









Diagnosis: Tracheostomy, Cancer

#### **Simulated Learning Environment Rules**

#### **General Rules**

- 1. Students will be issued with nametags at the commencement of the learning activity. These should be worn at all times.
- 2. Participating students must wear their clinical uniform.
- 3. Students are not to bring food or drink into the simulation laboratories.
- 4. To prevent tripping hazards, all bags and coats must be stored in the bag racks/lockers provided.
- 5. For your safety we recommend that you wear protective clothing (lab coat, gown, goggles, mask and/or gloves) relevant to the task being undertaken.
- 6. Wash your hands upon entering and leaving the simulation laboratories.
- 7. Immediately report any injury or near miss to a member of staff.
- 8. In the event of damage to or malfunction of equipment, immediately stop using it and advise staff.
- 9. Do not remove equipment or models from the laboratories without prior approval of staff.
- 10. Be considerate: keep noise to a minimum; there is often more than one group working in the labs.
- 11. Consult staff about any lost or found property.
- 12. Any deliberate damage, defacing or theft of University property must be dealt with as outlined in the Incident Reporting and Investigation policy; <a href="http://policy.unimelb.edu.au/UOM0364">http://policy.unimelb.edu.au/UOM0364</a>
- 13. You may be asked to leave the laboratories if your behaviour is inappropriate.
- 14. Mobile phones must be placed on silent and conversations with external parties during laboratory lessons are to be avoided.
- 15. If you are unsure of something, please ask staff.

#### **Dress Code**

An appropriate code of dress applies to the simulated learning environment. This is to encourage students to reflect upon their own professional image, practice the implementation of Infection Control principles and Occupational Health and Safety (OH&S) standards as well as facilitating best practice.

- **Shoes** must be clean and in good repair. Sensible, flat-soled and comfortable shoes are encouraged to promote safety and prevent trauma. Open toed or slip-on backless shoes are not suitable.
- Jewellery should be plain and restricted to minimum usage. The following items of jewellery are permitted: wrist or fob watch, wedding ring, stud earrings (earrings of any other description are not permitted). Facial rings are not permitted for Occupational Health and Safety reasons. If necessary they may be replaced by studs. Nail rings are not permitted.
- Nails are to be kept short (less than ¼ cm), natural fingernails with fresh clear nail polish or none at all. Please note that artificial / acrylic nails harbour pathogens, especially gram-negative bacilli and yeasts and are not suitable for clinical practice.
- **Hair** should be clean, neat and tidy. It should be kept off the face and secured as to not interfere with patient care procedures. To facilitate this, hair should be tied back once it is collar-length. Hair accessories should be plain / neutral and in keeping with a professional image.

















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**Student Guide** 

#### **Overview**

Target Audience: 2nd year Speech Pathology, Social Work, Physiotherapy and Nursing students

Estimated pre briefing time: 20 minutes

**Estimated simulation time (Part A):** 30 minutes **Estimated simulation time (Part B):** 30 minutes

**Estimated debriefing time:** 60 minutes

**Setting (Part A):** pre-admission clinic in a tertiary hospital.

**Setting (Part B):** Surgical ward (ear nose and throat / plastic surgery) in a tertiary hospital.

**Simulation method (Part A):** simulated patient playing role of David.

**Simulation method (Part B):** immersive simulation using SimMan 3G manikin and simulated patient.

#### Brief summary of scenario

Cancer is a major health problem in Australia today. This year, more than 530,000 new cases of cancer will be diagnosed in the Australian population. Of these, roughly 430,000 people will be treated for one or more non-melanoma skin cancers - two in three Australians will develop at least one of these cancers by the time they are 70. It is estimated that more than 43,000 people will die of cancer this year (National Health and Medical Research Council, 2012). This case presents a patient who has recently been diagnosed with tongue cancer and is to undergo complex head and neck surgery with a temporary tracheostomy.

In Part A, students from speech pathology and social work will be introduced to the patient in the preadmission clinic, where he is being prepared for his operation. Pre-admission assessments are conducted for patients who have planned admissions to hospital. The pre-admission assessment determines the patient's fitness for procedures and ensures that adequate arrangements are made in preparation for hospitalisation (Queensland Health, 1998). Social work students will explore the patient's coping skills in relation to his cancer diagnosis and upcoming surgery. The surgery will leave the patient with speech changes (due to tongue and mouth surgery) and a temporary loss of voice (due to the temporary tracheostomy); therefore the focus for speech pathology students will be education regarding alternative methods of communication. A 30 minute appointment for both speech pathology and social work has been made. Students are to work together to plan their intervention and then complete their initial assessment and intervention within this time frame.

















In Part B, students from nursing and physiotherapy will be involved in the care of the patient in the early period after his operation. The scenario will take place on a surgical ward and students will be required to work together to optimise the patient's respiratory function. A 30 minute period will be available for the completion of a joint assessment and intervention, prior to the patient being transferred from the ward. The scenario will be delivered using a high fidelity patient manikin as well as a simulated patient, with changes in the patient's parameters occurring in response to intervention.

















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	Learning objectives						
Int	erprofessional						
	<b>Interpersonal and Communication Skills</b> : Communicates sensitively in a responsive and responsible manner demonstrating the interpersonal skills necessary for interprofessional collaboration						
	<b>Patient-Centred and/or Family-Focused Care</b> : Through working with others negotiates and provides optimal integrated care by being respectful of and responsive to patient/client and/or family perspectives, needs and values						
	<b>Collaborative Decision Making</b> : Establishes and maintains effective and healthy working partnerships with other professionals whether or not a formalised team exists						
	<b>Roles and Responsibilities:</b> Consults, seeks advice and confers with other team members based on an understanding of everyone's capabilities, expertise and culture						
[]	<b>Team Functioning</b> : Uses team building skills to negotiate, manage conflict, mediate between different interests and facilitate building of partnerships within a formalised team setting						
	urce: The British Columbia Competency Framework for Interprofessional Collaboration, 2008)  Scipline Specific - Speech Pathology						
	Educate a patient about communication changes following surgery and related to the temporary tracheostomy						
	Determine an appropriate method(s) of non-verbal communication for a patient undergoing complex head and neck surgery + tracheostomy, taking into consideration the patient's unique						
	abilities, preferences and circumstances. Explain and educate a patient regarding the selected non-verbal method(s) of communication						
	Assess patient performance using non-verbal method(s) of communication and make appropriate modifications based on assessment findings						
	Work with the client to establish his communication needs and discuss education of his communication partners						
Dis	Discipline Specific - Social Work						
	Establish the client-worker relationship in the context of a brief intervention Explore the client's story around his cancer diagnosis and treatment Conduct a psychosocial assessment of the client's situation Work with the client to identify key goals for the immediate term Enable client in developing a viable intervention plan to achieve agreed goals Support client to implement actions and decisions						
Die	scipling Specific – Physiotherapy						

















	Conduct an appropriate respiratory assessment for a patient who has recently undergone complex head and neck surgery + tracheostomy
	Select and implement appropriate modifications to respiratory management (including oxygen therapy and humidification) based on assessment findings
	Demonstrate a safe and clean technique when suctioning via a tracheostomy  Make appropriate recommendations for ongoing respiratory management
Dis	cipline Specific - Nursing
	Conduct an appropriate respiratory assessment for a patient who has recently undergone complex head and neck surgery + tracheostomy
	Select and implement appropriate modifications to respiratory management (including oxygen therapy and humidification) based on assessment findings
	Demonstrate safe and clean technique when suctioning via a tracheostomy
	Demonstrate safe and appropriate administration of inhaled medications via a tracheostomy

















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### Patient story (Part A)

David Thomas is a 54 year old male who was recently diagnosed with an invasive left lateral tongue squamous cell carcinoma. He is scheduled to undergo a partial glossectomy to excise the tumour next week. The tongue and floor of mouth defect will be reconstructed with a left radial free forearm flap. The radial defect will be closed with a split skin graft from the left thigh. In addition, a surgical tracheostomy will be inserted to manage his airway and secretions in the early postoperative period. This is a complex procedure involving participation from multiple surgical teams - oromaxillary facial surgeons, ear, nose and throat surgeons and plastic surgeons. The procedure will be performed via a general anaesthetic and is likely to take up to 12 hours to complete. Depending on his progress, David will remain in hospital for up to two weeks after surgery. In the early period after surgery, David will not be able to eat and drink and will be fed via a nasogastric tube. While the tracheostomy is in place. David will be unable to vocalise. Following removal of the tracheostomy (approximately one week after surgery), he will continue to have difficulties with his speech due to the swelling and trauma associated with the operation as well as the loss of half his tongue. David has been diagnosed with Stage II cancer - investigations have indicated that David's tumour is approximately 3cm in size, with no spread to the lymph nodes. While surgery will give him a good chance of cure, he will most likely require a period of radiotherapy and chemotherapy to improve his prospects.

Today David will be attending the preadmission clinic for multidisciplinary assessment and operative preparation. The following Allied Health referrals have been made:

#### **Speech Pathology:**

Please review this 54 year old male scheduled for L RFFF reconstruction of L FOM and lateral tongue defect + temporary tracheostomy. Needs advice re communication options for post op period.

#### **Social Work:**

Please review this 54 year old male scheduled for complex facial surgery following tongue cancer diagnosis. Patient anxious in regards to surgery and reports he has struggled emotionally with cancer finding.

The preadmission clinic has scheduled a 30 minute appointment for speech pathology and social work to review David prior to his surgery.

















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**Student Guide** 

### Patient story (Part B)

David Thomas is a 54 year old male who was recently diagnosed with an invasive left lateral tongue squamous cell carcinoma. Yesterday he underwent a partial glossectomy to excise the tumour. The tongue and floor of mouth defect were reconstructed with a left radial free forearm flap. The radial defect was closed with a split skin graft from the left thigh. In addition, a surgical tracheostomy was inserted to manage his airway and secretions in the early postoperative period. This was a complex procedure involving participation from multiple surgical teams - oromaxillary facial surgeons, ear, nose and throat surgeons and plastic surgeons. Despite the long operation time, the surgery went as planned and initial reports from the surgeons suggest that he has a good chance of cure.

David is currently being cared for on the surgical ward. He has recovered well from the operation, but has had some difficulty with his respiratory function. He is receiving humidified oxygen via a Fisher and Paykel humidifier and a tracheostomy shield. He has thick secretions which he is unable to clear himself, and required suctioning this morning. He has also reported that his chest feels "a little tight". The morning medical ward round has requested a physiotherapy review for respiratory management. It is usual practice on the ward for the nurse and physiotherapist to work collaboratively when managing the patient's respiratory care.

David is due to go to radiology to have a chest x-ray performed in approximately 30 minutes time. The nurse in charge has instructed you to "have a look" at David and try to improve his respiratory status prior to his transport.

### **Patient Information**

The remaining pages contain the patient history for the pre-admission and postoperative period.

















# **Pre-admission History Form**

David Thomas 016897
M 04/09/59 English
3/8 William Street, Cohuna VIC

Admission Details								
Proposed Procedure	Partial glossectomy and	Augaconstruc	tion.					
Date of Schedule	9/5/13	N'ewisi'uc	<i>ww</i>					
Surgeon	Wright/Li	Admitting U	Init	OMFS/Plastics				
Expected length of stay	7 days	Height: 172		Weight: 73kg				
Allergies		No	Yes	Weight. 13kg				
Do you have any allergies sticking plaster, latex/ rub gloves) or other substance	ber (e.g. balloons,	<b>✓</b>		Details:				
Medications		No	Yes					
Do you take any anti-coag therapy? (warfarin, Coum Aspirin) Do you take any steroids,	adin, Plavix, Iscover,			Date last taken Or still take □ Yes  Name of medication:				
or cortisone tablets/injec	tions	<u> </u>		Date last taken:				
All regular medication	s not listed above	Dose / Fre		Reason for taking				
Ventolín		Puffer when		Asthma				
Omeprazole		20mg dail	у	Reflux				
D ' O ' '	n 1	**		**				
Previous Operations /	Procedures	Year		Hospital				
Endoscopy		2013		Bendigo				
Do you have or have yo following conditions?	No	Yes	Details:					
High blood pressure		$\checkmark$						
Chest pain or angina		$\checkmark$						
Heart attack		$\checkmark$						
Palpitations or irregular heartbeat		$\checkmark$						
Pacemaker or prosthetic h	$\checkmark$							
Rheumatic fever	$\checkmark$							
Heart murmur	<b>V</b>							
Any other heart condition	$\checkmark$							

















Asthma		V	Ventolín puffer
Bronchitis or emphysema	V		·
Pneumonia or tuberculosis	V		
Obstructive sleep apnoea as diagnosed by your	<b>7</b>		
doctor	V		
Shortness of breath that prevents you from	$\overline{\checkmark}$		
climbing one flight of stairs			
Home oxygen therapy	<u> </u>		
Hepatitis, jaundice, cirrhosis or pancreatitis	<u> </u>		
Kidney disorders- stones, infection, failure, dialysis	<u> </u>		
Organ transplant	V		
Diabetes	$\overline{\checkmark}$		
Gastric reflux, hiatus hernia, heartburn, indigestion		$\overline{\checkmark}$	Take daily medication
Stroke	$\overline{\checkmark}$		
Epilepsy, fits, fainting or "funny turns"	$\overline{\mathbf{V}}$		
Cancer		$\checkmark$	
Significant neck or back injury / disorder	$\checkmark$		
Bleeding disorder	$\checkmark$		
Blood transfusion	$\checkmark$		
Blood clot in the legs or lungs	$\checkmark$		
Exposure to Creutzfeldt Jakob Disease (CJD)	$\checkmark$		
Psychiatric condition	$\checkmark$		
Thyroid problems	$\checkmark$		
Any problems with anaesthetics or surgery before	$\overline{\checkmark}$		
Do you have any other conditions or infections that	<b>V</b>		
may require further explanation	V		
Lifestyle	<b>.</b>		
Have you ever smoked?		$\overline{\checkmark}$	Daily amount: or
			Date ceased: 2 years ago
Do you drink alcohol?		<b>V</b>	Daily amount: 4-5 drinks
Do you use recreational drugs?	<u> </u>		Type:
Do you require a special diet?	$\overline{\mathbf{V}}$		Type of diet:
Prostheses / Aids	No	Yes	
Glasses/ Contact lenses	$\overline{\mathbf{V}}$		
Hearing Aid or other hearing device	$\overline{\checkmark}$		
Dentures / Caps/ Crowns/ Loose teeth	$\overline{\checkmark}$		
Discharge Planning	No	Yes	
Do you live alone?		$\overline{V}$	
Do you have someone to look after you after		<b>V</b>	Name of person: Kathy Bruce
discharge?		💆	Relationship: Partner

















				Cont	act number:	0409 010		
Are you solely responsible person at home?								
Do you currently receive of services?								
Do you require assistance day living?								
Where do you plan to go a								
Preadmission Health	Assessments							
	Appointment Made	Name			Date			
Nursing	ursing 09:00		Kate Ryan			3/5/2013		
Medical 10:30								
Anaesthetics 10:00								
Allied Health	9:30 Social Work & Speech Pathology							

















Patient Admission Form						
Surname		URN				
Thomas		016897				
Given Name		DOB				
David		04/09/59				
Sex		Country of Birth				
Male		Australia				
Spoken Language		Ab or TSI State	tus			
English		N				
Religion		Marital Status				
Methodist		Single				
Residential Address		Suburb				
3/8 William Street		Cohuna VIC				
Postcode		Contact Teleph	one			
3568		0415 106 658				
Medicare Number	Medicare Expiry	/	Pension Number			
3315 68975 4	08/2016					
Insurance Fund	Insurance Plan		Insurance Number			
NOK/ Contact Person						
NOK Name		Address				
Kathy Bruce		4 Dunn Street, Cohuna 3568				
NOK Phone		Relationship				
0409 010 112		Partner				
GP Details						
Name		Address				
Cohuna Clinic		111 King George Street				
Suburb		Postcode				
Cohuna		3568				
Ph number		Fax Number				
5456 2605		5456 2051				
Admission Details						
Presenting Problem		Admitting Unit				
Partial Glossectomy		OMFS / Plastics				

















		David Thomas 016897
	Inpatient Progress Notes	M 04/09/59 English
		3/8 William Street, Cohuna VIC
09/05/13	Nursing (night)	
	Pt adm to ward from OT @ 2300hrs post partial gl	lossectomy, L RFFF reconstructíon of L
	FOM, lateral tongue deficit, donor primary closed	with SSG. Trache Size 7 in situ. DT X1
	in situ in L side of neck. IDC in situ. IVT 8/24 CS	SL, PCA morph. Pt c/o 5/10 P. Pt also c/o
	anxiety. Reassured ++. Flap pale/pink, warm, st	rong Doppler, soft. ½ hourly flap obs
	until 2000hrs, Pt alert and communicating with i	íPad.
		L. Smíth (RN)
10/05/13	Plastics (am WR)	
	D1 post WLE L lat tongue, R SOHND + L RFFF	
	Borderline UO - 30 mL/hr	
	DT 90 mLs	
	Currently 02 dependent 5L F&P	
	Maintaining BP - 100	
	Flap looks good, pink, warm, strong Doppler	
	P: fluid bolus	
	Sit up, SOOB	
	Monitor BP & UD	
	Chest PT	
	Ok to start NGT feeds	R. Friedman
		#20568
10/05/13	OMFS (am WR)	
_	Dlpostop	
	DT 150mLs (la redivac)	
	H 106, WCC 15.7	
_	Pt well, GCS 15, obs stable, afebrile	
	Fluid state: BP slightly lower than usual	
	NO borderline - bolus and observe	
	Flap looks good	
	Trache in situ, Oz sats 93%	
	Pt many questions.	5. Singh
	P: PT review	#21989

















# **Operation Notes**

David Thomas 016897

M 04/09/59 English

3/8 William Street, Cohuna VIC

<u>CHx:</u> Panendoscopy 1/12 ago and biopsy of superficially invasive SCC L tongue. Unable to fully visualise, therefore MRI performed. T2, N0 SCC diagnosed – 2-3cm in size.

PHx: ex-smoker, quit 2 years ago (20 cpd), GORD, asthma

Meds: salbutamol MDI prn, Omeprazole 20mg daily

ASA: 2

#### **Summary of Operation**

09/05/13 Partial glossectomy and reconstruction performed

OFMS component: WLE L lateral tongue and L SOHND

Plastics component: reconstruction of L FOM and lateral tongue defect with L RFFF and L thigh SSG

NGT placed intraoperatively for feeds

11.5 hour operation via GA

Operation completed as planned, routine postoperative recovery

Postop orders:

**RPAO** 

Head up 30°

Half hourly flap obs

IV ABs

**DVT** prophylaxis

Drains in situ – suction

Aim: SBP ≥ 100 mmHg, HR ≥60 ≤100 bpm, T ≥ 36.5°C, UO ≥ 30mL/hr, Hb ≥ 80

Check FBE and U&Es in am

Start NGT feeds in am

















					Da	vid	Т	homas	01	6897
		<b>Medication C</b>	hart		М		0	4/09/	59 Er	ıglish
					3/	8 V	/illiam	Street,	Cohun	a VIC
Date 9/5	Medication Morphin	(Print Generic Name) ℓ	Date							
Route (∨	Dose PCA	Hourly frequency	Time							
Indication		Pharmacy	Dose Route							
Prescriber si J Marr	gnature	Print your name  J Marr	Sign							
Date 9/5	Medication Omepraz	(Print Generic Name) zole	Date	10/ 5						
Route	Dose 40mg	Hourly frequency daily	Time	08 00						
Indication	•	Pharmacy	Dose Route	40 IV						
Prescriber si J Marr	gnature	Print your name  J Marr	Sign	KN						
Date 9/5	Medication Salbuta	(Print Generic Name) wol	Date							
Route ính	Dose 5mg	Hourly frequency 4 hourly PRN	Time							
Indication Wheeze	•	Pharmacy	Dose Route							
Prescriber	signature	Print your name  J Marr	Sign							
Date 9/5	Medication Normal	(Print Generic Name) Saline 0.9%	Date							
Route ính	Dose 10mL	Hourly frequency 4 hourly PRN	Time							
Indication	•	Pharmacy	Dose Route							
Prescriber signature Print your name  J. Marr  J. Mary		Sign								

















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Student Notes					





