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Less is more: A simple chest drain site dressing is good enough

QEH CTS RN Wong Pui Shan Fiona 16 May 2013 (Thu) HAHO

Chest Drain Site Dressing

→Easy→Basic nursing training



Lack of Consensus

- Not conform to guidelines
- Based on individual preferences

(Tang, Velissaris, & Weeden, 1999)

• Little clinical evidence

(Avery, 2000)

- Less well-established standards of care
- Experiential recommendations

(Lehwaldt & Timmins, 2007)











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Disadvantages

- Large amounts of tape and padding
- Clumsy & unhandy
- Time consuming to remove
- Obstacle in emergency situations
- Unpleasant & painful experience
- Skin irritation
- ? Prevention of dislodgement
- Restriction of chest wall movement



Objectives

- Change the CD site dressing safely with minimal discomfort / pain
- Secure the dressing and chest tube appropriately

(The Joanna Briggs Institute, 2002)

Utilize materials efficiently & effectively



Suggestions

- A small, dry non-adherent surgical dressing with an adhesive border
- Avoid heavy strapping
- Site checking daily, change dressing every 48-72 hours unless soiled

(Avery, 2000)

- Avoid large amounts of tape and padding
- An omental tag

(BTS Guideline, 2010)

Taping the Connection

- Controversial
- If necessary → use of transparent, waterproof and secure tapings

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(Lit, 2009)
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Simple CD Site Dressing With An Omental Tag Used in CTS QEH





Methodology

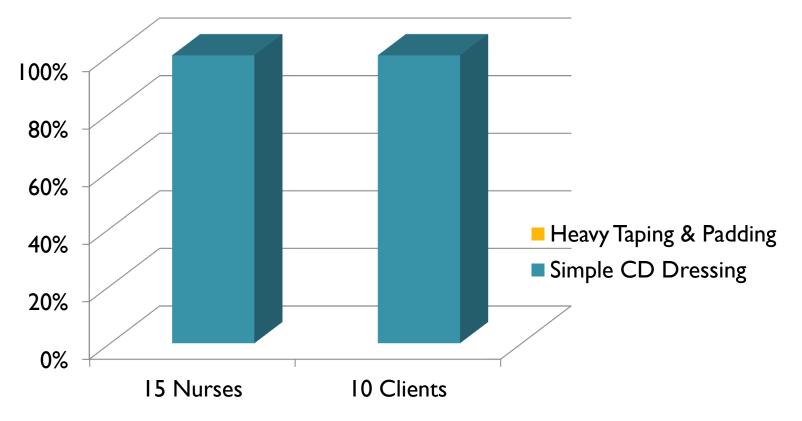
- Direct observation technique \rightarrow CD chart
- Face-to-face interviews
- I0 clients → comfort, mobility, sleeping quality, skin irritability & chest wall movement
- I5 nursing staff members → ease of assessment, cost effectiveness, time expenditure & incidence of dislodgement

Chest Drain Observation Chart

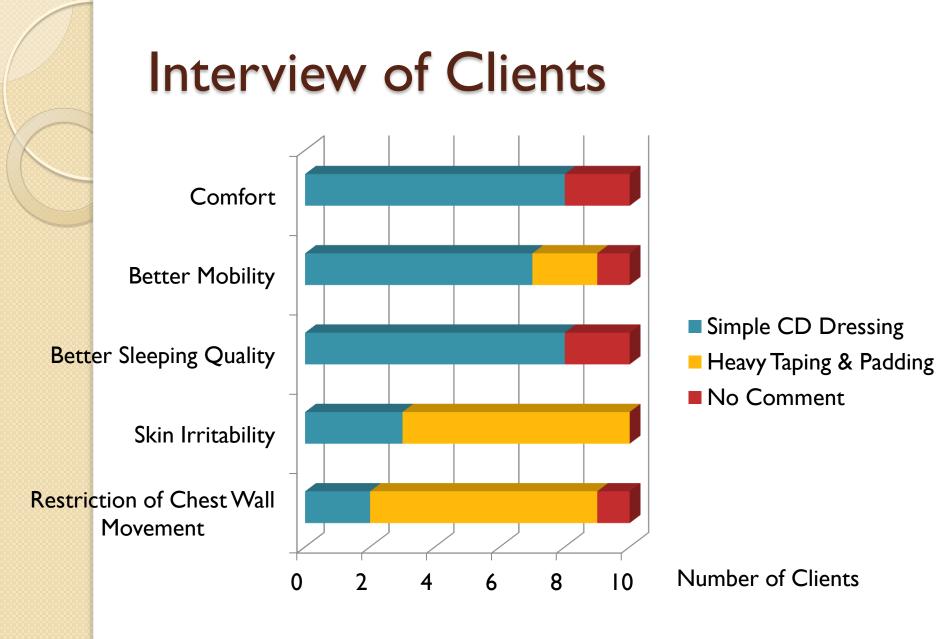
(RAI) 3 ME BR OUTEN SUZABITH HOSPITAL Department of Cardiothoracic Surgery Chest Drainage System Monitoring							Affix Patient's Gum Label HIN 10005000 M/28							
Items	-	-	Date	1/3/12	2	3	4	5	6	7	8	9	10	
items	Tin		4	2ka				-					1	
Suction Force (kpa / cmH ₂ O)	Р													
	A			V									-	
Connections are secure	P			K									-	
	N												-	
Tubing & bottle are below chest level and system is water sealed	A			V									-	
	P N												-	
	A		V								1	1-		
Water level is swinging in tubing	P													
		1											-	
Amount & Nature of Drainage : F.B. (Fresh Blood) O.B. (Old Blood) B.S. (Blood-Stained) S.F. (Serous Fluid)	A	A	Amt Nature	50	-							+	-	
			Amt	BSF									1	
		8	Nature											
		A	Amt										-	
	P	-	Nature										+	
		в	Amt Nature										+	
	N		Amt										1	
		A	Nature											
		B	Amt										+	
		To	Nature							-			+	
Presence of Air Leakage (Bubble)	A	T	A	+VR		-							1	
			B										-	
	P	-	A										-	
		+	A								-		-	
	N	F	B											
Position of tubing is free from kinking & pulling	A		V											
	PN											-		
No dependent loop is found along the tubing	A			V		-								
	P													
	A			-ve			-		-				-	
Observation of Subcutaneous Emphysema	P			Ve										
	N					-								
Inspection of C/D dressing		A P N												



Interview Results

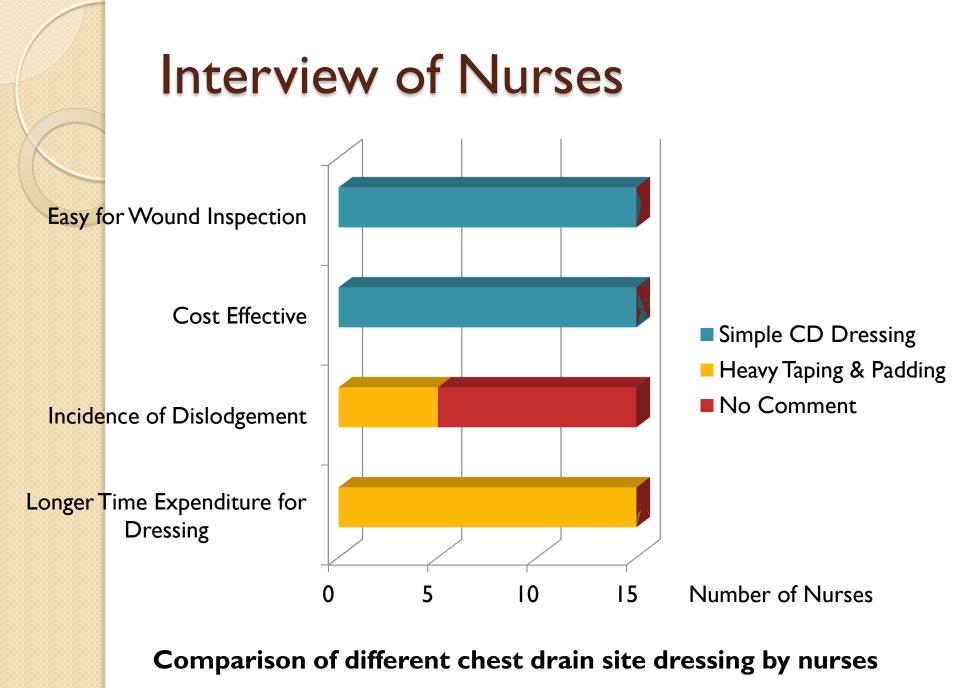


Choice of CD site dressing by nurses and clients



Comparison of different chest drain site dressing by clients

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Conclusion

Simple chest drain site dressing can

- Ensure clients' comfort
- Allow better chest wall movement
- Prevent unnecessary sufferings
- Cause fewer skin allergy
- Save time
- Meet cost effectiveness requirement
- Cause no increase in dislodgement

Less is more: A simple chest drain site dressing is good enough





- Dr. C C Ma (COS CTS QEH)
- Ms.W C Li (DOM NEU/MSW/CTS QEH)
- Mr.W H Kwok (WM H7 CTS QEH)
- Ms. S H Fok (WM G7 CTS QEH)
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- Mr. J H Lai (RN CTS QEH)



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Thank you!