

Abstract 21 Table 1 Characteristics of ACLM participants by atrial fibrillation and heart failure status at the start and end of the study

	Baseline AF	Baseline HF	Baseline AF + HF	Baseline AF, developed HF	Baseline HF, developed AF
n	29164	19474	5728	1647	824
Age \pm SD	74 \pm 13	73 \pm 14	77 \pm 12	77 \pm 11	77 \pm 11
Male%	52.4	51.0	49.8	48.0	49.3
Caucasian%	87.6	82.9	86.8	92.2	90.2
South Asian%	1.7	4.0	1.8	1.6	2.4
Afro-Caribbean	0.8	1.6	1.2	0.4	0.6
%					
Other%	9.9	11.8	10.2	5.8	6.8
Crude	485	636	672	715	778
Mortality (per 1000)					
Mean Survival (Days)	722	631	692	880	922

AF, atrial fibrillation; HF, heart failure; SD, standard deviation

developed HF during follow-up, and of those with HF at baseline, 824 (4.2%) developed AF during follow-up. Demographics and crude mortality rates are shown; see Table. Patients with combined AF and HF at baseline had increased mortality than patients with AF or HF alone. Patients with AF at baseline that developed HF, and patients with HF at baseline that developed AF, experienced a greater mortality compared to those with combined HF and AF at baseline; see Figure.

Conclusion Concomitant AF and HF is associated with substantial mortality and risk of death, irrespective of which disease develops first. In light of limited current treatment for these patients, future therapies to specifically target the combined HF and AF group are required.

22 AUDIT OF MANAGEMENT OF PATIENTS WITH HEART FAILURE FOLLOWING NON-STEMI AND USE OF ALDOSTERONE ANTAGONISTS

¹Olivia Buckledee*, ²Yasmin Ismail, ²Angus Nightingale. ¹University of Bristol; ²Bristol Heart Institute; *Presenting Author

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Background The presence of heart failure following a non-ST elevation myocardial infarction (non-STEMI) is associated with a worse prognosis. Current UK and European Guidelines recognise the importance of identifying these higher risk patients and offering them disease modifying therapies including drugs and devices.

We wanted to find out if these guidelines were being followed in a busy Heart Attack Centre in the South West of England; in particular, whether a mineralocorticoid receptor antagonist (MRA) was being prescribed to those with impaired LV function and either diabetes or signs heart failure.

Methods We performed a retrospective audit of consecutive patients identified as having non-STEMI on the MINAP database from April 2014 to March 2015.

We assessed:

1. How many received an echocardiogram during their index admission;

2. Compliance with NICE recommended post MI medications on discharge;
3. Implications for device implantation rates according to NICE and ESC guidelines.

Results 176 patients (mean age 70 years, 64% male) were recorded on the MINAP database with non-STEMI in the study period. 71% (125/176) had an echocardiogram during the index admission. 42% (53/125) had good left ventricular (LV) function and 30% (38/125) had moderately or severely impaired LV function (EF < 40%).

Of those with impaired LV function post non-STEMI, 82% (31/38) either had diabetes or signs of pulmonary oedema; 6 of these had a documented contra-indication to a MRA. 56% (14/25) were prescribed a MRA in accordance with the NICE guidelines compared to > 95% compliance with guidelines recommending ACEi/BB/statin/antiplatelet agents. Mean length of stay for those with impaired LV function was 7.9 days. 71% (27/38) of the impaired LV function patients were followed up by our cardiology team with 11 referred back to their local hospital for follow up. 41% (11/27) had a repeat echo after at least one month to reassess LV function and assess requirement for implantable devices.

Conclusions Nearly a third of patients had significantly impaired LV function following non-STEMI. Whilst most post-MI drugs were prescribed >95% in compliance with the NICE guidelines, MRAs (spironolactone and eplerenone) were only prescribed in around half of suitable cases. The reasons for this could include poor documentation of contraindication to MRA or lack of awareness of the guidelines.

Follow-up reassessment of LV function after at least a month to detect functional recovery or indication for device therapy was also poor. Opportunities to prevent sudden death or worsening heart failure by implanting ICD or CRT devices could therefore have been missed.

Management of non-STEMI patients complicated by heart failure might benefit from a closer link between the acute coronary syndrome and the heart failure teams to improve outcomes and reduce length of stay for patients.

23 SURVEILLANCE AND INCIDENCE OF CHEMOTHERAPY-INDUCED CARDIOTOXICITY IN BREAST CANCER: A LONG TERM OBSERVATIONAL STUDY

Bayan Soujeri*, Jagdeep Singh, Samuel Chew, Sean Hawkey, Michelle Ferguson, Chim C Lang. University of Dundee; *Presenting Author

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Introduction Recent advances in chemotherapy have transformed breast cancer from a fatal disease to a survivable condition. However, many patients who survive their cancer, succumb to the unintended adverse effects of therapy. Chemotherapy-induced cardiotoxicity is now among the most feared adverse effects and has been reported in up to 50% of patients up to twenty years later, the majority of which occurring after completion of therapy. Consequently, current breast cancer treatment guidelines recommend assessment of LV function before, during and after chemotherapy.

Methods We conducted a retrospective cohort study of 1263 breast cancer patients who received either anthracyclines alone or combined with the monoclonal antibody trastuzumab at Ninewells Hospital, Dundee between January 2003 and December 2014. Imaging modalities such as MUGA scans