NORTHWEST TERRITORIES	Stanton Territorial Hospital P.O. Box 10, 550 Byrne Road YELLOWKNIFE NT X1A 2N1	Document Name: Blood Component Storage Temperatures, Transportation Temperatures and Expiry Times	Document Number: TMM80200.1
Health and Social	TELLOWKNIFE NT XIA 2NI	Distribution:	Date Issued:
Services Authority		Transfusion Medicine Manual	03 January, 2018

*Taken directly from Canadian Society of Transfusion Medicine. (April 2017). Standards for Hospital Transfusion Services, Version 4

Appendix B: Blood Component Storage Temperatures, Trasportation Temperatures and Expiry Times

Note: Supplier's Circular of Information for storage and expiration shall take precedence over this table as appropriate.

Blood Component	Storage	Transport	Expiry	Additional Comments	CSA Z902-15 Clauses
Whole blood	1–6°C	1–10°C Max 24 hour	Dependent on bag used by the collecting facility.	most likely - Autologous donations	6.3.1 6.3.2
Red Blood Cell Components – Leukocyte Reduced (except as detailed below)	1–6°C	transport time 1–10°C Max 24 hour transport time	CPDA-1 - 35 days SAGM – 42 days	or as recommended by blood supplier	9.5.2.2 7.5.1.4 7.5.1.5 9.5.2.2
Red cells-Washed	1–6°C	1–10°C Max 24 hour transport time	7 days - if prepared by a Health Canada approved closed system 24 hours – if prepared in in an open system	or as recommended by blood supplier	7.5.3.4 9.5.2.2
Red cells-Frozen	temperature dependent on cryoprotectant	keep frozen	10 years	the expiration time may be extended in the case of a rare phenotype beyond 10 years with the approval of the Medical Director	7.5.2.8
Red cells-Thawed (previously frozen)	1–6°C	1–10°C Max 24 hour transport time	24 hours	or as recommended by blood supplier	7.5.2.9 9.5.2.2

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Blood Component	Storage	Transport	Expiry	Additional Comments	CSA Z902-15 Clauses
Red Blood Cells- Rejuvenated	1–6°C frozen at appropriate	1–10°C Max 24 hour transport time	24 hours	the expiration time may be extended if a system licensed by Health Canada	7.5.5.2 9.5.2.2
Platelets and	temperature 20-24°C	20–24°C	7 days	is used gentle agitation except	7.7.5
Platelet-pheresis		(cessation of agitation maximum 24 hrs)		during transport	9.5.2.3 7.11.4
Pooled platelets (Open system)	20–24°C	20–24°C	4 hours	gentle agitation except during transport	7.11.3 9.5.2.3
Granulocytes	20–24°C	20–24°C	24 hours from end of collection	without agitation	7.8.2 9.5.2.3
Frozen Plasma	Less than or equal to -18°C	keep frozen	12 months		7.6.2.2 9.5.2.3
Apheresis Fresh Frozen Plasma	Less than or equal to -18°C	keep frozen	12 months		7.6.2.1 9.5.2.3

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Note: Supplier's Circular of Information for storage and expiration shall take precedence over this table as appropriate.

Blood Component	Storage	Transport	Expiry	Additional Comments	CSA Z902-15 Clauses
Frozen Plasma (after thawed)	1–6°C	1–6°C	5 days if collected and maintained in a closed system 24h if system has been open at any time since time of collection or at a transfusion facility	thaw at 30 – 37°C or use an approved microwave device	7.6.2.3 9.5.2.2
Apheresis Fresh Frozen Plasma (after thawed)	1–6°C	1–6°C	24 hours	thaw at 30 – 37°C or use an approved microwave device	7.6.2.3 9.5.2.2
Cryosupernatant plasma	Less than or equal to18°C	keep frozen	12 months		7.6.4.3 9.5.2.3

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Note: Supplier's Circular of Information for storage and expiration shall take precedence over this table as appropriate.

Blood Component	Storage	Transport	Expiry	Additional Comments	CSA Z902-15 Clauses
Cryosupernatant	1–6°C	1-6°C	5 days if collected and	thaw at 30 – 37°C or use	7.6.4.4
plasma (after thawed)			maintained in a closed	an approved microwave	7.6.4.5
			system	device	9.5.2.2
			24h if system has been		
			open at any time since		
			time of collection or at a		
			transfusion facility		
Cryoprecipitate	Less than or equal	keep frozen	12 months		7.6.3.1
	to 18°C				9.5.2.3
Cryoprecipitate(after	20-24°C	20–24°C	24 hours if collected and	thaw at 30 – 37°C or use	7.6.3.3
thawed)			maintained in a closed	an approved microwave	7.6.3.4
			system	device	9.5.2.3
			4 hours if system has		
			been open at any time		
			since time of collection		
			or at a TS as in pooling		

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Blood Component	Storage	Transport	Expiry	Additional Comments	CSA Z902-15 Clauses
Irradiated blood	Refer to product	Refer to	Red Cells may be		7.12.6
components	category above	product	irradiated up to 28 days		
		category	post collection.		NAC
		above	Irradiated red cells shall		Recommendations
			be transfused as soon		2017
			as possible, preferably		
			within 14 days after		
			irradiation or within 28		
			days after the unit was		
			collected.		
			A shorter expiry date		
			may apply to irradiated		
			blood components		
			intended for transfusion		
			of neonates, follow		
			facility irradiation policy		

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