and 35 women) were included in the final analysis. Given the setting of unselected intake, there was significant heterogeneity in the weights of the cohort assessed, with inclusion of patients with low and very elevated BMIs. The BMI spread from the cohort is displayed in figure 1.

We considered a patient’s weight to have been addressed by the primary medical team if an overweight or obese status was discussed with the patient and/or documented in the admission note. 10 out of 39 patients who were overweight or obese had this documented in their admission note (26%). No patient had their BMI measured independent of a nutritionist’s input. Referral to dietetics was made in 75% of underweight patients, 33% of overweight patients, 11% of patients with class I obesity, 66% of those with class II obesity and 66% of those with class III obesity. 4% of patients had weight loss proposed in their management plan. Hypertension was a comorbidity in 50% of patients, with 34% of patients having a diagnosis of dyslipidaemia. Musculoskeletal disease was present in 26%, most commonly in the form of gout. Documentation of a patient’s weight is standard practice during a modern day hospital admission, mainly due to the necessity for weight-based medication dosing and accurate assessment of renal function. However, as it stands it is not the routine to calculate the body mass index during these same admissions. Nonetheless, calculation of the BMI represents the prerequisite to identifying and advocating for patients who are overweight and obese. We argue that it would be optimal for all admitted patients to have their height and weight measured during their admission, with subsequent calculation of the BMI. With an electronic patient record (due to be initiated in all public hospitals in Ireland in the coming years), the BMI could be published on patient record, with subsequent calculation of the BMI. With an electronic system, we argue that it would be optimal for all admitted patients to have their height and weight measured during their admission.

**Background**

Obesity is associated with many factors that predispose to cardiovascular disease, including hypertension, dyslipidaemia, and diabetes. Bariatric surgery has been shown to decrease cardiovascular disease risk. Coronary artery calcium scoring (CACS) is a non-invasive imaging technique that quantifies intra-arterial calcium resulting from atherosclerosis. Elevated CACS has been shown to be correlated with cardiovascular disease progression and morbidity. Currently it is not well established whether morbidly obese patients carry a coronary artery calcium burden or which factors are associated with a higher CACS in a bariatric surgical population pre-operatively.

**Methods**

Patients with no prior cardiovascular disease undergoing bariatric surgery were evaluated preoperatively for CACS. Age, sex, smoking status, diabetes status, blood pressure, serum lipids, pre- and post-operative weight and height were also recorded. A ten-year risk of fatal cardiovascular disease was calculated using the European Society of Cardiology’s SCORE tool. Patients were grouped into CACS=0 and CACS>0. Statistical analysis was performed utilizing the Student’s T-test for continuous variables and Chi Square test for categorical variables. P-values less than 0.05 were considered statistically significant.

**Results**

Between June 2008 and June 2019, 154 patients were evaluated. The mean (sd) age was 44(11) years. Thirty-six (23%) were male. Forty-eight (31%) patients had subclinical coronary artery calcium scores. Risk factors that were associated with CACS>0 were older age (mean 53(6) vs 40(10) years, p<0.001), male sex (37% vs 17%, p=0.005), diabetes (27% vs 12%, p=0.023), systolic blood pressure (141(17) mmHg vs 132(17) mmHg, p=0.004), and hyperlipidaemia requiring treatment (42% vs 7%, p<0.001). Higher cardiovascular risk scores were associated with CACS>0 (mean 1.2 (1.8) vs 0.29 (0.73), p<0.001). The absence of CAC pre-operatively was associated with greater excess weight loss at 12 month follow up (79.71(28)% vs 68.88(22)%), p=0.038). Conclusions Our study demonstrates that coronary artery calcium is associated with adverse cardiovascular risk factors in patients undergoing bariatric surgery.

**Abstract 36**

**Figure 1** BMI spread from the cohort of 74 patients

**Abstract 37**

**Table 1** Clinical and laboratory parameters in pre-operative bariatric surgery patients

<table>
<thead>
<tr>
<th>All Participants</th>
<th>CAC Score = 0</th>
<th>CAC Score &gt; 0</th>
<th>P Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patients, n (%)</td>
<td>154</td>
<td>106 (69)</td>
<td>48 (31)</td>
</tr>
<tr>
<td>Age, mean (SD)</td>
<td>44.25 (11.44)</td>
<td>40.11 (10.20)</td>
<td>53.29 (8.46)</td>
</tr>
<tr>
<td>Sex, male n (%)</td>
<td>36 (23)</td>
<td>18 (17)</td>
<td>18 (37)</td>
</tr>
<tr>
<td>Smoker, n (%)</td>
<td>17 (11)</td>
<td>14 (13)</td>
<td>3 (6)</td>
</tr>
<tr>
<td>Diabetes, n (%)</td>
<td>26 (17)</td>
<td>13 (12)</td>
<td>13 (27)</td>
</tr>
<tr>
<td>%XS Weight loss, mean (SD)</td>
<td>76.13 (27)</td>
<td>79.71 (28)</td>
<td>68.88 (22)</td>
</tr>
<tr>
<td>BP on medication, n (%)</td>
<td>57 (38)</td>
<td>24 (23)</td>
<td>33 (70)</td>
</tr>
<tr>
<td>Systolic BP mmHg, mean (SD)</td>
<td>134.71</td>
<td>132.0 (17.35)</td>
<td>140.67 (17.00)</td>
</tr>
<tr>
<td>Lipid lowering medication, n (%)</td>
<td>24 (19)</td>
<td>6 (7)</td>
<td>18 (42)</td>
</tr>
</tbody>
</table>

**ESC SCORE**

| Mean (SD) | 0.57 (1.02) | 0.29 (0.733) | 1.2 (1.28) | <0.001* (2) |
| SCORE = 0, n (%) | 99 (66) | 84 (81) | 15 (33) | <0.001* (1) |
| SCORE = 1–6, n (%) | 51 (33) | 20 (19) | 31 (66) | <0.001* (1) |

(1) Chi-squared test
(2) Student’s T test

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morbidly obese patients. Interestingly, patients with absent coronary artery calcium had a greater excess weight loss by 12 months (range 6–24) following surgery. Coronary artery calcium scoring may be a useful tool in helping further stratify cardiovascular risk and operative outcomes in bariatric populations.

**Abstract 38**

**TRANSFORMING POST TRIAGE ASSESSMENT OF CHEST PAIN IN A BUSY EMERGENCY DEPARTMENT (ED), FROM ED DOCTOR TO ADVANCED NURSE PRACTITIONER (ANP) DIRECT; THE IMPACT ON PATIENT EXPERIENCE TIMES (PET)**

S Ingram. Tallaght University Hospital, Dublin, Ireland

**Background** Chest pain accounts for 8% of TUH Emergency Department (ED) presentations The ANP led chest pain service provides nurse consults to the patient with chest pain in the ED. Once triaged and seen initially by an ED doctor if CHD is suspected the patient is then referred to the ANP nurse led chest pain service for further management.

Patient Experience Time (PET) is the entire time each patient spends in the ED. Since the ANP consult service commenced in 2012, chest pain PET in the ED has reduced from 17 hours, however this time frame is still regularly exceeded with an average PET of 10 hours in 2019. The national ED PET goal is 6 – 9 hours.

**Method** Building on 6 years of skilled and competent ANP led chest pain consultations in the ED, cardiology ANPs expanded their caseload to assess chest pain patients directly from the waiting room as named clinicians, instead of an ED doctor. The aim was to reduce PET for this patient group by providing focused expert chest pain assessment. Enablers included ANP referral for ionising radiation, ANP medicinal prescribing and buy in from ED Consultants. The ED ‘Symphony’ system was used as a clinical and audit tool. This initiative commenced in 2017 with 1 ANP annually. All patients seen directly by the ANP since 2017 were included in the data analysis. ANP PET was compared to ED Doctor PET.

**Results** 200 patients were autonomously managed by the ANPs as named clinicians after initial triage. Over the 3 years average PET for cases managed autonomously by the ANP was 7.5 hours compared with a usual physician care average of 9.5 hours. ANP decision time to admit or discharge was 2.6 hours.

**Implications** As emergency departments face regular overcrowding, and social distancing now impacts more than ever on available space in the ED, further caseload expansion by the Cardiology ANPs demonstrates further PET reductions in line with targets. Autonomous ANP management frees ED doctors to manage other cases and improves patient flow. Professional courage to work autonomously, delivering safe, evidence-based care with this high-risk group has transformed patient management in this busy ED.

**Abstract 39**

**IMPAIRED AUTONOMIC FUNCTION AFTER INCOMPLETE CARDIAC REvascularisation**

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**Introduction** Incomplete cardiac revascularisation (ICR) assessed by residual SYNTAX score (rSS) is associated with increased 5 year mortality. Furthermore, in the general population our group has demonstrated that impaired autonomic function is associated with increased all-cause mortality.

**Purpose** We hypothesised that ICR would be associated with impaired autonomic function.

**Methods** After ethical approval and informed consent, consecutive patients attending cardiac rehabilitation in a tertiary referral centre were enrolled. All patients had percutaneous coronary revascularisation. Assessment of autonomic function was performed by determining speed of heart rate recovery between 10 and 20 seconds post orthostatic challenge (HRR10-20). During an active stand, real time heart rate, blood pressure and ECG recordings were taken using non-invasive digital photoplethysmography and HRR10-20 determined. Patients with an rSS >0 were considered incompletely revascularised and those with an rSS of 0 fully revascularised. Demographic data were recorded and statistical analysis performed (SPSS v23).

**Results** Patients (n=40) comprised those with complete (CR) (n=30) and incomplete (ICR) (n=10) revascularisation. In the ICR group mean rSS was 9. HRR10-20 was impaired in the ICR group (mean -2.9) compared to the CR cohort (mean -5.3) (p=0.001). Completeness of revascularisation was strongly associated with HRR10-20 (Pearson’s correlation coefficient 0.529; p≤0.0001). (Figure 1) Baseline demographics did not differ significantly. Use of rate limiting medication was similar between cohorts (beta blockers, calcium channel blockers, ivabradine).

**Conclusions** Our data confirm significant correlation between ICR and impaired autonomic function determined by speed of heart rate recovery. Thus determining autonomic dysfunction post ICR may identify those at increased mortality risk.