Supplement file.1. Initial Competency framework

Quesu	onnaire Items	Not so good	Not helpful	
I. PEO	PLE			
Qualit	y			
1.	Length of diagnostic interval			
2.	First therapeutic intervention wait time			
3.	After hours cancer surgery			
4.	Access to Clinical trial participation			
5.	Sufficient multidisciplinary staff, expert subspecialists			
6.	Correct diagnosis			
7.	Time taken for the production of pathology reports			
8.	Protocol-adapted therapy			
9.	Drug availability			
10.	Interdisciplinary team meetings, Tumor boards			
11.	Hospital registry			
12.	Five-year overall/ Event free survival reporting			
13.	Treatment-related mortality documentation			
14.	Supportive/nutritional care guidelines		1	
15.	Fertility preservation for male/female		1	
16.	Maximize outpatient care		1	
17.	Reduce End-of-life care days spent in acute care		1	
18.	Standardization for accreditation			
Safety				
19.	Infection control team			
20.	Reduce the Number of Patient Transfers and Handoffs			
21.	Reduce ICU Admissions due to Neutropenic sepsis			
22.	Eradicate Potential/ Actual medication errors			
23.	Reduce Radiation exposure during follow-up care			
24.	Reduce clinical trial protocol violation			
25.	Utilize SCAMPs (Standardized clinical assessment and management plans)			
26.	Responsiveness to Parent/guardian perspective and experience			
Psycho	o-social support			
27.	Listen to what patients are saying.			
28.	Managing Procedural Pain, Nausea, and Neuropsychological Effects			
29.	Tragedy Control			
30.	School re-integration for children receiving cancer treatment			
31.	Applying a Developmental Perspective			
32.	Survivors reintegration into the community			
33.	1,5,5			
34.	Proactively engage society about what constitutes valuable care			
35.	Promoting Prevention System 2016 Quality Index			
36.	Care for the carers		<u> </u>	
37.	Strategies to stop incivility			
38.	Provision of treatment regardless of ability to pay			
Educa				
39.				
40.	Informed consents			
41.	Staff Professional development through life-long learning			
42.	Critical mass: training and retention of professionals			
43.	Implementation of innovative teaching tools, clinical guidelines, treatment			
ч <i></i> .	protocols, and continuing education programs			
44.	Educate general Pediatricians regarding hematology/oncology issues			
	Educate general Pediatricians regarding hematology/oncology issues Participate in initiatives that support subspecialty maintenance of certification.			

14				
	International Collaborative clinical trials			
	Population-based Cancer registry for etiologic research			
	1 1 1			
49.	49. Use principles of health informatics to Manage Information technologies			
50.				
51.				
52.	Parking and Garages			
	Places to Eat			
	Family Resource Center			
	Office of Patient Experience			
Innovati				
	Decide how and when should invest in new technology.			
	Encourage Tele-Health, remote care			
	Utilize digital Roadmap Builder			
	Big data			
	Implement Population risk stratification			
	Gene Therapy			
	Cancer immunotherapy			
	MIBG Therapy	ļ		
	Cancer Genetic Risk assessment			
65.	Precision Medicine			
Evaluati	ion & Monitring			
66.	Implementing the Cancer Care index CCI (a metric to document performance			
	improvement across a broad range of domains, in a given time frame, regardless			
	of cancer type)			
67.	Measure of Processes of Care (MPOC)			
68.	Monitoring of compliance			
	Root cause analysis team			
	Scorecards utilization			
71.	Annual independent audit			
	Articulate a concrete set of Sustainable development key performance indicators			
, 2.	on which all parties must report			
73	Public reporting			
	Mentor Resource usage : Energy – Materials – Water – Land			
74.				
	Lower Noise Levels			
	OFIT (Resource Allocation)			
	Keep operations in line with budgetary and strategic outcomes			
	Create Transparency for Drug Regimens, and Procurement policies			
	Transform cancer care from a high-cost to a high-value enterprise			
80.				
	- Radiology - Meeting rooms - Blood banks - Research - Physiotherapy)			
81.	1 0			
82.				
83.				
84.				
85.				
86.	Strategic, Sustainable purchasing			
87.				
	patients in Fundraising activities			
88.	Target the High income Countries (HICs) to provide initial funding to implement			
	and maintain the program			
89.	A •			
	Perverse incentives for overuse of medical resources, industry monopoly power		1	1
	over drug pricing, overly aggressive end-of-life care, and a fragmented health			
1	care system that lacks patient-centeredness			
91.				
	RSHIP			
LEADE				

92.	Physician Leaders should be involved from the beginning in planning and	
	implementation	
93.	Developing a mission statement which has to be inclusive for the Triple Bottom	
	Lines (TBLs); People, Profit, and Planet	
94.	Integrate People; i.e patients, medical students and residents, fellows, leaders in	
	medical education, other health care professionals, specialty bodies, governing	
	institutions and partner organizations, and international collaborators; all in one	
	theme of "Cancer Cure" as a Purpose	
95.	Create the Leadership Team	
96.	Advocacy voice on both internal and external levels.	
97.	Legal and regulatory compliance	
98.	Act as Clinical directorates	
99.	Improve global coordination, membership or affiliation with the Pediatric	
	Oncology international Groups	
100.	Regional/district-based health service delivery networks	
101.	Alliance with other Medical disciplines	
102.	Shuttle sheet (POGO ROADMAP)	
103.	Eligible survivors enrolled in After Care, Survivors care plan	
104.	Case coordinator	
105.	Referral and counter-referral systems	
106.	Keep Staff close to Patients	
107.	Engage civic organizations in planning and services	
108.	Intersectoral partnerships, merging of health sector and social services	

Supplement file.2 Competency framework

1	I. Safety Eradication of potential/ actual medication errors			
2	Infection control team			
3	Reduction of the number of patient transfers and handoffs			
4	Reduction of ICU admissions due to neutropenic sepsis			
5				
6	Utilization of SCAMPs (Standardized clinical assessment and management plans)			
7	Responsiveness to parent/guardian perspective and experience			
	II. Quality			
8	Maximization of outpatient care			
9	Length of diagnostic interval			
10	First therapeutic intervention wait time			
11	Sufficient multidisciplinary staff, tumor boards			
12	Protocol-adapted therapy			
13	Annual protocol review & update			
14	Drug availability			
15	Hospital registry			
16	Five-year overall/Event free survival reporting			
17	Treatment-related mortality documentation			
18				
	Supportive/nutritional care guidelines			
19	Fertility preservation for male/female			
20	Reduction of end-of-life care days spent in acute care			
21	III. Psycho-Social			
21	Listening to what patients are saying Management of precedured point neuropsychological effects			
22	Management of procedural pain, nausea, and neuropsychological effects Proactive tragedy control			
23	School re-integration for children receiving cancer treatment			
25	Increase of employee job satisfaction			
26	Provision of treatment regardless of ability to pay			
	IV. Education			
27	A formal program in an understandable language for patient/ family			
28	Informed consents			
29	Staff professional development through life-long learning			
30	Critical mass: training and retention of professionals.			
31	Implementation of innovative teaching tools, clinical guidelines,			
32	Education of general pediatricians regarding hematology/oncology issues			
33	Participation in initiatives that support subspecialty maintenance of certification.			
	V. Resource Allocation			
34	Early adoption strategy of palliative care.			
35	Creation of transparency for drug regimens, and procurement policies.			

36	Transformation of cancer care from a high-cost to a high-value enterprise.			
37				
38				
39				
40				
40 Strategie and sestamatic parentising 41 Inclusion of influential members of society,				
42	Targeting the high income countries (HICs)			
43	Incentives for care coordination, and non-monetary incentives			
44	Perverse incentives			
	Innovation			
45	Encouragement of tele-Health, remote care			
46	Utilization of digital roadmap builder.			
47	Big data			
48	Gene therapy			
49	Cancer immunotherapy.			
50	MIBG therapy.			
51	Cancer genetic risk assessment			
52	Precision medicine			
	Resources Stewardship			
53	International collaborative clinical trials			
54	Population-based cancer registry for etiologic research			
55	Development and validation of cancer control plans, national protocols			
56	Documentation of psychological counseling.			
55 Determination of psychological counsening. 57 Office of patient experience				
Evaluation & Monitoring				
58	Implementation of the cancer care index CCI			
59	Monitoring of compliance			
60	Root cause analysis team			
61	Scorecards utilization			
62	Implementation of environmental management system.			
63	Articulation of a concrete set of sustainable development key performance			
64	Public reporting			
Leadership				
65	Physician leaders involvement from the beginning in planning and implementation.			
66	Developing a mission statement which has to be inclusive			
67	Legal & regulatory compliance			
68	Creation of the leadership team.			
69	Defining the interrelation with pharmaceutical companies			
70	Improvement of global coordination, membership, or affiliation			
71	Regional/district-based health service delivery networks			
72	Referral and counter-referral systems.			
73	Intersectoral partnerships, merging the health sector with social services			

Supplement file. 3. Round II items

PEOPLE	Safety	
	1	Eradication of potential/actual medication errors
	2	Infection control team
	3	Reduction of ICU Admissions due to neutropenic sepsis
	Quality	
	4	Maximization of outpatient care
	5	First therapeutic intervention wait time
	6	Sufficient multidisciplinary staff, tumor boards
	7	Protocol-adapted therapy
	8	Drug availability
	9	Hospital registry
	10	Treatment-related mortality documentation
	11	Supportive/nutritional care guidelines
	Psycho-Social	
	12	Listening to what patients are saying
	13	Management of procedural pain, nausea, and neuropsychological effects
	14	School re-integration for children receiving cancer treatment
	15	Provision of treatment regardless of ability to pay
	Education	
	16	A formal program in an understandable language for patient/family
	17	Informed consents
	18	Staff professional development through life-long learning
	19	Implementation of innovative teaching tools, clinical guidelines
Profit	Innovation	
	20	Encouragement of Tele-health, remote care
	21	Big data
	22	Cancer immunotherapy
	23	Precision medicine
	Resource Allocation	
	24	Early adoption strategy of palliative care
	25	Creation of transparency for drug regimens, and procurement policies
	26	Transformation of cancer care from a high-cost to a high-value enterprise
	27	Inclusion of influential members of society
Planet	Resource Stewardship	International calleborative alinical trials
	28	International collaborative clinical trials Population-based cancer registry for etiologic research
	30	Development and validation of cancer control plans, national protocols
	Evaluation & Monitoring	
	31	Root cause analysis team
	32	Scorecards utilization
	33	Implementation of environmental management system

LEADERSHIP	
34	Physician leaders involvement from the beginning in planning and implementation
35	Developing a mission statement which has to be inclusive
36	Legal & regulatory compliance
37	Improvement of global coordination, membership or affiliation