

# Enhanced Recovery After Surgery (ERAS) for Posterior Thoraco-Lumbar-Sacral Spine 1-3 Level Fusion/Revision

# **Site Applicability**

Vancouver General Hospital

# **Pathway Patient Goals**

**Overall Patient Goals:** 

Patient will recover from surgery with an expected 4-6 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. DAT from POD 0
- 3. Discontinue CVC POD 2
- 4. Discontinue indwelling urinary catheter @ 06:00 POD 2 (or earlier if able)
- 5. Saline lock IV POD 2 or IV @ 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/PO Q8H X 3 doses. First dose 8 hours after intra-op dose.
- 8. Mobility goals:
  - POD #1: bathroom and sitting up for meals as tolerated; Walking 20m X 2 (with PT & RN)
  - POD #2: bathroom, sitting up for 2 meals; Walking 50m X 2 (with PT & RN)
  - POD #3: bathroom, sitting up for 2-3 meals; Walking 100m X2 (with PT & RN); stairs with PT
  - POD #4, 5 and 6: bathroom, sitting up for 3 meals; Walking 100m X 2 and stairs independently

### **Inclusion Criteria**

Elective patients undergoing Posterior Thoraco-Lumbar-Sacral Spine with 1, 2 or 3 Level Fusion or Revision.

# **Home Discharge Criteria**

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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, 20032)	
	(D-00-07-30033)	
Name	Not at risk: reviewed & no concerns	
Neuro	Complete delirium assessment as per Delirium: Screening,  Assessment and Management (CANA) DST (BCD 11 07 40081) or	
	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	
	Motor/sensory assessment within normal limits or patient's	
	baseline	
Pain	Complete Pain assessment as per Pain Assessment and	
	Documentation Standards (VCH.VA.0203)	
	Review pain management, use of PCA, breakthrough doses, oral	
	medications and side effects with patient	
	<ul> <li>Provide teaching pamphlets to patient "Pain Control after Surgery" &amp; "PCA"</li> </ul>	
	Pain level < 4 OR acceptable to patient and does not prevent	
	participation in mobility or ADLs	
Respiratory	Assess RR & SS as per Pain Assessment and Documentation	
	Standards (VCH.VA.0203) while receiving IV opioid	
	O2 at 2-4 L/min via nasal prongs x 48 hours while on PCA	
	<ul> <li>Encourage deep breathing and coughing exercises Q1H while awake (ICOUGH)</li> </ul>	
	<ul> <li>Easy, regular respirations. Breath sounds clear. No cough, or cyanosis. SpO2 ≥ 94%</li> </ul>	
	•	
Cardiovascular	<ul> <li>VS as per Vital signs and observation: Post-op monitoring DST (D-00- 07-30113)</li> </ul>	
	<ul> <li>SCDs to both legs x 24 hours post-op (remove Q shift x 20 minutes)</li> </ul>	
	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)	
	<ul> <li>Heart rate regular, capillary refill ≤3 sec, no pitting edema, no calf</li> </ul>	
	tenderness, normal skin turgor	
	VS within normal limits	
	No evidence of DVT	
Anemia	Review estimated OR blood loss and document	



	<ul> <li>Notify spine resident if hgb &lt; 80 g/L or drops by ≥ 20 g/L from baseline, or if patient symptomatic</li> </ul>
	<ul> <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 minutes when awake</li> </ul>
	<ul> <li>Patient received scheduled Ondansetron as per PowerPlan (first dose administered 8 hours after intra-op dose)</li> <li>Assess and document BM</li> </ul>
	<ul> <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 ≥75% of regular diet</li> </ul>
GU	<ul> <li>Review OR/PACU fluid balance and document</li> <li>Assess urine output Q1H x 24 hours and document</li> <li>Clear pumps and total intake and output at 06:00 and 18:00and document</li> <li>Pericare completed Q shift</li> <li>No bladder distension, urine clear, amber and sufficient quantity (≥0.5mL/kg/hour)</li> </ul>
Skin and Wound	<ul> <li>Complete skin assessment as per Braden Risk and Skin Assessment (Adult) DST (BD-00-12-40078)</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>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 patient brought from home or a request has been faxed to GFS Orthotics</li> <li>Mobilization Goal: Bedrest / Dangle</li> <li>Patient turning Q2-3H with assistance, while maintaining neutral spine</li> </ul>

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ADL	Reinforce philosophy of care regarding "early activation/rehabilitation"
Psychosocial	No psychosocial issues identified
Med Management	No issues identified with medications patient taking pre-hospital
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## **Teaching & Discharge Planning**

- ERAS Booklet
  - o Patient has booklet at bedside
  - Patient is aware of daily goals
  - o Reviewed and reinforced 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, use of PCA, breakthrough doses, oral medications and side effects with patient</li> <li>Review pamphlets with patient "Pain Control after Surgery" &amp; "PCA"</li> <li>Pain level &lt; 4 OR acceptable to patient and does not prevent participation 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>O2 at 2-4 L/min via nasal prongs x 48 hours while on PCA</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 ≥ 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>Heart rate regular, capillary refill ≤3 sec, no pitting edema, no calf tenderness, normal skin turgor</li> <li>VS within normal limits</li> <li>No evidence of DVT</li> </ul>



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Anemia	<ul> <li>Notify spine resident if hgb &lt; 80 g/L or drops by ≥ 20 g/L from baseline, or if patient symptomatic</li> </ul>
	<ul> <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,</li> </ul>
	delirium, nausea and vomiting)
GI	Assess PONV Q4H as per Pain Assessment and Documentation
Gi	Standards (VCH.VA.0203) and document
	Capillary Blood Glucose (CBG) assessed as ordered
	Gum chewing for 15 minutes (minimum TID)
	Patient received scheduled Ondansetron as ordered (first dose)
	administered 8 hours after intra-op dose)
	No nausea or 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 ≥75% of regular diet x 3 meals
GU	Assess urine output Q1H x 24 hours, then Q6H and document
33	Clear pumps and total intake and output at 06:00 and 18:00 and
	document
	Pericare completed Q shift
	<ul> <li>Night shift to remove Foley catheter at 0600. If Foley not removed,</li> </ul>
	provide rationale
	No bladder distension, urine clear, amber and sufficient quantity
	(≥0.5mL/kg/hour)
	Electrolytes within normal limits
Skin and Wound	Complete skin assessment as per Braden Risk and Skin Assessment
	(Adult) DST (BD-00-12-40078)
	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,
	etc.)
Functional Mobility	Review/Teach spine mobility precautions (i.e. spine neutral) and
	active log roll technique
	Patient turning Q3H with assistance, while maintaining neutral spine
	HOB elevated as tolerated
	Leg exercises every hour while in bed
	Assess mobilization and document
	o Bedrest / Dangle
	<ul> <li>Log rolling assessment (unable, with assist, or independent)</li> </ul>
	<ul> <li>○ Lying ← → sitting assessment (unable, with assist, or</li> </ul>
	independent)



	<ul> <li>Sitting ←→ standing assessment (unable, with assist, or independent)</li> <li>PT Assess ambulation: ability to walk 20 m; use of equipment/aid         <ul> <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 20 m X 2 (once with PT &amp; once with nursing/family)</li> </ul>
	Safe, reliable independent functional mobility achieved
ADL	See OT initial assessment for analysis & plan
ADL	Reinforce philosophy of care regarding "early activation/rehabilitation"
	<ul> <li>Teaching pamphlet - "Post-Op Activity Guidelines" provided/ reviewed</li> </ul>
	<ul> <li>Teaching pamphlet - "Orthosis Management" provided/ reviewed</li> </ul>
	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
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# **Teaching & Discharge Planning**

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

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Post-op Day 2	
Category	Expected Outcomes
Safety	Complete Beside safety checklist
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	
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> </ul>
	No evidence of delirium
	Minimum 4-6 hours of uninterrupted sleep
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> </ul>
Pain	<ul> <li>Complete Pain assessment as per Pain Assessment and Documentation Standards (VCH.VA.0203)</li> <li>Wean PCA/Ketamine as per POPs orders</li> <li>Patient tolerating oral analgesics as per POPS orders</li> <li>Pain level &lt; 4 OR acceptable to patient and does not prevent participation 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>Titrate O2 to keep SpO2 ≥ 94%</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 ≥ 94%</li> </ul>
Cardiovascular	<ul> <li>VS as per Vital signs and observation: Post-op monitoring DST (D-00-07-30113)</li> <li>LMWH 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 and start PIV TKVO if on PCA/ketamine</li> <li>Saline lock IV if applicable</li> <li>Heart rate regular, capillary refill ≤3 sec, no pitting edema, no calf tenderness, normal skin turgor</li> <li>VS within normal limits</li> </ul>
Anemia	<ul> <li>No evidence of DVT</li> <li>Notify spine resident if hgb &lt; 80 g/L or drops by ≥ 20 g/L from baseline, or if patient symptomatic</li> </ul>



	<ul> <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>If no BM, initiate bowel protocol</li> <li>Gum chewing for 15 minutes (minimum TID)</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 ≥75% of regular diet x 3 meals</li> </ul>
GU	<ul> <li>Voiding with PVR ≤ 100 ml x 3</li> <li>Pericare completed Q shift</li> <li>Voiding without difficulty, no bladder distension, urine clear, amber and sufficient quantity (≥0.5mL/kg/hour)</li> <li>Adequate hydration maintained (600mL/12hrs)</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 (BD-00-12-40078)</li> <li>No evidence of dural leak</li> <li>Surgical site dressing dry and intact (Change dressing 72 hours postop or sooner if saturated – i.e. If wet to outer layer)</li> <li>Skin warm, dry and intact. Skin colour normal. Mucous membranes pink and moist</li> </ul>
Hygiene	Assist or Set up with Hygiene: Oral / Bedside wash / Bed Bath / Shower
Functional Mobility	<ul> <li>Review/Teach spine mobility precautions (i.e. spine neutral) and optimal posture</li> <li>HOB elevated as tolerated</li> <li>Leg exercises every hour while in bed</li> <li>Assess Mobilization and document         <ul> <li>Bedrest / Dangle</li> <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> <li>Transfer bed ← → chair (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 analysis/plan</li> </ul> </li> </ul>
	Up in chair for MINIMUM 2 meals

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	Walking to bathroom as tolerated
	<ul> <li>Mobility Goal: walk 50m X 2 (once with PT &amp; once with nursing/family)</li> </ul>
	Safe, reliable independent functional mobility achieved
ADL	See OT assessment for analysis & plan  Reinforce philosophy of care regarding "early activation/rehabilitation"  Teaching pamphlet - "Post-Op Activity Guidelines" provided/ reviewed  Teaching pamphlet - "Orthosis Management" provided/ reviewed  Assess the following as independent, requires equipment, requires assistance  Don & Doff orthosis as applicable  Dressing, Toileting, Grooming, Showering  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
  - Patient is aware of discharge criteria
  - o Reviewed and reinforced pain management

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Post-op Day 3	
Category	Expected Outcomes
Safety	Beside safety checklist completed
Fall Risk	Review 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)
	<ul> <li>Patient tolerating oral analgesics as per POPS orders</li> </ul>
	<ul> <li>Pain level &lt; 4 OR acceptable to patient and does not prevent</li> </ul>
	participation in mobility or ADLs
Respiratory	<ul> <li>Assess RR &amp; SS as per Pain Assessment and Documentation</li> </ul>
	Standards (VCH.VA.0203) if receiving IV opioid
	Encourage deep breathing and coughing exercises Q1H while awake
	(ICOUGH)
	• Easy, regular respirations. Breath sounds clear. No cough, or
	cyanosis. No O2 used.
	• SpO2 ≥ 94%
Cardiovascular	• VS as per Vital signs and observation: Post-op monitoring DST (D-00-
	07-30113)
	LMWH as per MD order
	• Complete IV site(s) assessment as per IV Therapy, Peripheral:
	Insertion, Care and Maintenance DST (BD-00-12-40080)
	Saline lock IV
	<ul> <li>Heart rate regular, capillary refill ≤3 sec, no pitting edema, no calf</li> </ul>
	tenderness, normal skin turgor
	VS within normal limits
	No evidence of DVT
Anemia	• Notify spine resident if hgb < 80 g/L or drops by ≥ 20 g/L from
	baseline, or if patient symptomatic
	No evidence of bleeding (blood loss should not exceed 350mL/12
	hours)
	<ul> <li>No symptoms of anemia (dizziness, hypotension, weak/rapid pulse,</li> </ul>
	delirium, nausea and vomiting)



GU	<ul> <li>Assess PONV Q4H as per Pain Assessment and Documentation Standards (VCH.VA.0203) and document</li> <li>If no BM, administer bowel protocol</li> <li>Gum chewing for 15 minutes (minimum TID)</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 ≥75% of regular diet x 3 meals</li> <li>Pericare completed Q shift</li> <li>Voiding without difficulty, no bladder distension, urine clear, amber and sufficient quantity (≥0.5mL/kg/hour)</li> </ul>
	Adequate hydration maintained (600 ml/12 hours)
	Electrolytes within normal limits
Skin and Wound	<ul> <li>Complete skin assessment as per Braden Risk and Skin Assessment (Adult) (link BD-00-12-40078)</li> <li>Change dressing and document</li> <li>Incision well approximated – no redness, swelling, minimal or no</li> </ul>
	drainage
	<ul> <li>Surgical site dressing dry and intact</li> <li>Skin warm, dry and intact. Skin colour normal. Mucous membranes</li> </ul>
	pink and moist
Hygiene	-
Hygiene Functional Mobility	<ul> <li>Set up for Hygiene: Oral / Bedside wash / Bed Bath / Shower</li> <li>Review/teach spine mobility precautions (i.e. spine neutral) and</li> </ul>
	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 independent)</li> </ul>
	$\circ$ Sitting $\leftarrow \rightarrow$ standing assessment (unable, with assist, or
	<ul> <li>Sitting ←→ standing assessment (unable, with assist, or independent)</li> <li>Transfer bed ←→ chair (unable, with assist, or independent)</li> <li>PT Assess ambulation: ability to walk 100 m; use of equipment/aid</li> <li>Stairs (unable, with assist/equipment, or independent; railing)</li> </ul>
	<ul> <li>Sitting ←→ standing assessment (unable, with assist, or independent)</li> <li>Transfer bed ←→ chair (unable, with assist, or independent)</li> <li>PT Assess ambulation: ability to walk 100 m; use of equipment/aid</li> <li>Stairs (unable, with assist/equipment, or independent; railing)</li> <li>Refer PT analysis/plan</li> </ul>
	<ul> <li>Sitting ←→ standing assessment (unable, with assist, or independent)</li> <li>Transfer bed ←→ chair (unable, with assist, or independent)</li> <li>PT Assess ambulation: ability to walk 100 m; use of equipment/aid</li> <li>Stairs (unable, with assist/equipment, or independent; railing)</li> <li>Refer PT analysis/plan</li> <li>Up in chair for MINIMUM 2 meals</li> </ul>
	<ul> <li>Sitting ←→ standing assessment (unable, with assist, or independent)</li> <li>Transfer bed ←→ chair (unable, with assist, or independent)</li> <li>PT Assess ambulation: ability to walk 100 m; use of equipment/aid</li> <li>Stairs (unable, with assist/equipment, or independent; railing)</li> <li>Refer PT analysis/plan</li> <li>Up in chair for MINIMUM 2 meals</li> <li>Walking to bathroom as tolerated</li> </ul>
	<ul> <li>Sitting ←→ standing assessment (unable, with assist, or independent)</li> <li>Transfer bed ←→ chair (unable, with assist, or independent)</li> <li>PT Assess ambulation: ability to walk 100 m; use of equipment/aid         <ul> <li>Stairs (unable, with assist/equipment, or independent; railing)</li> <li>Refer PT analysis/plan</li> </ul> </li> <li>Up in chair for MINIMUM 2 meals</li> <li>Walking to bathroom as tolerated</li> <li>Mobility Goal: walk 100m X 2 (once with PT &amp; once with</li> </ul>
	<ul> <li>Sitting ←→ standing assessment (unable, with assist, or independent)</li> <li>Transfer bed ←→ chair (unable, with assist, or independent)</li> <li>PT Assess ambulation: ability to walk 100 m; use of equipment/aid</li> <li>Stairs (unable, with assist/equipment, or independent; railing)</li> <li>Refer PT analysis/plan</li> <li>Up in chair for MINIMUM 2 meals</li> <li>Walking to bathroom as tolerated</li> </ul>





	<del>-</del>
	<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> </ul>
	Understands, and able to follow post-op activity guidelines
	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
  - o Patient is aware of discharge criteria
- Provide teaching re:
  - o 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)
  - 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 completed, interpreted by MD
- Transportation home arranged for 10:00hrs discharge

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Post-op Day 4	T
Category	Expected Outcomes
Safety	Beside safety checklist completed
Fall Risk	Review 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)
	<ul> <li>Pain level &lt; 4 OR acceptable to patient and does not prevent</li> </ul>
	participation in mobility or ADLs
Respiratory	Encourage deep breathing and coughing exercises Q1H while awake
	(ICOUGH)
	<ul> <li>Easy, regular respirations. Breath sounds clear. No cough, or</li> </ul>
	cyanosis. SpO2 ≥ 94%
	•
Cardiovascular	VS as per Vital signs and observation: Post-op monitoring DST (D-00-
	07-30113)
	LMWH as per MD order
	• Complete IV site(s) assessment as per IV Therapy, Peripheral:
	Insertion, Care and Maintenance DST (BD-00-12-40080)
	<ul> <li>Heart rate regular, capillary refill ≤3 sec, no pitting edema, no calf</li> </ul>
	tenderness, normal skin turgor
	VS within normal limits
	No evidence of DVT
Anemia	<ul> <li>Notify spine resident if hgb &lt; 80 g/L or drops by ≥ 20 g/L from</li> </ul>
	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
	If no BM, administer bowel protocol
	Gum chewing for 15 minutes (minimum TID)
	No nausea or vomiting during shift



GU	<ul> <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 ≥75% of regular diet x 3 meals</li> <li>Adequate hydration maintained (600 ml/12 hours)</li> <li>Voiding without difficulty, no bladder distension, urine clear,</li> </ul>
	amber and sufficient quantity (≥0.5mL/kg/hour)
Skin and Wound  •	<ul> <li>Complete skin assessment as per Braden Risk and Skin Assessment (Adult) DST (BD-00-12-40078)</li> <li>Change surgical dressing daily or Q2days</li> <li>Incision well approximated – no redness, swelling, minimal or no drainage</li> <li>Surgical site dressing dry and intact.</li> <li>Skin warm, dry and intact. Skin colour normal. Mucous membranes pink and moist</li> </ul>
Hygiene	Set up for Hygiene if necessary: Oral / Bedside wash / Bed Bath / Shower
Functional Mobility	<ul> <li>Review/teach spine mobility precautions (i.e. spine neutral) and optimal posture</li> <li>HOB elevated as tolerated</li> <li>Leg exercises every hour while in bed</li> <li>Assess mobilization and document:         <ul> <li>Bedrest / Dangle</li> <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> <li>Transfer bed ← → chair (unable, with assist, or independent)</li> </ul> </li> <li>PT Assess ambulation: ability to walk 100 m; use of equipment/aid         <ul> <li>Stairs (unable, with assist/equipment, or independent; railing)</li> <li>Refer to PT analysis/plan</li> </ul> </li> <li>Up in chair x all 3 meals</li> <li>Walking to bathroom</li> <li>Mobility Goal: Walk 100m independently (minimum X 2)</li> <li>Safe, reliable independent functional mobility achieved</li> </ul>
ADL	<ul> <li>See OT assessment for analysis &amp; plan</li> <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> </ul>



	<ul> <li>Assess the following as independent, requires equipment, requires assistance, or PN         <ul> <li>Don &amp; Doff orthosis</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 activities</li> <li>Self care equipment needs addressed</li> <li>Home &amp; community responsibilities addressed</li> </ul>
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
  - o Patient is aware of daily goals and discharge criteria
- Provide teaching re:
  - o Incision care Demonstrate/return demo of dressing change with family/caregiver
  - Oressing/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 completed, interpreted
- Transportation home arranged for 10:00hrs discharge

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Post-op Day 5	
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</li> <li>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> </ul>
Pain	<ul> <li>Complete Pain assessment as per Pain Assessment and Documentation Standards (VCH.VA.0203)</li> <li>Pain level &lt; 4 OR acceptable to patient and does not prevent participation in mobility or ADLs</li> </ul>
Respiratory	<ul> <li>Encourage deep breathing and coughing exercises Q1H while awake (ICOUGH)</li> <li>Easy, regular respirations. Breath sounds clear. No cough, or cyanosis. SpO2 ≥ 94%</li> </ul>
Cardiovascular	<ul> <li>VS as per Vital signs and observation: Post-op monitoring DST (D-00-07-30113)</li> <li>LMWH as per MD order</li> <li>Heart rate regular, capillary refill ≤3 sec, no pitting edema, no calf tenderness, normal skin turgor</li> <li>VS within normal limits</li> <li>No evidence of DVT</li> </ul>
Anemia	<ul> <li>Notify spine resident if hgb &lt; 80 g/L or drops by ≥ 20 g/L from baseline, or if patient symptomatic</li> <li>No evidence of bleeding (blood loss should not exceed 350mL/12 hours)</li> <li>No symptoms of anemia (dizziness, hypotension, weak/rapid pulse, delirium, nausea and vomiting)</li> </ul>
GI	<ul> <li>Assess and document PONV Q4H as per Pain Assessment and Documentation Standards (VCH.VA.0203)</li> <li>If no BM, administer bowel protocol</li> <li>Gum chewing for 15 minutes (minimum TID)</li> <li>No nausea or vomiting during shift</li> <li>Assess and document BM</li> </ul>



	<ul> <li>Bowel sounds present, abdomen soft with no distension or pain and flatus passed</li> </ul>
	Patient states PONV is controlled
	No swallowing issues identified
	<ul> <li>Tolerating ≥75% of regular diet x 3 meals</li> </ul>
GU	<ul> <li>Voiding without difficulty, no bladder distension, urine clear, amber and sufficient quantity (≥0.5mL/kg/hour)</li> </ul>
Skin and Wound	Complete skin assessment as per Braden Risk and Skin Assessment
	(Adult) DST (BD-00-12-40078)
	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 / Shower
Functional Mobility	Review/teach spine mobility precautions (i.e. spine neutral) and
	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> </ul>
	<ul> <li>Lying ←→ sitting assessment (unable, with assist, or</li> </ul>
	independent)
	<ul> <li>Sitting ←→ standing assessment (unable, with assist, or</li> </ul>
	independent)
	<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)  o Refer to PT analysis/plan
	Up in chair x all 3 meals
	<ul> <li>Walking to bathroom</li> <li>Mobility Goal: walk 100m independently (minimum X 2)</li> </ul>
ADI	Safe, reliable independent functional mobility achieved     Safe, reliable independent functional mobility achieved
ADL	See OT initial assessment for analysis & plan
	Reinforce philosophy of care regarding "early     activation (rehabilitation")
	activation/rehabilitation"  Toaching namphlet "Bost On Activity Guidelines" provided/
	<ul> <li>Teaching pamphlet - "Post-Op Activity Guidelines" provided/ reviewed</li> </ul>
	Teaching pamphlet - "Orthosis Management" provided/
	reviewed
	<ul> <li>Assess the following as independent / requires equipment /</li> </ul>
	requires assistance:
	Don & Doff orthosis as applicable
	Don's Don's Don's as applicable



	<ul> <li>Dressing, Toileting, Grooming, Showering</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 activities</li> <li>Self care equipment needs addressed</li> <li>Home &amp; community responsibilities addressed</li> </ul>
<u> </u>	•
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 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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Post-op Day 6 or Supplemental Day	
Category	Expected Outcomes
Safety	Beside safety checklist completed
Fall Risk	Review Morse Falls Scale as per Falls & Injury Prevention Guideline
	(D-00-07-30033)
	Not at risk: reviewed & no concerns
Neuro	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 baseline</li> </ul>
Pain	Complete Pain assessment as per Pain Assessment and
	Documentation Standards (VCH.VA.0203)
	Pain level < 4 OR acceptable to patient and does not prevent
	participation in mobility or ADLs
Respiratory	Encourage deep breathing and coughing exercises Q1H while awake
	(ICOUGH)
	<ul> <li>Easy, regular respirations. Breath sounds clear. No cough, or</li> </ul>
	cyanosis. SpO2 ≥ 94%
	•
Cardiovascular	VS as per Vital signs and observation: Post-op monitoring DST(D-00-
	07-30113)
	LMWH as per MD order
	Heart rate regular, capillary refill ≤3 sec, no pitting edema, no calf
	tenderness, normal skin turgor  VS within normal limits
Anemia	<ul> <li>No evidence of DVT</li> <li>Notify spine resident if hgb &lt; 80 g/L or drops by ≥ 20 g/L from</li> </ul>
Allellia	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) and document
	If no BM, initiate bowel protocol
	Gum chewing for 15 minutes (minimum TID)
	No nausea or 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 ≥75% of regular diet x 3 meals
GU	Voiding without difficulty, no bladder distension, urine clear,
do	amber and sufficient quantity (≥0.5mL/kg/hour)
Skin and Wound	Complete skin assessment as per Braden Risk and Skin Assessment
	(Adult) DST (BD-00-12-40078)
	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 /
	Shower
Functional Mobility	Review/teach spine mobility precautions (i.e. spine neutral) and
	optimal posture
	HOB elevated as tolerated
	Leg exercises every hour while in bed
	Assess mobilization:
	<ul> <li>Log rolling assessment (unable, with assist, or independent)</li> </ul>
	<ul> <li>○ Lying ←→ sitting assessment (unable, with assist, or</li> </ul>
	independent)
	<ul> <li>Sitting ←→ standing assessment (unable, with assist, or</li> </ul>
	independent)
	<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 x all 3 meals
	Walking to bathroom
	Mobility Goal: walk 100m independently (minimum X 2)      Cofe and lightly independent for at least fifty as his walk.
ADI	Safe, reliable independent functional mobility achieved
ADL	See OT initial assessment for analysis & plan
	Reinforce philosophy of care regarding "early     activation (solve) it is a first to a first
	activation/rehabilitation"
	Teaching pamphlet - "Post-Op Activity Guidelines" provided/
	reviewed
	Teaching pamphlet - "Orthosis Management" provided/
	reviewed
	<ul> <li>Assess the following as independent, requires equipment,</li> </ul>
	requires assistance,
	<ul> <li>Don &amp; Doff orthosis</li> </ul>
	<ul> <li>Dressing, Toileting, Grooming, Showering</li> </ul>
	Assess if self-care equipment required

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	<ul> <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 activities</li> <li>Self care equipment needs addressed</li> <li>Home &amp; community responsibilities addressed</li> </ul>
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:
  - o 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)
  - 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
- Transportation home arranged for 10:00hrs discharge

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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:
	Final Sign Off:
Owners:	VCH
	Developer Lead(s):
	Clinical Nurse Educator, Acute Spine Program, VGH
	Chilical Naise Educator, Acute Spine Program, Volt