Poster sessions

finance teams, staff costs include the full cost to the organisation including superannuation (13%) and national insurance contributions.

Results 8(33.3%) of 24 SP were discharged from ED. 16(PSP: SPS = 7:9) were admitted; 10 (62.5%) accepted to have DC. Please see the results tabulated.

Conclusions Carefully organised DC for SP is safe, cost effective and meets with high patient approval and satisfaction.

TABLE 1: Ayrshire Criteria for Domiciliary Care (DC) of Spontaneous Pneumothorax with HV Patient has Persistent Air Leak				rax with HV	Table 4: Potential resultant Cost Savings by providing Domiciliary Care (IOC) for eligible patients with Spontaneous Pneumothoraces (SP) using an ambulatory Heimlich Valve (HV).			
Patient understands Pneumothorax and treatment principles					Cost avoidance by DC for SP (Table 2) minus Cost of resource use in delivering service (Table 3)			
Patient is independent for all ADLs						,		
Patient has family at home					= £20,464.14			
Patient understands Heimlich Valve (HV) action				(HV) action	F	For 10 patients with a mean Aryshire Index of 62%		
Patient and	famil	y want Do	omiciliary C	are with HV	Table Fr	Complications encountered with our cohort of patients		
Patient	willing	to come	for 72 hou	rly CWR	Table 5:	with DC for SP with HV		
Patient has telephone at home				ne		1) One patient became anxious with DCReadmitted		
Patient agrees to only sponge bath during DC				during DC	One patient had minor self limited surgical emphysema continued with DC. Uneventful resolution			
Dation	4 - 1-1-	to ober i	oformed as		continued with DC. Uneventful resolution 3) One patient disconnected the ICD himself and reconnected it as he			
Patient able to give informed consent Nursing staff express no concerns				***************************************	thought the HV was blocked. This Patient was removed from DC as his compliance with medical instructions was deem inadequate. He			
INDEX Duration of DC of SP with HV as % of a m		days by DC SP with lean re Index	Cost avoidance	No episo	of the rest of his treatment as an in-patient. He did not suffer plications. des of infections des of bleeding, des of tension Pneumothoraces s			
Mean for 10 patients = 62% (Range 8%-94%)		59		£26,432		Table 6: Patient Satisfaction with Domiciliary Care (DC) for eligible patients with Spontaneou		
TABLE 3: Cos	t of F	Resourc	e Use in I	Delivering DC fo	r SP	Pneumothoraces (SP) using an ambulatory Heimlich Valve (HV)		
Cost of Ambulatory Bag With HV (Bags changed once a week)	£1 vis	est of VR @ 62 per sit e visit ery 72 urs per on DC	Cost of Xray @ £52 per CXR	Additional Costs Consultant time @ £28.30 per patient plus One off Nurse Training cost £262.91)	Total resource cost To provide DC for 10 SP's with HV	Assessed continuously during CNR and formally with a Patient Sastifaction Questiormaire. Some relevant responses are given below Overall Patient Satisfaction with Service: High Did patients flav supported throughout DC: Compitelly Agree (100%) Were patients given sufficient information prior to consent: - Disc. Were patients worried when DC for SP was suggested? Somewhat: 15% Notat all: 30% Notat all: 30%		
		£3,888 £1,3		£545.86	£5,967.86	A little : 55% What helped patients make up mind to have DC for SP? a) Wanted to be at home for my treatment b) Confidence in the medical team		

Abstract 211 Figure 1

P212 SHOULD INTERCOSTAL TUBE DRAINAGE BE THE FIRST INTERVENTION IN THE MANAGEMENT OF PRIMARY SPONTANEOUS PNEUMOTHORAX WITH COMPLETE LUNG COLLAPSE?

MB Ganaie, S Bikmalla, MA Khalil, MA Afridi, M Haris, IR Hussain; *University Hospitals of North Staffordshire, Stoke-on-Trent, United Kingdom*

10.1136/thoraxjnl-2013-204457.364

Introduction and Objectives Primary Spontaneous Pneumothorax (PSP) is a common presentation with significant variation in severity and treatment strategies globally. There is no differentiation between 'large' PSP with complete lung collapse and 'large pneumothorax' in the current treatment algorithms. Previous studies comparing needle aspiration (NA) and intercostal tube (ICT) drainage for all PSP requiring intervention have shown no significant difference in immediate success rate, early failure rate and length of stay. We aimed to compare NA with ICT as the first intervention in those with complete lung collapse.

Methods Retrospective, observational study of 212 consecutive pneumothorax episodes between January 2012 and December 2012. Those with secondary spontaneous pneumothorax (SSP), history of trauma and iatrogenic pneumothorax were excluded. Pneumothorax with no visible aerated ipsilateral lung on plain chest radiograph was defined as 'complete lung collapse'. Patient records and plain chest radiographs on PACS were reviewed and data was analysed. Values of p < 0.05 were considered statistically significant.

Results Of the 212 episodes, 51 (33%) were PSP. Median age was 29 years (IQR 22–38); male 33(75%), female 18(25%). 5 (1%) were observed; 28(55%) had NA and 18(36%) had ICT as 1st intervention. NA was successful in 13(46%) which is comparable to previous studies. 33(65%) required hospitalisation and median length of stay (LOS) for all PSP was 4 days. 18(35%) required definitive surgical intervention.

Conclusion Our results show significantly better lung re-inflation rates with ICT as the first intervention in the management of PSP with complete lung collapse and there was no added benefit in performing NA. We propose a further sub-group of PSP with complete lung collapse in which NA should not be attempted, however well-designed prospective studies are required to validate this.

	Needle aspiration	ICT drainage as	P value
	as 1 st intervention	1 st intervention	
	(n=6)	(n=10)	
Age, years, median(IQR)	30 (25-32)	32.5 (29-38)	>0.99
Smoking history	1 (17%)	3 (30%)	>0.99
Never smoked, n(%)	2 (33%)	1 (10%)	0.51
Ex-smokers, n(%)	3 (50%)	6 (60%)	>0.99
Current smokers, n(%)			
Symptoms	5 (83%)	8 (80%)	>0.99
Chest pain, n (%)	4 (67%)	10 (100%)	0.125
Dyspnoea, n (%)			
Length of stay, days, median(IQR)	5.5 (4-10)	9 (4-13)	-
Successful lung re-expansion, n(%)	0	6 (60%)	0.03
Requiring surgical intervention, n(%)	2 (33%)	4 (40%)	>0.99

Categorical variables shown as n(%), comparisons made with Fisher's exact test;

Continuous variables shown as median (25th – 75thpercentile), comparisons made with Wilcoxon signed rank test.

NEVER EVENTS & THE CHECKLIST MANIFESTO FOR INTERCOSTAL CHEST DRAINS

B Khan; Darent Valley Hospital, Dartford, Kent, UK

10.1136/thoraxjnl-2013-204457.365

Background In the complex medical environment, clinicians commonly face varying challenges especially when undertaking invasive procedure with the risk of potential to harm patients. Checklists have a role in not only helping overcome human fallibility, but also ensuring that key steps are adhered to in order to ensure patient safety.

Intercostal chest drains are amongst the most invasive procedure undertaken in Internal Medicine, often out of hours and in emergent clinical situations, and possibly in less than ideal environments and with limited or no supervision. All of these factors have been highlighted in the 2008 UK National Patient Safety Agency (NPSA) report highlighting 780 events of harm including 12 deaths from intercostal chest drain insertions1. The NPSA Never Events2 list includes wrong site surgery, and in the respiratory discipline this encompasses the inserting of a chest drain on the wrong side. Never Events are preventable because: there is guidance that explains what the care or treatment should be; there is guidance to explain how risks and harm can be prevented; and there has been adequate notice and support to put systems in place to prevent them from happening.

Methodology A systematic review of available literature around chest drain insertion, proformas and checklists was conducted.

A172 Thorax 2013;68(Suppl 3):A1–A220