



PROVINCIAL STANDARDS & GUIDELINES

VA Referrals & Transfers: Guiding Principles, Resource Lists & Algorithms

Updated: January 2016

Vascular Access Referrals and Transfers

This document describes guiding principles and recommended referral and transfer processes between and within BC's Health Authorities (HAs) for vascular access (VA) creations and/or resolution of VA problems.

In the majority of cases, the Vascular Access Nurses/Coordinators from the sending and receiving sites will assist in coordinating the transfer or, if after hours or on weekends, will be notified of the transfer.

Guiding Principles

1. Proactive systems will be place in each HA to identify patients requiring AVF/AVG creations and for creations to occur in a timely manner.
2. Patients requiring VA creations or VA interventions for problem accesses will be cared for as close to their home community as possible.
3. For patients who must transfer outside their home community/HA, (1) the number of trips and length of time outside their home community/HA will be minimized; and (2) the timeliness of service will be maximized through appropriate system referrals.
4. Prior to transferring out, the sending site confirms that all required resources will be available at the receiving site (e.g., pre-admission clinic, surgeon, OR time, radiology time, HD space and/or HD inpatient bed).

Surgical procedures:

- a. Sending nephrologist orders the consult (and surgery as required).
- b. Sending site or sending nephrologist makes arrangements with the receiving site VA

Clinic/surgeon for surgical consult (and surgery as required).

- c. Nephrology coverage is arranged by:
 - Patient Transport Network (PTN) if inpatient to inpatient transfer.
 - Receiving site VA Clinic/surgeon in all other cases.
- d. If hemodialysis is required during visit:
 - Sending site Charge RN arranges with receiving site Charge RN.
- e. If inpatient bed is required:
 - Patient Transport Network (PTN) arranges if inpatient to inpatient transfer.
 - Receiving site VA Clinic/surgeon arranges in all other cases.
- f. Transportation is arranged by:
 - Patient Transport Network (PTN) if inpatient to inpatient transfer.
 - Receiving site VA Clinic/surgeon in all other cases.

Radiological procedures:

- a. Sending nephrologist orders the procedure (e.g., angioplasty).
- b. Sending site or sending nephrologist makes arrangements with the receiving site VA Clinic/radiology for radiology consult (and procedure as required).
- c. Nephrology coverage is arranged by:
 - Patient Transport Network (PTN) if inpatient to inpatient transfer.
 - Receiving site VA Clinic/radiologist in all other cases.
- d. If HD is required during visit:
 - Sending site Charge RN arranges with receiving site Charge RN.
- e. If inpatient bed is required:
 - Patient Transport Network (PTN) arranges if inpatient to inpatient transfer.

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- Receiving site VA Clinic/radiologist arranges in all other cases.
- f. Transportation is arranged by:
- Patient Transport Network (PTN) if inpatient to inpatient transfer.
 - Receiving site VA Clinic/radiologist in all other cases.
5. Clinical and transfer related information will be documented in PROMIS by the sending site and will be available to the receiving site when a patient is transferred.
6. Acceptance of patients at receiving sites will depend upon the service capacity of individual sites (procedure, resource, and expertise).

Current VA service capacity in BC's in-centre units is listed on Table 1.

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Table 1: Current Vascular Access Service Capacity, In-Centre Units

	In-Centre Unit	Vascular Surgeon(s)	Interventional Radiologist(s)	Current Service Capacity
Interior Health Authority	Kelowna	Y	Y	All types of VA situations are managed in house; no patients or procedures referred out.
	Royal Island (Kamloops)	Y	Y	All types of VA situations are managed in house; Occasional consults sent to St Pauls and KGH.
	Penticton	N	Y	All radiology VA issues are sent to KGH to be managed. TCCs are inserted at PRH but AVF/AVGs are created and managed at KGH
	Kootenay Boundary (Trail)	N	N	All VA creations, revisions and problems are referred to KGH, Foothills or Vancouver, depending upon patient preference.
Fraser Health Authority	Royal Columbian	Y	Y	All types of VA situations are managed in house; no patients or procedures referred out.
	Surrey Memorial	Y	Y	All types of VA situations are managed in house; no patients or procedures referred out.
	Abbotsford	Y	Y	All types of VA situations are managed in house; no patients or procedures referred out.

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	In-Centre Unit	Vascular Surgeon(s)	Interventional Radiologist(s)	Current Service Capacity
Vancouver Coastal Health	Vancouver General	Y	Y	All types of VA situations are managed in house; no patients or procedures referred out.
	St Paul's	Y	Y	All types of VA situations are managed in house; no patients or procedures referred out.
Provincial Health Services	BC Children's	Y	Y	All types of VA situations are managed in house; no patients or procedures referred out.
Vancouver Island Health Authority	Royal Jubilee	Y	Y	All types of VA situations are managed in house; no patients or procedures referred out.
	Nanaimo	N	Y	Only catheter insertions done, all other procedures and patients referred to Royal Jubilee Hospital
Northern Health Authority	University Hospital of Northern BC (Prince George)	Y	N (1 radiologist with interest in VA available 1 wk per mo; new full-time recruit in progress)	<p>Most VA creations and revisions done in-house; refer to Vancouver if very complex, limited access areas, &/or anticipate need for leg graft.</p> <p>Fistulograms and uncomplicated angioplasties done in-house if radiologist available; refer urgent cases to Vancouver if radiologist not available.</p> <p>Patients from Terrace and Ft St John are referred to UHNBC or seen on outreach by UHNBC team.</p>

Appendices:

1. BC Vascular Access Resource List
2. Algorithms for:
 - New Vascular Access Creations
 - Problem Accesses — Radiology Referral
 - Problem Accesses — Surgery Referral

Appendix 1: BC Vascular Access Resource List

VA Coordinators/Nurses

HA	First Name	Last Name	Telephone	Pager/Cell	E-Mail
IHA	Danielle	McLaren	250-862-4189	250-718-1643	Danielle.mclaren@interiorhealth.ca
FHA	Mirita	Zerr	604-587-7673, x 769363	604-366-1306	mirita.zerr@fraserhealth.ca
VCH/VGH	Tomas	Skala	604-875-4181 or 604- 875-4111, x 66509	604 632-2766	Tomas.Skala@vch.ca
VCH/PHC	Rick	Luscombe	604- 682-2344, x 62421	778-828-9985	rluscombe@providencehealth.bc.ca
VIHA	Gillian	Cain	250-370-8092		gillian.cain@viha.ca
NHA	Deidra	Goodacre	250-649-7087		Deidra.Goodacre@northernhealth.ca
PHSA (BCCH)	Lori	Paille	604-875-3248	604-875-4200, x 2447	lpaille@cw.bc.ca

VA Clinics

HA	First Name	Last Name
IHA	Contact VA Coordinator (VA Clinics are in surgeon's offices)	250-862-4189 or 250-718-1643 (cell)
FHA	Surrey Memorial (Jim Pattison Centre) Royal Columbian Abbotsford Regional	604- 587-7640 (VA Desk)
VCH/VGH	Vancouver General	604-875-4111, loc 63138
VCH/PHC	St Paul's	604-682-2344, loc 62421
VIHA	Contact VA Coordinator at Royal Jubilee (VA Coordinator is the contact for both the Royal Jubilee and Nanaimo clinics)	250-370-8290
NHA	University Hospital of Northern BC (Prince George)	250-649-7087

Hemodialysis Arrangements

HA	HD Centre	Contact	Telephone
IHA	Kelowna	On call nephrol & HD Charge RN	250-862-4345; ask to page
	Penticton	On call nephrol & HD Charge RN	250-492-9059
	Royal Inland	On call nephrol & HD charge RN	250-314-2849
	Trail	On call nephrol & HD charge RN	250-364-3450
FHA	Royal Columbian	On call nephrol & HD Charge RN	604-520-4582
	Surrey	On call nephrol & HD Charge RN	604-585-5923
	Abbotsford	On call nephrol & HD Charge RN	604-851-4700 loc 646183
VCH/VGH	Van General	HD Charge RN	604-875-4111, loc 63007
VCH/SPH	St Paul's	HD Charge RN	604-806-8453
VIHA	Royal Jubilee	On call nephrol & HD Charge RN	250-370-8290
	Nanaimo	On call nephrol & HD Charge RN	250-755-6290 ext 52823
NHA	University Hospital of Northern BC (Prince George)	HD Charge RN	250-565-2533
PHSA	BC Children's	HD Charge RN	604-875-3248

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Inpatient Bed Arrangements

Patient Transport Network (inpatient to inpatient transfers)
Lower Mainland: 604-215-5911; Rest of BC: 1-866-233-2337

Nephrologists

See BCPRA web site for listing www.bcrenalagency.ca

VA Surgeons

HA	HD Centre	Last Name	First Name	Telephone	Pager/Cell
IHA	KGH	Harris	Jeremy	250-762-7731	250-862-4000 ask to page
	KGH	Mostowy	Stephan	250-762-7731	250-862-4000 ask to page
	KGH	Pasenau	Jeff	250-762-7731	250-862-4000 ask to page
	KGH	Lawlor	Kirk	250-762-7731	250-862-4000 ask to page
	RIH	Azad	Aristotle		250-374-5111 ask to page
FHA	RCH/SMH	Dunn	Jeremy	604-544-8040	
	ARH/SMH	Smith	Robert Matthew (Matt)	604-888-7505	
	ARH/SMH	Ginting	Nadra	604-888-7505	
	RCH/SMH	Kazemi	Kamyar	604-521-3917	
	RCH/SMH	Toppin	Dennis	604-525-6232	
VGH	VGH	Baxter	Keith	604-875-5538	
	VGH	Gagnon	Joel	604-875-5819	
	VGH	Taylor	David C	604-875-5540	
	VGH	Chen	Jerry C	604-875-5535	
	VGH	Salvian	Anthony J	604-874-0532	
SPH	SPH	Reid	John David		173111
	SPH	MacDonald	Peter Shaun		54721 (int)
	SPH	Sidhu	Ravi		54909 (int)
VIHA	RJH	Kuechler	Peter	250-984-4421	250-883-6133
	RJH	Robinson	Matt	250-298-1170	250-507-5069
	RJH	Lee	Shung	250-220-8931	250-415-3969
NHA	PGRH	Lokanathan	Ramesh	250-561-2700	250-561-6127
	PGRH	Palerme	Louie	250-562-3396	
PHSA	BCCH	LeBlanc	Jacques	604-875-2161	
	BCCH	Campbell	Andrew	604-875-2161	

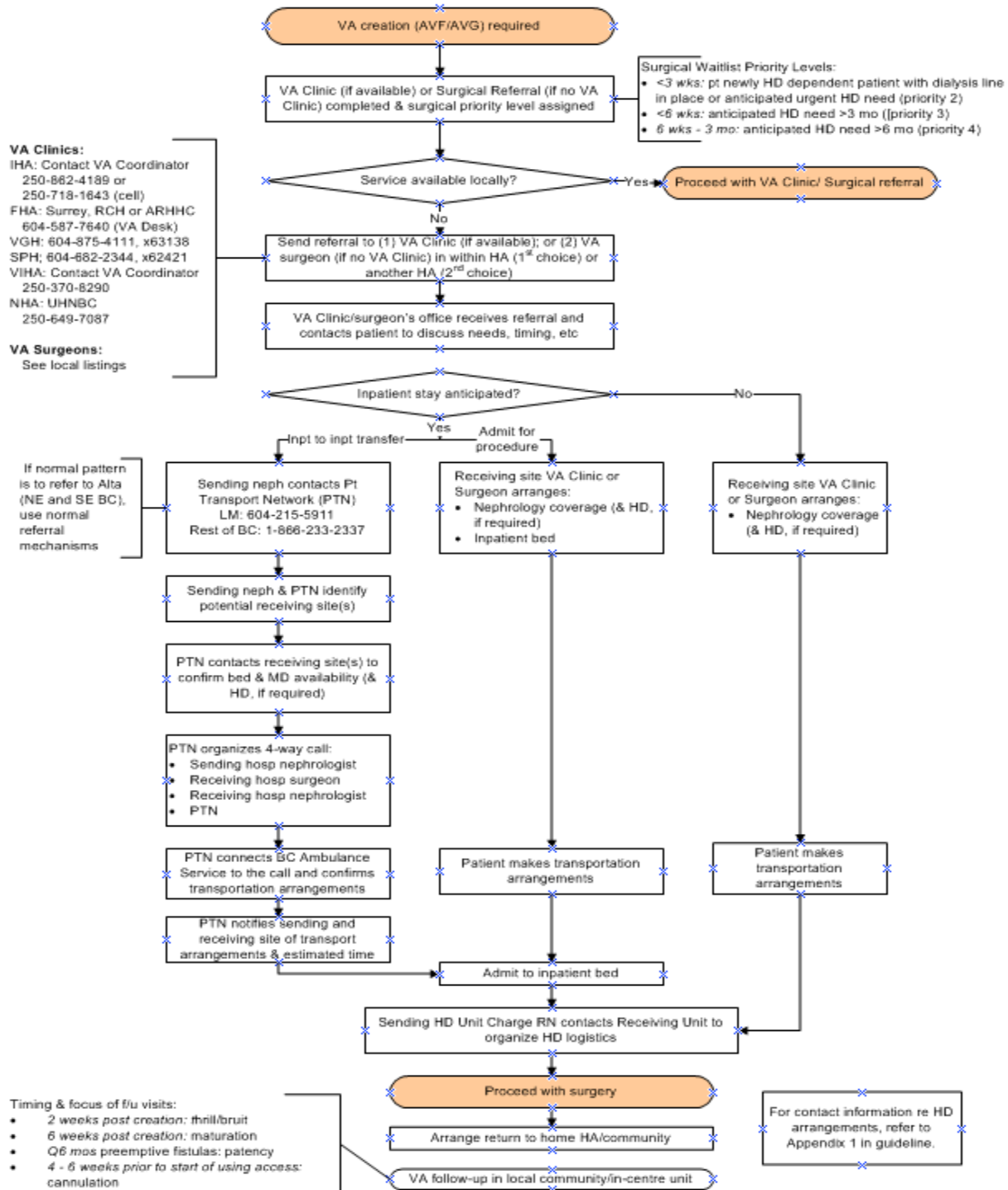
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Appendix 1: BC Vascular Access Resource List

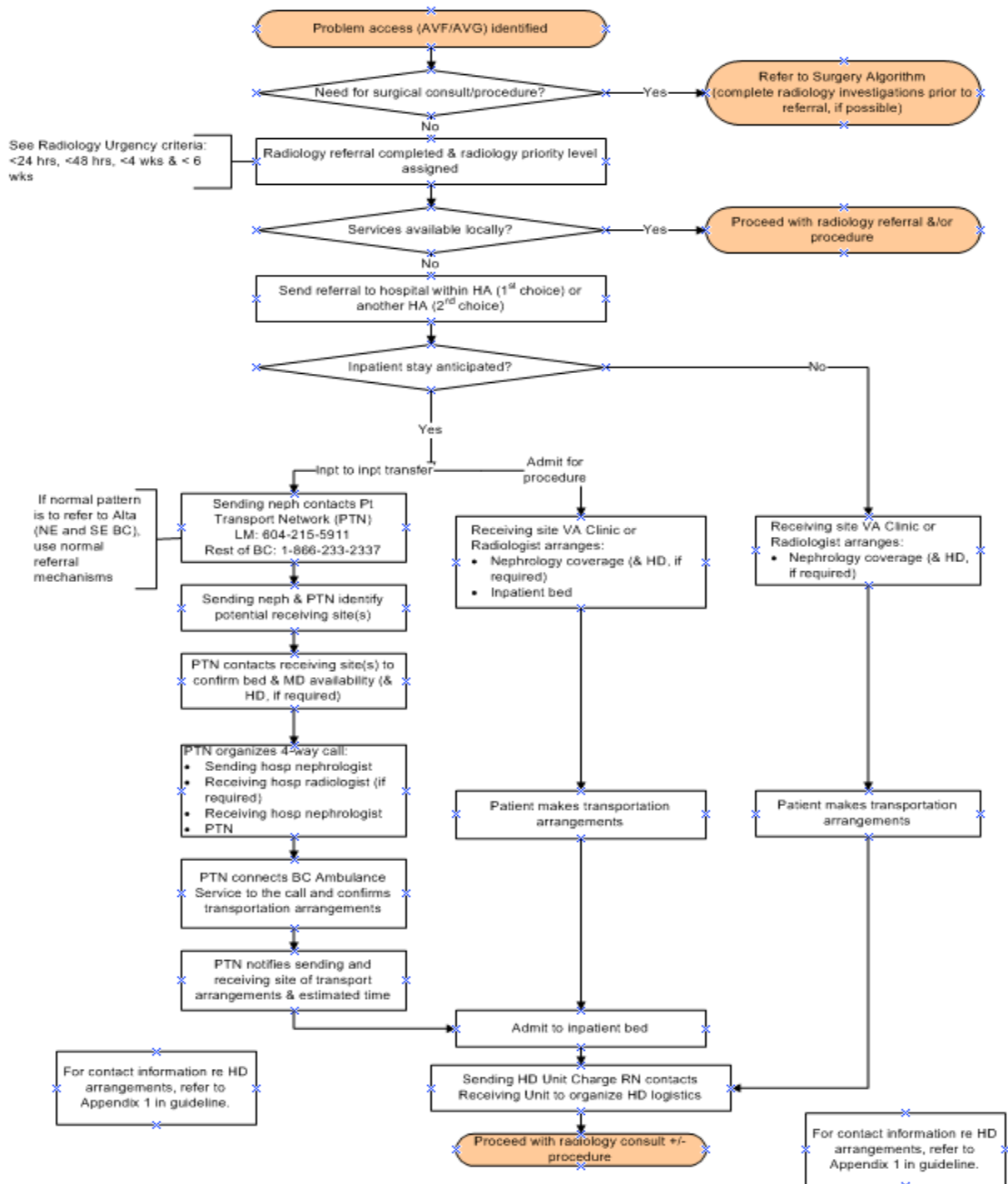
VA Interventional Radiologists

HA	HD Centre	Last Name	First Name	Telephone
IHA	KGH	Kurkjian	Paul	250-862-4454 ask to page
	KGH	Tonogai	Wayne	250-862-4454 ask to page
	KGH	Wall	Timothy	250-862-4454 ask to page
	KGH	Cairns	Brooke	250-862-4454 ask to page
	PRH	Terriff	Blake	250-492-4000 loc2411
	RIH	Fache	Steve	250-314-2260
FHA	SMH	Eriksen	Guy	604-588-3305
	SMH	Coish	Don	604-588-3305
	SMH	Tregobov	Earl	604-588-3305
	SMH	Mahajan	Ashish	604-588-3305
	RCH	Best	Andrew	604-520-4266
	RCH	Halkier	Brad	604-520-4266
	RCH	Siu	William	604-520-4266
	RCH	VanWiltburg	Robert	604-520-4266
	Abbotsford	Ravindran	Aravindhan	604-859-8998
	Abbotsford	Meister	Mark	
	Abbotsford	Lee	Emile	
	Abbotsford	Lee	Mark	
VCH/VGH	VGH	Legiehn	Gerald M	604-875 4111 loc.63711
	VGH	Morris	Chris	604-875 4111 loc.63016
	VGH	Munk	Peter	604-875 4111 loc.63735
	VGH	Liu	David	
	VGH	Klass	Darren	
	VGH	Machan	Lindsay	
	VGH	Ho	Stephen	604-875 5253
VCH/SPH	SPH	Clement	Jason	604-682-2344 loc 65076
	SPH	Fenton	David	604-682-2344 loc 65076
	SPH	Martin	Michael	604-682-2344 loc 65076
VIHA	RJH/Vic Gen	Greek	Shane	
	RJH/Vic Gen	Weir	Ian	
	RJH/Vic Gen	Connell	Doug	
	RJH/Vic Gen	Huk	Mike	
	RJH/Vic Gen	Sobkin	Paul	
	RJH/Vic Gen	Hodgins	Walt	
	NRGH	Barberie	John	
	NRGH	Trepanier	Paul	
NHA	UHNBC	Huk	Mike	1 d/wk (from VIHA)
PHSA	BCCH	Heran	Maraj (Raj)	
	BCCH	Robinson	Ashley	

Algorithm 1: New Vascular Access Creation



Algorithm 2: Problem Accesses- Radiology Referral



Algorithm 3: Problem Accesses- Surgery Referral

