1.17	1.25	1.78	1.52	-3.34	0.004
Dressing Upper Body	1.83	1.30	2.61	1.29	-3.29	0.004
Dressing Lower Body	1.72	1.41	2.28	1.41	-3.01	0.008
Toileting	0.94	1.11	1.67	1.72	-3.01	0.008
Bladder Management	1.89	1.97	2.56	2.18	-2.13	0.048
Bowel Management	1.94	2.01	2.56	2.18	-2.27	0.037
Mobility (n = 18)						
Chair/Toilet Transfer	1.33	1.37	2.33	1.57	-4.12	0.001
Car Transfer	1.06	1.47	1.61	1.42	-3.01	0.008
Bed Mobility/Transfers	1.67	1.33	2.56	1.29	-4.19	0.001
Tub Transfers	0.78	1.26	1.56	1.65	-2.61	0.018
Indoor Locomotion	1.39	1.20	2.22	1.31	-3.22	0.005
Outdoor Locomotion	0.67	1.14	1.39	1.42	-2.85	0.011
Stairs	0.39	1.04	0.78	1.00	-3.29	0.004
Social Function (n = 7)						
Functional Comprehension	2.14	1.22	2.14	1.22	--	--
Functional Expression	1.00	0.58	1.57	0.54	-2.83	0.030
Joint Problem Solving	1.00	1.00	1.14	0.90	-1.00	0.356
Peer Play	1.29	0.49	1.29	0.49	--	--
Safety	1.86	1.86	2.00	1.73	-1.00	0.356

PEDI = Pediatric Evaluation of Disability Inventory

Table 4: Questionnaire responses by parents and patients before and after participating in Short-term Pediatric Rehabilitation Intensive Therapy (SPRINT)

Parent-Report (n = 11)		Never n (%)	Rarely n (%)	Sometimes n (%)	Often n (%)	Always n (%)
Tired	Pre-SPRINT	1 (9.1)	1 (9.1)	4 (36.4)	4 (36.4)	1 (9.1)
	Post-SPRINT	0 (0.0)	0 (0.0)	8 (72.7)	3 (27.3)	0 (0.0)
Sad	Pre-SPRINT	2 (18.2)	3 (27.3)	5 (45.5)	1 (9.1)	0 (0.0)
	Post-SPRINT	2 (18.2)	7 (63.6)	2 (18.2)	0 (0.0)	0 (0.0)
Nervous	Pre-SPRINT	2 (18.2)	5 (45.5)	3 (27.3)	1 (9.1)	0 (0.0)
	Post-SPRINT	4 (36.4)	4 (36.4)	2 (18.2)	1 (9.1)	0 (0.0)
Pain	Pre-SPRINT	3 (27.3)	3 (27.3)	2 (18.2)	2 (18.2)	1 (9.1)
	Post-SPRINT	5 (45.5)	2 (18.2)	2 (18.2)	2 (18.2)	0 (0.0)
Self-Report (n = 4)						
Tired	Pre-SPRINT	0 (0.0)	0 (0.0)	0 (0.0)	2 (50.0)	2 (50.0)
	Post-SPRINT	0 (0.0)	0 (0.0)	2 (50.0)	2 (50.0)	0 (0.0)
Sad	Pre-SPRINT	1 (25.0)	2 (50.0)	1 (25.0)	0 (0.0)	0 (0.0)
	Post-SPRINT	2 (50.0)	2 (50.0)	0 (0.0)	0 (0.0)	0 (0.0)
Nervous	Pre-SPRINT	3 (75.0)	1 (25.0)	0 (0.0)	0 (0.0)	0 (0.0)
	Post-SPRINT	2 (50.0)	1 (25.0)	1 (25.0)	0 (0.0)	0 (0.0)
Pain	Pre-SPRINT	1 (25.0)	1 (25.0)	1 (25.0)	0 (0.0)	1 (25.0)
	Post-SPRINT	2 (50.0)	0 (0.0)	2 (50.0)	0 (0.0)	0 (0.0)