



Levels of Care - Impact Assessment

Supportive Phase of Care

District Health Authority: _____

Hospital: _____

**Assessed Level of Care for Supportive
Phase of Care**

Completed by: _____

DHA designate: _____

Date: _____

Contact Information: _____

	Level of Care	Required			Recommended			Actions / Comments
		Full	Partial	No Congruence	Full	Partial	No Congruence	
		F	P	N	F	P	N	
Physical Facilities								
Safe, child friendly area to isolate child from nosocomial infections. [ED/ambulatory Care]	Basic							
Pediatric inpatient unit [may be shared] with isolation rooms.	Intermediate							
Pediatric inpatient unit with isolation rooms [dedicated pediatric unit preferred]; Intensive Care Unit able to stabilize critically ill child for transportation to Sub-Specialty Centre	Advanced							
In-patient and ambulatory care areas with appropriate isolation and reverse isolation capabilities	Sub-specialty							
Sub-Specialty care pediatric Emergency Department services with advanced pediatric appropriate resuscitation equipment available on-site 24 hours/day, 7 days per week								
Pediatric Intensive Care Unit; pediatric operating rooms.								
Personnel								
A family physician or pediatrician in the home community willing to manage the care of a child/adolescent with cancer or a serious hematological disorder which includes: Managing the side-effects or complications of oral chemotherapy. Able to recognize or have access to information to anticipate common chemotherapy-related toxicities (e.g. bleeds and febrile neutropenia).	Basic							
Health professionals able to provide pediatric care and monitoring such as immunizations, subcutaneous injections, insertion of nasogastric tube, GCSF administration and vital signs monitoring.								

	Level of Care	Required			Recommended			Actions / Comments
		Full	Partial	No Congruence	Full	Partial	No Congruence	
		F	P	N	F	P	N	
Personnel cont'd								
Physician or nurse with 24/7 coverage in emergency department to initiate treatment or stabilize patient and arrange for transfer as necessary.	Basic cont'd							
If pediatric palliative care is to be provided, a physician willing to provide care in consultation with local or sub-specialty experts as needed.								
Health and/or psychosocial professionals able to provide family support and assist with arrangements for transfer as required.								
Community Resources for Palliative Care in place								
Physicians [preferably a pediatrician if available in the district] able to manage the supportive care of a child with cancer or a serious hematologic disorder in liaison with a pediatric hematologist/ oncologist.	Intermediate							
Nurses with competencies to access and care for CVADs [available 24/7								
Nurses with APPHON/RROHPA established competencies to care for this patient population at the Intermediate level.*								
Access to social worker and/or psychologist able to provide applicable psychosocial support								
Dietician on site with applicable expertise to provide nutritional assessment, monitoring and support, including enteral feeds, in liaison with tertiary dietician.								
Pharmacists with expertise in supportive care guidelines								

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		F	P	N	F	P	N	
Personnel cont'd								
Access to physiotherapy, occupational therapist and respiratory therapist able to collaborate with tertiary colleagues to deliver pediatric care as required.	Intermediate cont'd							
Pediatricians prepared to manage the supportive care of a child with cancer or a serious hematologic disorder in liaison with a pediatric hematologist/ oncologist;	Advanced							
1.) treating low risk patients with febrile neutropenia in consultation with an infectious disease specialist and/or pediatric hematologist/ oncologist.								
2.) treating varicella zoster [with IV acyclovir] in consultation with an infectious disease specialist and a pediatric hematologist/oncologist.								
3.) preventing common complications and treating oncologic emergencies such as metabolic disturbances and hemorrhagic complications, etc.								
Pediatrician on call 24/7.								
Pediatric nurses with APPHON/RROHPA established competencies to care for this patient population at the advanced level.								
Able to provide one-on-one nursing support if needed [or arrange transfer].								
Social worker and/or psychologist on site able to provide applicable psychosocial support								
Dietician on site with applicable expertise able to provide nutritional assessment, monitoring and support, including parenteral feeds, in collaboration with Sub- Specialty								

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		F	P	N	F	P	N	
Centre.								
Personnel cont'd								
Access to physiotherapy, occupational therapy and respiratory therapist with pediatric experience.	Advanced cont'd							
Access to Child Life Specialist.								
Pediatric hematologist/oncologists** who develop a comprehensive treatment plan for each child/adolescent, available 24/7	Sub-Specialty							
Pediatric sub-specialists in, anesthesiology, endocrinology, gastroenterology, genetics, immunology, infectious diseases, nephrology, neurology, rheumatology, rehabilitation, psychiatry, surgery, pain management.								
Radiation oncologists with pediatric expertise.								
Pediatric nurses with APPHON/ROHPPA established competencies to care for this patient population at the subspecialty level.*								
Pediatric psychologists**								
Social workers** who have membership in the Association of Pediatric Oncology Social Workers (APOSW) and who have additional education and expertise in the management of children and adolescents with cancer or serious blood disorder								
Pediatric neuropsychologists								
School intervention/education support personnel								

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Personnel cont'd								
Clinical pharmacists** with expertise in anti-neoplastic agents and therapies for serious hematologic disorders	Sub-specialty cont'd							
Dieticians** with expertise in the nutritional requirements of children and adolescents with cancer or serious hematologic disorder								
Physical therapists**, occupational therapists** and respiratory therapists** with expertise in pediatric oncology and hematologic disorders								
Home health care professionals* with expertise in delivering health care to children and adolescents with cancer or serious hematologic disorder								
Child life specialists with pediatric hem/onc expertise.*								*Required for Holistic Care
Pharmacy								
Ready access to pharmacy with appropriate antibiotics, anti-emetics, pain medications and other drugs required for provision of supportive care and symptom management.	Basic							
Hospital pharmacy available on site with access to pediatric specific resuscitation drugs, level appropriate antineoplastic and supportive agents [and IV Phosphate and Magnesium]	Intermediate							
Able to provide pediatric total parenteral nutrition.	Advanced							
Medications for a broad range supportive care treatment.	Sub-specialty							
Equipment and Resources								
24/7 Emergency Department services with basic resuscitation equipment	Basic							

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Equipment and Resources cont'd								
Basic investigations to ensure child can be transferred safely.	Basic cont'd							
Able to obtain appropriate blood samples, including ability to collect micro-samples and peripheral venous blood from children and transport blood samples as appropriate; urine dipstick.								
24/7 onsite ED with pediatric appropriate resuscitation equipment, drugs and dosing, and an onsite physician; applicable supportive care guidelines/pre-printed orders	Intermediate							
24/7 onsite ED with advanced pediatric appropriate resuscitation equipment, an onsite physician, and access to an on call pediatrician 24/7;	Advanced							
Applicable supportive care guidelines/pre-printed orders.								
Services for dialysis for children and adolescents	Sub-specialty							
Access to services for cytopheresis and plasmapheresis								
Provision of psychosocial and supportive care as per treatment plan								
Pain management program and guidelines								
Rehabilitative services								
Palliative care/ bereavement follow-up services								
Long-term follow-up and transition services								

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Equipment and Resources cont'd								
Pediatric dental services	Sub-specialty cont'd							
Procedural deep and conscious sedation services provided by an anesthetist								
Lab/Diagnostic Imaging								
Not Applicable	Basic							
Guidelines readily available for processing malignant specimens found unexpectedly	Intermediate to Advanced							
Lab: CBC/diff, BUN, Na, K, Creatinine, glucose stat [within 1 hour] if needed; PT PTT, access to fg test results within two days if needed; Ca, Phos Mg, AST, ALT, bili T/D, amylase within 24 hours; creatinine clearance.	Intermediate							
Microbiology: aerobic and anaerobic bacterial cultures.								
Blood bank: FFP, CMV negative, irradiated PRBC onsite; access to cryo on site if caring for at risk patient; able to obtain CMV irradiated platelets within 24 hrs; access to appropriate blood product filters, factor concentrates, IVIG, VZIG.								
Diagnostic Imaging: equipment and personnel able to obtain and interpret pediatric ECGs, chest x-rays, abdominal films, and ultra-sound								
Able to transmit ECG images to Sub-Specialty centre.								
Diagnostic Imaging: nuclear medicine facilities for GFR [or creatinine clearance], WMEF [or echocardiogram].	Advanced							

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Lab/Diagnostic Imaging								
Experienced in pediatric CT scanning - able to adjust dosage for pediatric patients	Advanced cont'd							
Lab: access to bacterial culture on site and fungal culture results in a timely manner.								
Blood Bank: access to CMV irradiated platelets for transfusion with 12 hours.								
Diagnostic Imaging with pediatric expertise for US, CT scanning, nuclear medicine*, MRI*, angiography* and interventional radiology	Sub-specialty							
Pediatric expertise in audiology, EEG, and ECG testing and interpretation.								
Clinical laboratories with expertise in the assessment and diagnosis of pediatric hematology/oncology disorders including cell flow cytometry*, bone marrow aspirate and biopsy histological analysis**, immunohistochemistry*, cytogenetic analysis*, hemoglobinopathy diagnosis by protein and molecular methods*, specialized coagulation testing*, specialized analysis of immune function*, microbiology**/virology* services and clinical chemistry expertise in monitoring antibiotic, antineoplastic and immunosuppressant drug levels*, blood gas, routine chemistry, hematology and coagulation assays on small samples**, immediate interpretation of infectious organisms stains**, histopathology*.								

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Education/Certification								
Commitment to ongoing education related to pediatric hematology/oncology.	Basic to Advanced							
Tertiary education qualifications and maintenance of ongoing education; support of educational endeavors for other health professionals as needed	Sub-Specialty							
Communication links								
Identification of a primary contact able to forward necessary documentation to the tertiary centre Ready access to pediatrician referral and access to contact numbers at Sub Specialty centre for; ED, Clinic, Inpatient unit and Pediatric hematologist/oncologist	Basic and Intermediate							
Designated contact persons for dietician, child life specialist, social work and/or psychology.	Advanced							
Established community links. Designated contact persons for all involved disciplines; able to forward necessary communication to appropriate health professional in the community in timely manner	Sub-specialty							

* see "Practice Standards and Competencies for Nurses Providing Pediatric Cancer Care in Atlantic Canada (2007)" and "Practice Standards and Competencies for Nurses Providing Pediatric Non-malignant Hematology Care in Atlantic Canada (2008)."