Poster sessions

from hospital and we followed the first admission of each. 28 533 (36%) patients were readmitted within 1-year and 8439 (11%) within 30 days. Patients readmitted within 30 days were more likely to be male (53% vs 50%; p<0.001), older (72.7 vs 71.6 yrs; p<0.001), live in a more deprived area (55% vs 51% highest quintile; p<0.001) and much more likely to die (30-day mortality 11% vs 3%; p<0.001; and 1-year mortality 40% vs 20%; p<0.001). For the index admission, patients readmitted within 30 days were more likely to have been admitted via A&E rather than via their GP (74% vs 70%; p<0.001), more likely to have had a LRTI (88% vs 83%; p<0.001), had a longer median length of stay (6 vs 5 days; p<0.001) and were more likely to have been discharged from the care of a chest physician (44% vs 40%; p<0.001). Hospitals with the lowest inpatient mortality during the first admission had the highest 30-day readmission rate (r=0.22; p<0.01). Early readmission would appear to be driven by demographics, severity of the index admission and disease severity which cannot be influenced by care delivery or organisation of care. It's possible that better care--keeping more patients alive during their index admission-may lead to those hospitals being penalised for a higher 30-day readmission rate.

P100

DESIGNING AND IMPLEMENTING A COPD DISCHARGE CARE BUNDLE

doi:10.1136/thoraxinl-2011-201054c.100

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Problem Acute exacerbations of COPD are a major cause of hospital admission and readmission. National surveys have revealed significant differences in patient outcomes which are likely to be due to variations in care.

Design A care bundle, comprising a short list of evidence-based practices to be implemented prior to discharge for all patients admitted with this condition was developed, based on a review of National Guidelines and other relevant literature, expert opinion and patient consultation. Implementation was then piloted using action research methodologies in an urban acute hospital.

Key measures for improvement Improvements in process measures based around the items in the care bundle were the provision of smoking cessation advice, referral for pulmonary rehabilitation, and review of inhaler technique. A 72 h post-discharge phone call was evaluated. Data from the first year of the bundle were compared with the year prior to its initiation including 30-day readmission rate.

Strategies for change The care bundle was launched with events to ensure staff awareness. Weekly meetings were held with review of bundle compliance so that areas for attention could be addressed promptly. A plan, do, study, act (PDSA) cycle approach was used. Examples included ongoing support to develop ward nurses' knowledge of correct inhaler use, nurses attending pulmonary rehabilitation sessions and the use of a "safe discharge" checklist.

Effects of change Referral to pulmonary rehabilitation increased by 158% and compliance with assessment for smoking cessation was 100%. Nurse confidence in inhaler technique improved. Roughly 10% of post discharge phone calls identified a cause for concern. The 30-day readmission rate was 10.8% for patients where the bundle was used (n=94) compared to 16.4% where it was not (n=365) (95% CI for difference -2.1% to 13.2%). The bundle has been accepted onto the list of CQUIN measures by London SHA and is being rolled out to further sites.

Lessons learnt Actively involving all staff is vital to ensure that the changes introduced are understood and the process followed. Implementation of a care bundle has the potential to produce a dramatic improvement in compliance with optimum health care measures.

P101

A SURVEY OF EMERGENCY OXYGEN GUIDELINE IMPLEMENTATION AMONG ALL 15 UK AMBULANCE SERVICES IN EARLY 2011

doi:10.1136/thoraxjnl-2011-201054c.101

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The British Thoracic Society (BTS), together with 21 other societies published a UK guideline for emergency oxygen use in 2008. This guideline was endorsed by the Joint Royal Colleges Ambulance Liaison Committee (JRCALC) who produced new oxygen guidance for ambulance crews in April 2009. We have conducted a survey of implementation of this guidance among UK Ambulance Services in early 2011. A questionnaire was sent to the Medical Directors of all 15 UK Ambulance Services and all, or their nominated deputies responded. Eleven of fifteen respondents reported full implementation of the 2009 JRCALC oxygen guidance throughout their service and ten of these reported that all relevant staff are trained in this area of practice. However, an informal survey of about 100 front line ambulance crews in one of these areas found that none were aware of the 2009 JRCALC document so the above figures may be aspirational and not yet achieved at operational level. Four services reported that they have completed audits of guideline implementation and a further three services are planning audits. All 15 services reported that 81%-100% of response vehicles were equipped with oximeters and the availability of oxygen masks was as follows: 15/15 reservoir masks; 12/15 simple face masks, 12/15 28% Venturi masks, 6/15 24% Venturi masks, 10/15 nasal cannulae. However, the informal survey of front-line staff from one ambulance service showed that Venturi masks were not actually available at operational level although the Regional response indicated universal availability. A separate survey found that no UK ambulance service has access to air cylinders, compressors or ultrasonic nebulisers for COPD patients so all nebulised treatment is oxygendriven. Six of 15 services reported that they had protocols to limit the duration of oxygen-driven nebuliser therapy for COPD patients. Two services have a record of all patients in their area who have an Oxygen Alert card. This survey suggests that UK Ambulance Services are taking steps to implement the BTS and JRCALC emergency oxygen guidance but it is unclear how much advice and equipment had been cascaded to front-line staff by Spring 2011.

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A SURVEY OF HOME OXYGEN PROVISION ACROSS LONDON

doi:10.1136/thoraxjnl-2011-201054c.102

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Introduction In preparing for 2012, we undertook a survey of current oxygen provision across London.

Methods A questionnaire was sent electronically (Survey Monkey) to 100 BTS Oxygen champions, oxygen leads in primary and secondary care, PCT prescribing advisors and community respiratory nurses around London.

Results From 60 returns the main findings were:

1. 75% of LTOT prescriptions initiated by hospitals yet no follow-up in 35%. 70% community teams reported "not at all" and "only sometimes" being informed about new starters