

# ENT Transoral Robotic Surgery (TORS) +/- Neck Dissection ERAS Clinical Pathway

# Site Applicability

Vancouver General Hospital (VGH)

#### **Overall ERAS Goals:**

- ↓ stress response to surgery
- Improve patient experience
- ↓ complications and Length of Stay (LOS)

### **Specific ERAS Goals:**

- 1. Gum chewing x 15 minutes while awake, 3 times a day
- 2. POD 0 Meds with sips of clear fluids and ice chips, POD 1 Pureed with oral nutritional supplement (e.g. Ensure Plus Calories BID, POD 2 Post Surgical Transition Diet (regular texture) with oral nutritional supplement (e.g. Ensure Plus Calories) BID, POD 3 General diet with oral nutritional supplement (e.g. Ensure Plus Calories) BID
- 3. Discontinue indwelling urinary catheter POD 1 by 06:00 hrs
- 4. Saline lock IV when drinking greater than or equal to 600mL/12hr
- 5. 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
- 6. Ondansetron 4mg IV Q8H X 3 or 6 doses. First dose 8 hours after intra-op dose.
- 7. Mobility goals:
  - POD 0: Dangle on edge of bed and walk to the bathroom
  - POD 1: Walk to nursing station and back twice a day and sit up for 2-3 meals
  - POD 2: Walk around the unit twice a day and sit up for all three meals

# **Pathway Patient Goals**

Patient will recover from surgery with an expected 3-day length of stay (LOS) and experience a safe discharge home. Patient will report pain below 4/10 or adequate for mobilizing and Deep Breathing and Cough exercises Effective discharge planning and teaching provided to patient and caregivers for a safe discharge.

#### **Inclusion Criteria**

All patients having elective transoral robotic surgery with or without neck dissection.

# **Exclusion Criteria**

- Non-robotic surgeries
- When significant deviations from expected outcomes are noted

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# **Home Discharge Criteria**

# **Instructions**

- 1. Review pathway once per shift for patient care goals and expected outcomes
- 2. Complete documentation in the Electronic Health Record(Cerner) or paper chart as per policy

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Post-op Day 0: Surgery Day	
Focus of Care	Expected Outcomes
Teaching, Discharge Planning	<ul> <li>Orient to unit &amp; hospital routine</li> <li>Reinforce pre-op teaching (deep breathing and leg exercises)</li> <li>Review painscale/management</li> <li>Patient and family understand outcome of surgery</li> <li>ERAS Booklet:         <ul> <li>Patient has booklet at bedside</li> <li>Patient is aware of daily goals</li> </ul> </li> </ul>
Tests	Standing orders for blood work
Consults	
Assessments, Treatments	<ul> <li>Vital signs and temperature as per post-op protocol (R12-20 min, P60-100, BP 90-150)</li> <li>Level of consciousness (oriented x 3)</li> <li>Chest auscultation Q4hrs PRN (breath sounds clear; resp easy &amp; regular, no SOB, no resp distress)</li> <li>Pulse oximeter Q4hrs PRN - titrate oxygen to keep SpO<sub>2</sub> 92% or greater (or SpO<sub>2</sub> 88-92% for patients with COPD)</li> <li>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</li> <li>Assess peripheral IV site (free of infection, redness)</li> <li>Assess for facial symmetry, loss of sensation to face/ear</li> <li>Assess neck incision (monitor for swelling, bleeding, evidence of hematoma)</li> <li>Neck incision well approximated, sutures in situ</li> <li>Assess abdominal status Q4hrs PRN (soft, non distended, bowel sounds x 4 audible)</li> <li>Monitor and empty hemovac drainage Q6hrs PRN (No sanguineous drainage)</li> <li>Strip hemovac drain Q1hr x 4hrs then Q6hrs PRN</li> <li>Suture scissors at bedside at all times (tape to HOB)</li> </ul>
Airway Adequate	<ul> <li>Airway patent, can clear own secretions</li> <li>Assess patient's voice (absence of hoarseness, stridor)</li> </ul>
Activity, Rest	<ul> <li>Elevate HOB 30°</li> <li>Encourage deep breathing and leg exercises Q1hr while awake</li> <li>Plantar dorsi-flexion exercises Q1hr while awake</li> <li>Dangle legs on side of bed</li> <li>Walk to the bathroom with assistance</li> </ul>
Medications	<ul> <li>Analgesics scheduled &amp; prn</li> <li>Antiemetic scheduled prn</li> <li>Polysporin BID to neck incision</li> </ul>
Pain	<ul> <li>Pain assessment Q1hr until pain is controlled then Q4hrs and PRN (pain adequately controlled)</li> <li>1 teaspoon of honey swish and swallow Q4hr</li> </ul>

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CLINICAL I ATTIVVI	AT DOCOMENT#
	<ul><li>Sedation level within norm</li><li>Pruritus controlled</li></ul>
Nutrition	<ul> <li>Ice chips</li> <li>Meds with sips of Clear Fluids</li> <li>Gum chewing x 15 minutes while awake, 3 times a day</li> <li>Nausea controlled</li> <li>Ondansetron 4mg IV Q8H X 3 or 6 doses. First dose 8 hours after intra-op dose.</li> </ul>
Elimination	<ul> <li>Voiding adequately (urine output greater than 30 mLs/hr)</li> <li>Foley catheter to straight drainage (urine output greater than 30 mLs/hr)</li> <li>Passing flatus</li> </ul>
Anxiety/Fear	<ul> <li>Nurse will anticipate and discuss patient's/families concerns and fears related to surgery</li> <li>Information needs met</li> </ul>
Desired Outcomes within Normal Limits	<ul> <li>Airway patent</li> <li>Vital signs and temp stable within normal range/satisfactory</li> <li>Neck incision well approximated</li> <li>Hemovac drain(s) output/colour within normal range/satisfactory</li> <li>Patient states pain is at an acceptable level</li> <li>Nausea controlled</li> <li>Tolerates oral intake</li> <li>Fluids and electrolytes balanced</li> <li>Patient describes anxiety as acceptable</li> </ul>

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Post-op Day 1	
Focus of Care	Expected Outcomes
Teaching, Discharge Planning	<ul> <li>Reinforce importance of deep breathing and leg exercises</li> <li>Review pain scale/management</li> <li>Patient and family understand outcome of surgery</li> <li>Hemovac drain care teaching initiated – if applicable</li> <li>Discuss potential discharge in 3 days</li> <li>Discuss potential needs upon discharge (home support/home care nursing)</li> <li>ERAS Booklet:         <ul> <li>Patient has booklet at bedside</li> <li>Patient is aware of daily goals</li> </ul> </li> </ul>
	Discharge supplies:     o provide "Hemovac pamphlet" along with a measuring container
Tests	Standing orders for blood work
Consults	<ul> <li>Speech Language Pathology for swallow/diet assessment</li> <li>Physical Therapy for neck exercises</li> </ul>
Assessments, Treatments	<ul> <li>Vital signs and temperature as per post-op protocol (R12-20 min, P60-100, BP 90-150)</li> <li>Level of consciousness (oriented x 3)</li> <li>Chest auscultation Q4hrs PRN (breath sounds clear; resp easy &amp; regular, no SOB, no respdistress)</li> <li>Pulse oximeter Q4hrs PRN – titrate oxygen to keep SpO<sub>2</sub> 92% or greater (or SpO<sub>2</sub> 88-92% for patients with COPD) and wean to room air</li> <li>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</li> <li>Assess peripheral IV site (free of infection, redness)</li> <li>Saline lock IV when tolerating oral fluids greater than or equal to 600 mL/12hrs</li> <li>Assess for facial symmetry, loss of sensation to face/ear</li> <li>Assess neck incision (monitor for swelling, bleeding, evidence of hematoma)</li> <li>Neck incision well approximated, sutures in situ</li> <li>Assess abdominal status Q4hrs PRN(soft, non distended, bowel sounds x 4 audible)         Monitor and empty hemovac drainage Q6hrs PRN (No sanguineous drainage)</li> <li>Strip hemovac drain Q1hr x 4hrs then Q6hrs PRN</li> <li>Suture scissors at bedside at all times (tape to HOB)</li> </ul>
Adequate Airway	<ul> <li>Airway patent, can clear own secretions</li> <li>Assess patient's voice (absence of hoarseness, stridor)</li> </ul>
Activity, Rest	<ul> <li>Elevate HOB 30°</li> <li>Encourage deep breathing and leg exercises Q4hr PRN</li> <li>Up in chair for meals (2-3 times/day)</li> <li>Walk to the nursing station and back with help (minimum 2 times a day)</li> <li>Assisting with am care</li> <li>Seen by physiotherapist for neck exercises</li> </ul>

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LINICAL PATH WA	DOCUMENT#
Medications	<ul> <li>Analgesics scheduled &amp; prn</li> <li>Antiemetic scheduled &amp; prn</li> <li>Polysporin BID to neck incision</li> </ul>
Pain	<ul> <li>Pain assessment Q1hr until pain is controlled then Q4hrs prn (pain adequately controlled)</li> <li>1 teaspoon of honey swish and swallow Q4hr</li> <li>Sedation level within normal</li> </ul>
Nutrition	<ul> <li>Pureed diet with oral nutritional supplement (e.g. Ensure Plus Calories) BID</li> <li>Gum chewing x 15 minutes while awake, 3 times a day</li> <li>Nausea controlled</li> <li>Ondansetron 4mg IV Q8H X 3 or 6 doses</li> </ul>
Elimination	<ul> <li>Foley removed at 06:00 hours</li> <li>Voiding adequately (urine output greater than 30 mLs/hr)</li> <li>Passing flatus</li> </ul>
Anxiety/Fear	<ul> <li>Nurse will anticipate and discuss patient's/families concerns and fears related to surgery</li> <li>Information needs met</li> </ul>
Desired Outcomes within Normal Limits	<ul> <li>Airway patent</li> <li>Vital signs and temp stable within normal range/satisfactory</li> <li>Neck incision well approximated</li> <li>Hemovac drain(s) output/colour within normal range/satisfactory</li> <li>Patient states pain is at an acceptable level</li> <li>Nausea controlled</li> <li>Tolerates oral intake</li> <li>Fluids and electrolytes balanced</li> <li>Patient describes anxiety as acceptable</li> <li>Patient initiating and managing self care of hemovac drain</li> <li>Ambulating – returning to baseline level of function</li> </ul>

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Post-op Day 2	
Focus of Care	Expected Outcomes
Teaching, Discharge Planning	<ul> <li>Reinforce importance of deep breathing and leg exercises</li> <li>Review pain scale/management</li> <li>Hemovac drain care teaching accomplished – if applicable</li> <li>Plan to go home tomorrow</li> <li>Discuss potential needs upon discharge (home support/home care nursing)</li> <li>Inform patient/family of all resources arranged upon discharge</li> <li>Inform patient timing of suture removal if applicable</li> <li>ERAS Booklet:         <ul> <li>Patient has booklet at bedside</li> <li>Patient is aware of daily goals</li> </ul> </li> </ul>
Tests	Standing orders for blood work
Consults	Home care nursing (re: hemovac drain care) if applicable
Assessments, Treatments	<ul> <li>Vital signs and temp as per post-op protocol (R12-20 min, P60-100, BP 90-150)</li> <li>Level of consciousness (oriented x 3)</li> <li>Chest auscultation Q4hrs PRN (breath sounds clear; resp easy &amp; regular, no SOB, no resp distress)</li> <li>Pulse oximeter Q4hrs PRN (greater than 93%) on room air</li> <li>Assess peripheral IV site (free of infection, redness)</li> <li>Saline lock IV when tolerating oral fluids greater than or equal to 600 mL/12hrs</li> <li>Assess for facial symmetry, loss of sensation to face/ear</li> <li>Assess neck incision (monitor for swelling, bleeding, evidence of hematoma)</li> <li>Neck incision well approximated, sutures in situ</li> <li>Assess abdominal status Q4hrs PRN (soft, non distended, bowel sounds x 4 audible)</li> <li>Monitor and empty hemovac drainage Q6hrs PRN (No sanguineous drainage)</li> <li>Strip hemovac drain Q6hrs PRN</li> <li>Suture scissors at bedside at all times (tape to HOB)</li> </ul>
Adequate Airway	<ul> <li>Airway patent, can clear own secretions</li> <li>Assess patient's voice (absence of hoarseness, stridor)</li> </ul>
Activity, Rest	<ul> <li>Elevate HOB 30°</li> <li>Encourage deep breathing and leg exercises Q4hr PRN</li> <li>Up in chair for all meals (3 times/day)</li> <li>Walk around the unit minimum 2 times</li> <li>Independent with am care</li> <li>Patient performing re: neck and shoulder exercises</li> </ul>
Medications	<ul> <li>Analgesics PRN</li> <li>Antiemetic PRN</li> <li>Polysporin BID to neck incision</li> </ul>

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Pain	Pain assessment Q1hr until pain is controlled then Q4hrs PRN(pain adequately controlled)
	<ul><li>1 teaspoon of honey swish and swallow Q4hr</li><li>Sedation level within norm</li></ul>
Nutrition	<ul> <li>Post surgical transition diet with oral nutritional supplement (e.g. Ensure Plus Calories)</li> <li>BID</li> <li>Gum chewing x 15 minutes while awake, 3 times a day</li> </ul>
	<ul> <li>Nausea controlled</li> <li>Ondansetron 4mg IV Q8H X 6 doses</li> </ul>
Elimination	Voiding adequately (urine output greater than 30 mLs/hr)     Passing flatus     Note any normal BM     Note any diarrhea
Anxiety/Fear	<ul> <li>Nurse will anticipate and discuss patient's/families concerns and fears related to surgery</li> <li>Information needs met</li> </ul>
Desired Outcomes within Normal Limits	<ul> <li>Airway patent</li> <li>Vital signs and temp stable within normal range/satisfactory</li> <li>Neck incision well approximated</li> <li>Hemovac drain(s) output/colour within normal range/satisfactory</li> <li>Patient states pain is at an acceptable level</li> <li>Nausea controlled</li> <li>Tolerates oral intake</li> <li>Fluids and electrolytes balanced</li> <li>Patient describes anxiety as acceptable</li> <li>Patient able to self manage self care of hemovac drain if applicable</li> <li>Mobilizing independently - at baseline level of function</li> </ul>

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Post-op Day 3 until discharge	
Focus of Care	Expected Outcomes
Teaching, Discharge Planning	<ul> <li>Reinforce importance of deep breathing and leg exercises</li> <li>Review pain scale/management</li> <li>Hemovac drain care teaching accomplished – if applicable</li> <li>Plan to go home today</li> <li>Inform patient/family of all resources arranged upon discharge</li> <li>Inform patient timing of suture removal if applicable</li> <li>ERAS Booklet:         <ul> <li>Patient has booklet at bedside</li> <li>Patient is aware of daily goals</li> </ul> </li> </ul>
Tests	Standing orders for blood work
Consults	Home care nursing (re: hemovac drain care) if applicable
Assessments, Treatments	<ul> <li>Vital signs and temp as per post-op protocol (R12-20 min, P60-100, BP 90-150)</li> <li>Level of consciousness (oriented x 3)</li> <li>Chest auscultation Q4hrs PRN (breath sounds clear; resp easy &amp; regular, no SOB, no resp distress)</li> <li>Pulse oximeter Q4hrs PRN (greater than 93%) on room air</li> <li>Assess peripheral IV site (free of infection, redness)</li> <li>Remove saline lock IV</li> <li>Assess for facial symmetry, loss of sensation to face/ear</li> <li>Assess neck incision (monitor for swelling, bleeding, evidence of hematoma)</li> <li>Neck incision well approximated, sutures in situ</li> <li>Assess abdominal status Q4hrs PRN (soft, non distended, bowel sounds x 4 audible)</li> <li>Monitor and empty hemovac drainage Q6hrs PRN(No sanguineous drainage)</li> <li>Strip hemovac drain Q6hrs PRN if applicable</li> <li>Suture scissors at bedside at all times (tape to HOB)</li> </ul>
Adequate Airway	<ul> <li>Airway patent, can clear own secretions</li> <li>Assess patient's voice (absence of hoarseness, stridor)</li> </ul>
Activity, Rest	<ul> <li>Elevate HOB 30°</li> <li>Encourage deep breathing and leg exercises Q4hr prn</li> <li>Up in chair for all meals (3 times/day)</li> <li>Walk around the unit minimum 2 times</li> <li>Independent with am care</li> <li>Patient performing re: neck exercises</li> </ul>
Medications	<ul> <li>Analgesics prn</li> <li>Antiemetic prn</li> <li>Polysporin BID to neck incision</li> </ul>

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Pain	<ul> <li>Pain assessment Q1hr until pain is controlled then Q4hrs PRN(pain adequatelycontrolled)</li> </ul>
	<ul><li>1 teaspoon of honey swish and swallow Q4hr</li><li>Sedation level within norm</li></ul>
Nutrition	General diet with oral nutritional supplement (e.g. Ensure Plus Calories) BID
	<ul> <li>Gum chewing x 15 minutes while awake, 3 times a day</li> <li>Nausea controlled</li> </ul>
Elimination	<ul> <li>Voiding adequately (urine output greater than 30 mLs/hr)</li> <li>Passing flatus</li> <li>Note any normal BM</li> <li>Note any diarrhea</li> </ul>
Anxiety/Fear	<ul> <li>Nurse will anticipate and discuss patient's/families concerns and fears related to surgery</li> <li>Information needs met</li> </ul>
Desired Outcomes within Normal Limits	<ul> <li>Airway patent</li> <li>Vital signs and temp stable within normal range/satisfactory</li> <li>Neck incision well approximated</li> <li>Hemovac drain(s) output/colour within normal range/satisfactory</li> <li>Patient states pain is at an acceptable level</li> <li>Nausea controlled</li> <li>Tolerates oral intake</li> <li>Fluids and electrolytes balanced</li> <li>Patient describes anxiety as acceptable</li> <li>Patient able to self manage self care of hemovac drain if applicable</li> </ul>
	<ul> <li>Patient able to self manage self care of hemovac drain if applicable</li> <li>Mobilizing independently - at baseline level of function</li> </ul>

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	Supplemental Days	
Focus of Care	Expected Outcomes	
Teaching, Discharge Planning	<ul> <li>Reinforce importance of deep breathing and leg exercises</li> <li>Review pain scale/management</li> <li>Hemovac drain care teaching accomplished – if applicable</li> <li>Plan to go home today</li> <li>Inform patient/family of all resources arranged upon discharge</li> <li>Inform patient timing of suture removal if applicable</li> <li>ERAS Booklet:         <ul> <li>Patient has booklet at bedside</li> <li>Patient is aware of daily goals</li> </ul> </li> </ul>	
Tests	Standing orders for blood work	
Consults	Home care nursing (re: hemovac drain care) if applicable	
Assessments, Treatments	<ul> <li>Vital signs and temp as per post-op protocol (R12-20 min, P60-100, BP 90-150)</li> <li>Level of consciousness (oriented x 3)</li> <li>Chest auscultation Q4hrs PRN (breath sounds clear; resp easy &amp; regular, no SOB, no respdistress)</li> <li>Pulse oximeter Q4hrs PRN (greater than 93%) on room air</li> <li>Assess peripheral IV site (free of infection, redness)</li> <li>Remove saline lock IV</li> <li>Assess for facial symmetry, loss of sensation to face/ear</li> <li>Assess neck incision (monitor for swelling, bleeding, evidence of hematoma)</li> <li>Neck incision well approximated, sutures in situ</li> <li>Assess abdominal status Q4hrs PRN (soft, non distended, bowel sounds x 4 audible)</li> <li>Monitor and empty hemovac drainage Q6hrs PRN (No sanguineous drainage)</li> <li>Strip hemovac drain Q6hrs PRN if applicable</li> <li>Suture scissors at bedside at all times (tape to HOB)</li> </ul>	
Adequate Airway	<ul> <li>Airway patent, can clear own secretions</li> <li>Assess patient's voice (absence of hoarseness, stridor)</li> </ul>	
Activity, Rest	<ul> <li>Elevate HOB 30°</li> <li>Encourage deep breathing and leg exercises Q4hr prn</li> <li>Up in chair for all meals (3 times/day)</li> <li>Walk around the unit minimum 2 times</li> <li>Independent with am care</li> <li>Patient performing re: neck exercises</li> </ul>	
Medications	<ul> <li>Analgesics prn</li> <li>Antiemetic prn</li> <li>Polysporin BID to neck incision</li> </ul>	

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<ul> <li>Pain assessment Q1hr until pain is controlled then Q4hrs PRN(pain adequatelycontrolled)</li> </ul>
<ul><li>1 teaspoon of honey swish and swallow Q4hr</li><li>Sedation level within norm</li></ul>
General diet with oral nutritional supplement (e.g. Ensure Plus Calories) BID
<ul> <li>Gum chewing x 15 minutes while awake, 3 times a day</li> <li>Nausea controlled</li> </ul>
<ul> <li>Voiding adequately (urine output greater than 30 mLs/hr)</li> <li>Passing flatus</li> <li>Note any normal BM</li> <li>Note any diarrhea</li> </ul>
<ul> <li>Nurse will anticipate and discuss patient's/families concerns and fears related to surgery</li> <li>Information needs met</li> </ul>
<ul> <li>Airway patent</li> <li>Vital signs and temp stable within normal range/satisfactory</li> <li>Neck incision well approximated</li> <li>Hemovac drain(s) output/colour within normal range/satisfactory</li> <li>Patient states pain is at an acceptable level</li> <li>Nausea controlled</li> <li>Tolerates oral intake</li> <li>Fluids and electrolytes balanced</li> <li>Patient describes anxiety as acceptable</li> <li>Patient able to self manage self care of hemovac drain if applicable</li> <li>Mobilizing independently - at baseline level of function</li> </ul>

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# Developed By

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Last Revised:	
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