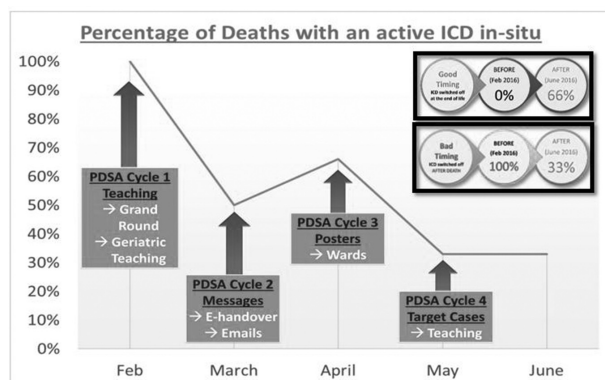


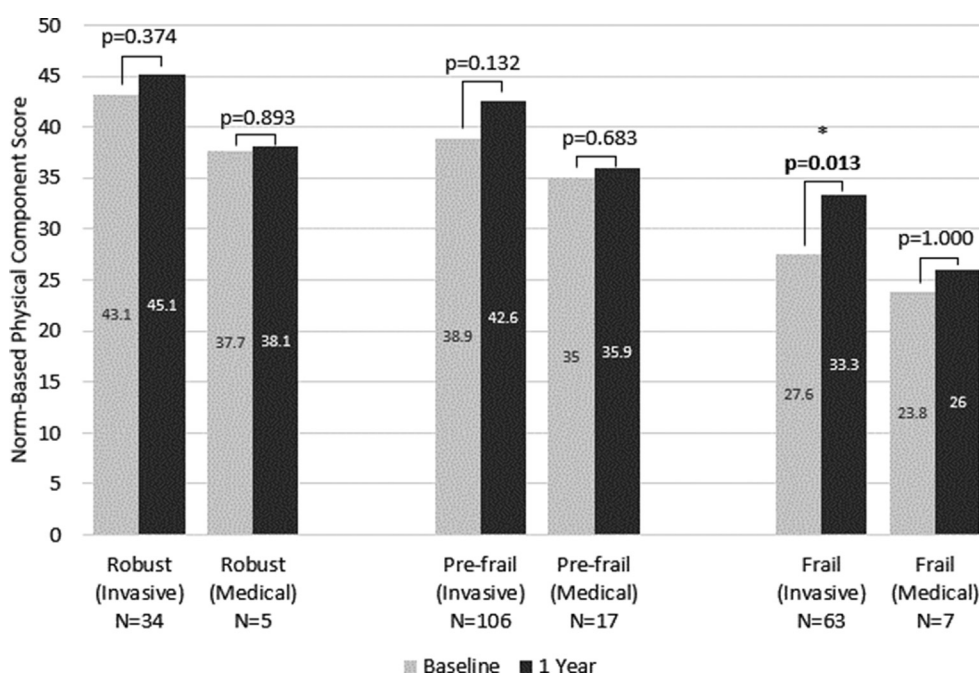
offs during the end of life care by 50%, over a 6 month period. Since January 2016, there were different interventions every month; including Grand round, departmental teaching, posters (Figure 1), implementing related questions in the palliative pathway and e-messages.

Results After 4 months, 66% of patients with an active ICD/CRT-D received discussions and switch-offs in advance with good timing before death (Figure 2). In turn, there was a strong impact on patient-centred care, quality and co-ordinated care, efficiency, effectiveness, cost and patient safety.



Abstract 53 Figure 2

Conclusions ICDs/CRT-Ds can save lives. However, patients reaching the end of life should be put at ease and comfort by discussing ICD/CRT-D deactivation at DNAR ('Do Not Attempt Resuscitation') discussion and have their ICD/CRT-D switched off in advance with good timing.



Abstract 54 Figure 1 Change In PCS By Frailty And Treatment

Acute Coronary Syndromes

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FRAIL OLDER PATIENTS HAVE A GREATER IMPROVEMENT IN PHYSICAL QUALITY OF LIFE THAN ROBUST PATIENTS AT ONE YEAR FOLLOWING INVASIVE TREATMENT FOR NON-ST ELEVATION ACUTE CORONARY SYNDROME

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Introduction Frailty, a vulnerability to physiological stressors due to a decline in reserve with age, is common in older patients who present with non-ST elevation coronary syndrome (NSTEMI) and is associated with a disproportionately high morbidity and mortality. We aimed to determine how frailty influences physical quality of life (QoL) outcomes after invasive treatment for NSTEMI.

Methods From February 2013 to April 2015, 232 patients aged 75 years with NSTEMI were enrolled into a multicentre prospective observational study. Frailty was assessed using the Fried criteria, where a score of 0 is robust, 1 or 2 is pre-frail and 3 is frail. QoL was evaluated using the Short Form-36 (SF-36) questionnaire (license number QM033917) at baseline and 1 year follow-up. The norm-based Physical Component Score (PCS), an aggregated summary score of the 8 SF-36 subscales, is reported.

Results Mean age was 81 ± 4 years, 60% were male and 88% received invasive treatment (percutaneous coronary intervention or coronary artery bypass grafting). At presentation, 39 (16.8%) patients were robust, 123 (53%) were pre-frail and 70 (30.2%) were frail. Increasing frailty was associated with decreased physical QoL at both baseline and 1 year ($p < 0.001$ for both time points). Although all frailty groups saw an increase in mean PCS, this difference was only statistically significant in frail patients (robust: 42.4 ± 11.4 to 44.3 ± 12.4 , $p = 0.372$; pre-frail: 38.4 ± 11.4 to 41.6 ± 11.7 , $p = 0.117$; frail: 27.2 ± 8.1 to 32.9 ± 12.7 , $p = 0.015$). In addition, only frail patients who received invasive treatment saw this significant increase in PCS between baseline and 1 year, although numbers receiving medical therapy was low (Figure 1).

Conclusion Although frail older patients with NSTEMI have a poorer physical QoL overall, our data suggest frailty is associated with a similar or greater improvement from baseline QoL in those who receive invasive treatment.

55 HIGH SERUM PARATHYROID HORMONE LEVELS ARE NOT ASSOCIATED WITH ENDOTHELIAL FUNCTION, VASCULAR STIFFNESS OR EARLY ADVERSE OUTCOMES AFTER INVASIVE MANAGEMENT OF NON-ST ELEVATION MYOCARDIAL INFARCTION IN HIGH-RISK OLDER PATIENTS

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Introduction High serum parathyroid hormone (PTH) levels are associated with increased risk of cardiovascular events. Older patients have an increased risk of adverse events after non-ST elevation acute coronary syndrome (NSTEMI) and PTH may be a useful biomarker in these patients. The link between PTH, endothelial function, vascular stiffness and early outcomes after NSTEMI was evaluated.

Methods Older patients (65 years old) referred for invasive management of NSTEMI were recruited into the study ($n = 204$). Serum PTH was measured by electrochemiluminescent immunoassay and split into tertiles for analysis. Vascular stiffness was evaluated with carotid-femoral pulse wave velocity (PWV). Endothelial function was assessed by peripheral arterial tonometry, reported as natural log reactive hyperaemia index. Major Adverse Cardiovascular Events (MACE) were defined as 30 day composite of all-cause mortality, acute coronary syndrome, unplanned repeat revascularisation, significant bleeding, stroke or transient ischaemic attack. Multiple linear and logistic regressions were performed to control for age, sex, hypertension, diabetes, glomerular filtration rate and smoking status.

Results Mean age was 80.7 ± 4.0 years (64.7% male). Median PTH was 5.9 pmol/L [IQR 4.3 – 7.8 pmol/L] and 81 patients (39.7%) had levels above the normal range (1.1 – 6.4 pmol/L).

There were 83 (40.7%) patients in the high (6.4 pmol/L), 62 (30.4%) in the middle (6.3 – 4.5 pmol/L) and 59 (28.9%) in the low tertile (4.4 pmol/L) of PTH. There was no difference in mean PWV (high 8.51 ± 1.77 metres per second (m/s); middle 9.89 ± 2.75 m/s; low 9.41 ± 2.09 m/s; $p = 0.646$) or mean natural log reactive hyperaemia index (high 0.64 ± 0.34 ; middle 0.61 ± 0.23 ; low 0.59 ± 0.25 ; $p = 0.684$) between PTH tertiles. There was no adjusted linear relationship between PTH and PWV ($p = 0.09$) or natural log reactive hyperaemia index ($p = 0.919$). MACE incidence did not vary between tertiles (high 2.4%; middle 1.6%; low 3.4%; $p = 0.819$) and adjusting for covariates, PTH was not predictive of MACE ($p = 0.308$).

Conclusion In this high-risk older cohort, high serum PTH levels are not linked with endothelial dysfunction or vascular stiffness and do not predict early adverse events after invasive management of NSTEMI.

56 HIGH SERUM PARATHYROID HORMONE LEVEL IS INDEPENDENTLY ASSOCIATED WITH CAROTID INTIMA-MEDIA THICKNESS IN OLDER PATIENTS UNDERGOING INVASIVE MANAGEMENT OF NON-ST ELEVATION MYOCARDIAL INFARCTION

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10.1136/heartjnl-2017-311726.55

Introduction Serum parathyroid hormone (PTH) levels, which are intimately linked to vitamin D status, are associated with an increased risk of cardiovascular events and mortality and may directly influence atherogenesis. Elevated carotid intima-media thickness (CIMT) is a non-invasive marker of subclinical atherosclerosis and is associated with cardiovascular disease, providing predictive power above traditional risk factors. The association between PTH levels and CIMT was evaluated in older patients undergoing invasive management of non ST-elevation acute coronary syndrome (NSTEMI).

Methods High-risk older patients ($n = 160$, aged 65 years) attending a tertiary centre for invasive management of NSTEMI had CIMT of the left and right posterior carotid artery measured using B-mode ultrasound (Vivid-I®, GE Healthcare). The largest CIMT measurement was used for analysis. Serum PTH was measured by electrochemiluminescent immunoassay. Statistical modelling was performed using multiple regression, controlled by the hierarchical addition of a priori selected potential confounders.

Results Mean age was 80.4 ± 4.0 years (64.7% male). Median PTH level was 5.6 pmol/L [IQR 4.0 – 6.8 pmol/L]. A significant relationship existed between logarithmically transformed serum PTH and CIMT (regression coefficient (B) = 0.230 , standard error of B (SEB) = 0.086 , standardised regression coefficient ($\hat{\beta}^2$) = 0.208 , $p = 0.008$) (Figure 1). The association was unchanged after adjustment for age, sex, glomerular filtration rate, body mass index, smoking status, hypertension and hypercholesterolemia (B = 0.219 , SEB = 0.094 , $\beta = 0.199$, $p = 0.021$). Addition of serum vitamin D resulted in a $< 10\%$ change in the regression