

# Enhanced Recovery After Surgery (ERAS) for Spine Anterior Cervical Discectomy and Fusion (ACDF) 1 or 2 Level

# **Site Applicability**

Vancouver General Hospital

# **Pathway Patient Goals**

**Overall Patient Goals:** 

Patient will recover from surgery with an expected 1 day length of stay (LOS) and experience a safe discharge home.

#### Overall ERAS Goals:

- ↓ stress response to surgery
- Improve patient experience
- ↓ complications and LOS

### Specific ERAS Goals:

- 1. Gum chewing x 15 60 minutes while awake, several times/day
- 2. POD 0 onwards: regular diet
- 3. Discontinue CVC POD 1
- 4. Discontinue indwelling urinary catheter at 06:00 POD 1 (or earlier if able)
- 5. Saline lock IV POD 1 or IV at TKVO if on Patient Controlled Analgesia when drinking greater than or equal to 600mL/12hr
- 6. Capillary Blood Glucose TID and HS and sliding scale insulin as ordered. If patient non-diabetic and all glucometer readings are less than 8.1mmol/Lx24 hrs, may discontinue glucometer
- 7. Ondansetron 4mg IV Q8H X 3 doses. First dose 8 hours after intra-op dose at 22:00 POD 0.
- 8. Mobility goals:
  - POD 0: bathroom as tolerated; Walking 50m X 2 (with PT & RN)
  - POD 1: bathroom, sitting up for minimum 2 meals; Walking 50m X 2 (with PT & RN)
  - POD 2: bathroom, sitting up for 2-3 meals; Walking 100m X2 (with PT & RN); stairs with PT

### **Inclusion Criteria**

Elective patients undergoing Spine Anterior Cervical Discectomy and Fusion for 1 or 2 levels.

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# **Home Discharge Criteria**

Patients will be deemed ready for discharge when cleared medically by the Spine Physician (i.e. incision healing, pain controlled, post-operative x-ray completed and reviewed, and medically stable). Patient will be discharged by Physiotherapy if goals for functional mobility met.

Patient will be discharged by Occupational Therapy if goals of Activities of Daily Living met.

### **Instructions**

- 1. Review pathway once per shift for patient care goals and expected outcomes (indicated in **bold**)
- 2. Do not document on this pathway, complete documentation in the Electronic Health Record (Cerner) or paper chart as per policy

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Day of Surgery (Post-op Day 0)	
Category	Expected Outcomes
Safety	Complete Beside safety checklist
Fall Risk	Complete Morse Falls Scale as per Falls & Injury Prevention Guideline
	(D-00-07-30033)
	Not at risk: reviewed & no concerns
Neuro	<ul> <li>Complete delirium assessment as per Delirium: Screening,</li> </ul>
	Assessment and Management (CAM) DST (BCD-11-07-40081) or
	Intensive Care Delirium Screening Checklist
	Alert & Oriented x 3, speech clear, appropriate to situation, intact
	protective reflexes
	Calm & cooperative with care
	Anxiety level acceptable to patient
	No evidence of delirium
	Minimum 4-6 hours of uninterrupted sleep
Motor/Sensory	Complete ISNCSCI assessment as ordered
	Notify spine surgeon of NEW or INCREASED DEFICIT
	<ul> <li>Motor/sensory assessment within normal limits or patient's</li> </ul>
	baseline
Pain	Complete Pain assessment as per Pain Assessment and
	Documentation Standards (VCH.VA.0203)
	Review pain management, breakthrough doses, oral
	medications and side effects with patient
	<ul> <li>Provide teaching pamphlets to patient "Pain Control after Surgery"</li> </ul>
	Pain level less than 4 OR acceptable to patient and does not
	preventparticipation in mobility or ADLs
Respiratory	Assess RR & SS as per Pain Assessment and Documentation
	Standards (VCH.VA.0203) while receiving IV opioid
	Encourage deep breathing and coughing exercises Q1H while awake
	(ICOUGH)
	Easy, regular respirations. Breath sounds clear. No cough, or
	cyanosis. SpO2 equal or greater than 94%
Cardiovascular	VS as per Vital signs and observation: Post-op monitoring DST (D-00-
Carulovasculai	<ul> <li>VS as per Vital signs and observation: Post-op monitoring DST (D-00- 07-30113)</li> </ul>
	<ul> <li>Sequential Compression Device (SCD) to both legs x 24 hours post-op</li> </ul>
	(remove Q shift x 20 minutes)
	IV fluids as per orders
	<ul> <li>Complete IV/CVC site(s) assessment as per IV Therapy, Peripheral:</li> </ul>
	Insertion, Care and Maintenance DST (BD-00-12-40080) or Non-
	Tunneled Central Venous Catheter (NT-CVC) – Basic Care and
	Maintenance DST (BD-00-12-40045)
	Heart rate regular, capillary refill equal or less than 3 sec, no
	pitting edema, no calftenderness, normal skin turgor
	VS within normal limits
	No evidence of DVT
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Anemia	Review estimated OR blood loss and document
	Notify spine resident if hgb less than 80 g/L or drops by equal or
	greater than 20 g/L from
	baseline, or if patient symptomatic
	No evidence of bleeding (blood loss should not exceed 350mL/12
	hours)
	No symptoms of anemia (dizziness, hypotension, weak/rapid pulse,
	delirium, nausea and vomiting)
GI	Assess PONV Q4H as per Pain Assessment and Documentation
	Standards (VCH.VA.0203) and document
	Capillary Blood Glucose (CBG) assessed as ordered
	Perform swallowing screen if indicated –refer to <u>Swallow Screening</u>
	for Dysphagia (D-00-13-30289)
	Gum chewing for 15 minutes when awake
	Patient received scheduled ondansetron as per PowerPlan (first dose)
	administered 8 hours after intra-op dose)
	No nausea and vomiting during shift
	Assess and document BM
	Bowel sounds present, abdomen soft with no distension or pain
	and flatus passed
	Patient states PONV is controlled
	No swallowing issues identified
	Tolerating equal or greater than 75% of regular diet
GU	Review OR/PACU fluid balance and document
	Assess urine output Q1H x 24 hours and document
	Clear pumps and total intake and output at 06:00 and 18:00
	and document
	Pericare completed Q shift
	Night shift to remove Foley catheter at 0600. If Foley not removed,
	provide rationale
	No bladder distension, urine clear, amber and sufficient quantity
	(equal of greater than 0.5mL/kg/hour)
Skin and Wound	Complete skin assessment as per Braden Risk and Skin Assessment
	(Adult) D-00-12-30386.pdf (healthcarebc.ca)
	No evidence of dural leak
	Surgical site dressing dry and intact (Change dressing 72 hours post-
	op or sooner if saturated)
	Skin warm, dry and intact. Skin colour normal. Mucous membranes
	pink and moist
Hygiene	Assist with Hygiene: Oral / Bedside wash / Bed Bath as necessary
	, ,
	Patient tolerates simple self-care activities (oral hygiene, pericare,

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Functional Mobility	<ul> <li>Teach spine mobility precautions (i.e. spine neutral) and active log roll technique</li> <li>RN may initiate active mobilization as per post-op orders IF patient can tolerate and no neurological deficit present</li> <li>HOB elevated as tolerated</li> <li>Leg exercises every hour while in bed</li> <li>If orthosis ordered, confirm Allied Health aware of need to fit and/or educate</li> <li>Assess Mobilization and document         <ul> <li>Log rolling assessment (unable, with assist, or independent)</li> <li>Lying ← → sitting assessment (unable, with assist, or independent)</li> <li>Sitting ← → standing assessment (unable, with assist, or independent)</li> </ul> </li> <li>PT Assess ambulation: ability to walk 50 m; use of equipment/aid         <ul> <li>Stairs (unable, with assist/equipment, or independent; railing)</li> <li>Refer to PT initial assessment analysis &amp; plan</li> </ul> </li> <li>Up to chair for meals as tolerated</li> <li>Walking to bathroom as tolerated</li> <li>Mobility Goal: walk 50 m X 2 (once with PT &amp; once with nursing/family)</li> <li>Safe, reliable independent functional mobility achieved</li> <li>Patient turning Q2-3H with assistance, while maintaining neutral</li> </ul>
ADL	cervical spine     Reinforce philosophy of care regarding "early
	activation/rehabilitation"
Psychosocial	No psychosocial issues identified
Med Management	<ul> <li>No issues identified with medications patient taking pre-hospital (Medication Reconciliation &amp; Best Possible Medication History completed)</li> </ul>
Teaching & Discharge Planning	
ERAS Booklet	
<ul> <li>Patient has booklet at be</li> </ul>	
<ul> <li>Patient is aware of daily</li> </ul>	
<ul> <li>Reviewed and reinforce</li> </ul>	d pain management

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Post-op Day 1	
Category	Expected Outcomes
Safety	Beside safety checklist completed
Fall Risk	<ul> <li>Review Morse Falls Scale as per Falls &amp; Injury Prevention Guideline (D-00-07-30033)</li> <li>Not at risk: reviewed &amp; no concerns</li> </ul>
Neuro	<ul> <li>Complete delirium assessment as per Delirium: Screening,         Assessment and Management (CAM) DST (BCD-11-07-40081) or         Intensive Care Delirium Screening Checklist</li> <li>Alert &amp; Oriented x 3, speech clear, appropriate to situation, intact protective reflexes</li> <li>Calm &amp; cooperative with care</li> <li>Anxiety level acceptable to patient</li> <li>No evidence of delirium Minimum 4-6 hours of uninterrupted sleep</li> </ul>
Motor/Sensory	<ul> <li>Complete ISNCSCI assessment as ordered</li> <li>Notify spine surgeon of NEW or INCREASED DEFICIT</li> <li>Motor/sensory assessment within normal limits or patient's baseline</li> <li>PT motor/sensory assessment completed</li> </ul>
Pain	<ul> <li>Complete Pain assessment as per Pain Assessment and Documentation Standards (VCH.VA.0203)</li> <li>Review pain management, breakthrough doses, oral medications and side effects with patient</li> <li>Review pamphlets with patient "Pain Control after Surgery"</li> <li>Pain level less than 4 OR acceptable to patient and does not preventparticipation in mobility or ADLs</li> </ul>
Respiratory	<ul> <li>Assess RR &amp; SS as per Pain Assessment and Documentation Standards (VCH.VA.0203) while receiving IV opioid</li> <li>Encourage deep breathing and coughing exercises Q1H while awake (ICOUGH)</li> <li>Easy, regular respirations. Breath sounds clear. No cough, or cyanosis. SpO2 equal or greater than 94%</li> </ul>
Cardiovascular	<ul> <li>VS as per Vital signs and observation: Post-op monitoring DST (D-00-07-30113)</li> <li>SCDs to both legs x 24 hours post-op (remove Q shift x 20 minutes)</li> <li>Start LMWH (24 hrs post arrival in PACU) as per MD order</li> <li>Complete IV/CVC site(s) assessment as per IV Therapy, Peripheral: Insertion, Care and Maintenance DST (BD-00-12-40080) or Non-Tunneled Central Venous Catheter (NT-CVC) – Basic Care and Maintenance DST (BD-00-12-40045)</li> <li>Discontinue CVC</li> <li>Saline lock IV or IV TKVO with PCA when drinking greater than or equal to 600mL/12 hr</li> <li>Heart rate regular, capillary refill equal or less than 3 sec, no pitting edema, no calftenderness, normal skin turgor</li> <li>VS within normal limits</li> <li>No evidence of DVT</li> </ul>

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Page 6 of 12



CLINICAL PATHWAY	DOCUMENT #
Anemia	<ul> <li>Notify spine resident if hgb less than 80 g/L or drops by equal or greater than 20 g/L from baseline, or if patient symptomatic</li> <li>No evidence of bleeding (blood loss should not exceed 350mL/12 hours)</li> </ul>
	<ul> <li>No symptoms of anemia (dizziness, hypotension, weak/rapid pulse, delirium, nausea and vomiting)</li> </ul>
GI	<ul> <li>Assess PONV Q4H as per Pain Assessment and Documentation Standards (VCH.VA.0203) and document</li> <li>Capillary Blood Glucose (CBG) assessed as ordered</li> <li>Gum chewing for 15-60 minutes (minimum TID)</li> <li>Patient received scheduled Ondansetron as ordered (first dose administered 8 hours after intra-op dose)</li> <li>No nausea or vomiting during shift</li> <li>Assess and document BM</li> <li>Bowel sounds present, abdomen soft with no distension or pain and flatus passed</li> <li>Patient states PONV is controlled</li> <li>No swallowing issues identified</li> <li>Tolerating equal or greater than 75% of regular diet x 3 meals</li> </ul>
GU	<ul> <li>Voiding with PVR equal or less than 100 mL x 3</li> <li>Pericare completed Q shift</li> <li>Voiding without difficulty, no bladder distension, urine clear, amber and sufficient quantity(equal or greater than 0.5mL/kg/hour)</li> <li>Electrolytes within normal limits</li> </ul>
Skin and Wound	<ul> <li>Complete skin assessment as per Braden Risk and Skin Assessment (Adult) DST <u>D-00-12-30386.pdf (healthcarebc.ca)</u></li> <li>No evidence of dural leak</li> <li>Surgical site dressing dry and intact (Change dressing 72 hours postop or sooner if saturated)</li> <li>Skin warm, dry and intact. Skin colour normal. Mucous membranes pink and moist</li> </ul>
Hygiene	<ul> <li>Assist with Hygiene: Oral / Bedside wash / Bed Bath as necessary</li> <li>Patient tolerates simple self-care activities (oral hygiene, pericare, etc.)</li> </ul>
Functional Mobility	<ul> <li>Review/Teach spine mobility precautions (i.e. neutral cervical spine) and optimum posture</li> <li>Patient turning Q3H with assistance, while maintaining neutral cervical spine</li> <li>HOB elevated as tolerated</li> <li>Leg exercises every hour while in bed</li> <li>Assess mobilization and document         <ul> <li>Log rolling assessment (unable, with assist, or independent)</li> <li>Lying ←→ sitting assessment (unable, with assist, or independent)</li> </ul> </li> </ul>

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Page 7 of 12



CLINICAL PATHWAY	DOCUMENT
	<ul> <li>Sitting ← → standing assessment (unable, with assist, or independent)</li> <li>PT Assess ambulation: ability to walk 50 m; use of equipment/aid         <ul> <li>Refer to PT initial assessment analysis &amp; plan</li> <li>Stairs (unable, with assist/equipment, or independent)</li> </ul> </li> <li>Up in chair for MINIMUM 2 meals</li> <li>Walking to bathroom as tolerated</li> <li>Mobility Goal: walk 50 m X 2 (once with PT &amp; once with nursing/family)</li> </ul>
ADL	Safe, reliable independent functional mobility achieved  See OT initial assessment for analysis & plan
	<ul> <li>Reinforce philosophy of care regarding "early activation/rehabilitation"</li> <li>Teaching pamphlet - "Post-Op Activity Guidelines" provided/reviewed</li> <li>Teaching pamphlet - "Orthosis Management" provided/reviewed</li> <li>Assess the following as independent, requires equipment, requires assistance,         <ul> <li>Don &amp; Doff orthosis as applicable</li> <li>Dressing, Toileting, Grooming, Showering</li> </ul> </li> <li>Assess if self-care equipment required</li> <li>Homemaking/family care (e.g. meal preparation, cleaning, child care, etc.) &amp; community- based ADLs (e.g. shopping, transportation, etc.) screened and no issues identified</li> <li>Understands, and able to follow post-op activity guidelines</li> <li>Safe, reliable independent (or plan in place) for orthosis management</li> <li>Safe, reliable independent (or plan in place) for self-care</li> </ul>
	<ul><li>activities</li><li>Self care equipment needs addressed</li></ul>
	Home & community responsibilities addressed
Psychosocial	No psychosocial issues identified
Med Management	No issues identified with medications patient taking pre-hospital

# **Teaching & Discharge Planning**

- ERAS Booklet
  - Patient has booklet at bedside
  - Patient is aware of daily goals
  - o Reviewed and reinforced pain management

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Effective Date: 09 October, 2020 Page 8 of 12



Post-op Day 2 or Supplem	
Category	Expected Outcomes
Safety	Beside safety checklist completed
Fall Risk	Review Morse Falls Scale as per Falls & Injury Prevention Guideline (2, 22, 23, 23, 23, 23, 23, 24, 24, 24, 24, 24, 24, 24, 24, 24, 24
	(D-00-07-30033)
	Not at risk: reviewed & no concerns
Neuro	Complete delirium assessment as per Delirium: Screening,  Assessment and Management (SAM) DGT (DGD 11, 07, 40091) are
	Assessment and Management (CAM) DST (BCD-11-07-40081) or
	Intensive Care Delirium Screening Checklist
	<ul> <li>Alert &amp; Oriented x 3, speech clear, appropriate to situation, intact protective reflexes</li> </ul>
	Calm & cooperative with care
	Anxiety level acceptable to patient
	No evidence of delirium
	Minimum 4-6 hours of uninterrupted sleep
Motor/Sensory	Complete ISNCSCI assessment as ordered
	Notify spine surgeon of NEW or INCREASED DEFICIT
	Motor/sensory assessment within normal limits or patient's
n-t-	baseline
Pain	Complete Pain assessment as per Pain Assessment and     Complete Pain assessment as per Pain Assessment and
	Documentation Standards (VCH.VA.0203)
	Pain level less than 4 OR acceptable to patient and does not
Danibatan.	preventparticipation in mobility or ADLs
Respiratory	Encourage deep breathing and coughing exercises Q1H while awake  ((COURT))
	(ICOUGH)
	Easy, regular respirations. Breath sounds clear. No cough, or cyanosis. SpO2 equal or greater than 94%
Cardiovascular	VS as per Vital signs and observation: Post-op monitoring DST (D-00-
Cardiovasculai	07-30113)
	LMWH as per MD order
	Heart rate regular, capillary refill equal or less than 3 sec, no pitting
	edema, no calftenderness, normal skin turgor
	VS within normal limits
	No evidence of DVT
Anemia	Notify spine resident if hgb less than 80 g/L or drops by equal or greater
7.1u	than 20 g/L from
	baseline, or if patient symptomatic
	No evidence of bleeding (blood loss should not exceed 350mL/12
	hours)
	No symptoms of anemia (dizziness, hypotension, weak/rapid pulse,
	delirium, nausea and vomiting)
GI	Assess and document PONV Q4H as per Pain Assessment and
	Documentation Standards (VCH.VA.0203)
	If no BM, administer bowel protocol
	Gum chewing for 15 - 60 minutes (minimum TID)
	No nausea or vomiting during shift
	Assess and document BM

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	<ul> <li>Bowel sounds present, abdomen soft with no distension or pain and flatus passed</li> <li>Patient states PONV is controlled</li> </ul>
	No swallowing issues identified
	Tolerating equal or greater than 75% of regular diet x 3 meals
GU	Voiding without difficulty, no bladder distension, urine clear,
	amber and sufficient quantity (equal or greater than
	0.5mL/kg/hour)
Skin and Wound	Complete skin assessment as per Braden Risk and Skin Assessment
	(Adult) DST D-00-12-30386.pdf (healthcarebc.ca)
	Change surgical dressing daily or Q2days
	Incision well approximated – no redness, swelling, minimal or no
	drainage
	Surgical site dressing dry and intact
	Skin warm, dry and intact. Skin colour normal. Mucous membranes
	pink and moist
Hygiene	Set up for Hygiene if necessary: Oral / Bedside wash / Bed Bath /
Tiygiene	Shower
Functional Mobility	Review/teach spine mobility precautions (i.e. spine neutral) and
- Functional Wobility	optimal posture
	HOB elevated as tolerated
	Leg exercises every hour while in bed
	Assess mobilization and document:
	<ul> <li>Log rolling assessment (unable, with assist, or independent)</li> <li>Lying ← → sitting assessment (unable, with assist, or</li> </ul>
	independent)  ○ Sitting ← → standing assessment (unable, with assist, or
	<ul> <li>Sitting ←→ standing assessment (unable, with assist, or independent)</li> </ul>
	<ul> <li>Transfer bed ← → chair (unable, with assist, or</li> </ul>
	independent)
	PT assess ambulation: ability to walk 100 m; use of equipment/aid
	<ul> <li>Stairs (unable, with assist/equipment, or independent;</li> </ul>
	railing)
	Refer to PT analysis/plan
	Up in chair 2 - 3 meals
	Walking to bathroom
	Mobility Goal: walk 100m (once with PT, once with nursing/family),
	stairs with PT
	Safe, reliable independent functional mobility achieved
	- Jule, remaine macpendent functional mobility achieved

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Page 10 of 12



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ADL	See OT initial assessment for analysis & plan
	Reinforce philosophy of care regarding "early
	activation/rehabilitation"
	<ul> <li>Teaching pamphlet - "Post-Op Activity Guidelines" provided/ reviewed</li> </ul>
	Teaching pamphlet - "Orthosis Management" provided/ reviewed
	Assess the following as independent / requires equipment /
	requires assistance:
	<ul> <li>Don &amp; Doff orthosis as applicable</li> </ul>
	<ul> <li>Dressing, Toileting, Grooming, Showering</li> </ul>
	Assess if self-care equipment required
	Homemaking/family care (e.g. meal preparation, cleaning, child
	care, etc.) & community- based ADLs (e.g. shopping,
	transportation, etc.) screened and no issues identified
	Understands, and able to follow post-op activity guidelines
	Safe, reliable independent (or plan in place) for orthosis management
	Safe, reliable independent (or plan in place) for self-care
	activities
	Self care equipment needs addressed
	Home & community responsibilities addressed
Psychosocial	No psychosocial issues identified
Med Management	No issues identified with medications patient taking pre-hospital

### **Teaching & Discharge Planning**

- ERAS Booklet
  - o Patient has booklet at bedside
  - o Patient is aware of daily goals and discharge criteria
- Provide teaching re:
  - Incision care Demonstrate/return demo of dressing change with family/caregiver
  - Dressing/med supplies Give and review with patient and family/caregiver Post-Operative Spine Incision Care Pamphlet (PHEM catalogue no. FB.723.P67)
  - o Pain management— Give and review Pain Control After Surgery (PHEM catalogue no. FM.820.P161) and Opioid Tapering (PHEM catalogue no. EA.836.086) pamphlets
  - Post-op complications
- X-ray complete and reviewed by Spine Surgeon/Resident
- Transportation home arranged for 10:00hrs discharge

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Page 11 of 12



Day of Discharge	
Category	Expected Outcomes
Discharge	<ul> <li>Discharged, accompanied by escort (e.g. spouse, family member)</li> <li>Given discharge prescriptions</li> <li>Given discharge summary</li> <li>Given "Post-operative Spine Incision Care" pamphlet</li> <li>Given follow up information</li> <li>Has all belongings</li> <li>Confirms understanding of when to seek medical attention for complications</li> <li>Arrangements made for staple removal</li> <li>Discharge destination confirmed</li> </ul>

# Developed By:

Effective Date:	
Posted Date:	
Last Revised:	
Last Reviewed:	
Approved By:	
	Endorsed By:
Owners:	VCH
	<ul><li>Developer Lead(s):</li><li>Clinical Nurse Educator, Acute Spine Program, VGH</li></ul>

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