

**Results** Preliminary results from 1987 to 2007 indicate that the overall age-standardised CHD mortality rate in Northern Ireland (age 25–84 years) fell from 361 to 124 deaths per 100 000 inhabitants, resulting in an estimated 3180 fewer CHD deaths in 2007. Changes in CHD risk factors produced a total of 2090 fewer CHD deaths (minimum estimate 1410; maximum estimate 2820) in Northern Ireland. These reductions therefore accounted for approximately 65% of the total decrease in CHD mortality. The largest effect came from the substantial fall in total cholesterol (explaining approximately 40% of the reduction in CHD mortality), followed by reductions in smoking (24%) and population systolic blood pressure (17%).

However, increases in some risk factors had a negative effect, actually increasing CHD mortality: diabetes prevalence (–9%), physical inactivity (–5%) and BMI (–2%). Research is currently underway to estimate the additional contribution of improved treatment uptake and effectiveness to the reductions in CHD mortality.

**Conclusions** Approximately two thirds of the recent large fall in CHD mortality in Northern Ireland between 1997 and 2007 was attributable to reductions in major cardiovascular risk factors. However, adverse trends in diabetes, obesity and physical inactivity are of major concern. More aggressive policies to promote healthy food and increase physical activity may therefore be needed to decrease future CHD deaths.

\*High scoring abstract.

#### P04 AGE- AND GENDER-SPECIFIC RISK OF DEATH AFTER FIRST HOSPITAL ADMISSION FOR HEART FAILURE

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<sup>1</sup>I Vaartjes, <sup>1</sup>A W Hoes, <sup>2</sup>J B Reitsma, <sup>3</sup>A de Bruin, <sup>1</sup>D E Grobbee, <sup>4</sup>A Mosterd, <sup>1</sup>Bots. <sup>1</sup>Julius Centre for Health Sciences and Primary Care, University Medical Centre Utrecht, Utrecht, The Netherlands; <sup>2</sup>Department of Clinical Epidemiology and Biostatistics, Amsterdam Medical Centre, Amsterdam, The Netherlands; <sup>3</sup>Statistics Netherlands, The Hague, The Netherlands; <sup>4</sup>Department of Cardiology, Meander Medical Centre, Amersfoort, The Netherlands

**Objective** Heart failure (HF) is an important public health problem. Detailed information on prognosis following hospital admission is crucial for cost-effectiveness analysis and determination of the burden of HF on the health care system. However, such data are scarce. Therefore, the objective of this study was to provide mortality risk following hospital admission stratified by age- and gender.

**Design** Hospital based follow-up study.

**Setting and Participants** A nationwide cohort of patients hospitalised for the first time for heart failure was identified through linkage of national registers in 1997 and 2000. The total population of the Netherlands in 1997 and 2000 was 15 567 107 (men 7 696 803, women 7 870 304) and 15 863 950 (men 7 846 317, women 8 017 633), respectively.

**Main Outcome Measure** The crude short-term (28 day), 1-year and long-term (5-year) mortality was computed by age and gender according to the actuarial life table method and expressed as percentages. The mortality rate in men was compared to mortality rate in women by calculating RR (with 95% CI).

**Results** 14 529 men, mean age 74±11 years and 14 524 women, mean age 78±11 years were identified. Mortality risk after admission for HF increased with age from 35–44 years to 75–84 years (men: 28-day mortality from 7.5% to 32.9%, 1-year mortality from 17.2% to 58.6% and 5-year mortality from 34.2% to 87.1%; and women: 28-day mortality from 6.9% to 27.2%, 1-year mortality

from 14.9% to 49.9% and 5-year mortality from 27.6% to 84.1%). The risk of death was higher among men than women of the same age.

**Conclusions** There are clear age and gender differences in short- and long-term risk of death after first hospitalisation for heart failure. This information is helpful for clinicians, policymakers and service planners. Findings will also be useful for the development of models that evaluate cost-effectiveness and impact on outcomes of heart failure management programmes, and for predicting the future health care burden of heart failure.

## Diabetes

#### P05 EXPLORING THE IMPACT OF THE QUALITY AND OUTCOMES FRAMEWORK ON THE QUALITY OF DIABETES CARE AND HEALTH CARE INEQUALITIES IN ENGLAND

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J Akanuwe, E Goyder, R O'Hara, S Julious. School of Health and Related Research (SchARR), University of Sheffield, Sheffield, UK

**Introduction** Previous analyses suggest that over the first 3 years of the national Quality and Outcomes Framework (QOF) quality of care has improved and inequalities in diabetes care between practices have significantly reduced. In this study, we have reviewed the literature and undertook an exploratory analysis of the first 5-year QOF data with practices ranked by deprivation tertiles to assess the impact of QOF on the quality of diabetes care and health care inequalities.

**Objectives** To use data from QOF to assess whether the quality of diabetes care has continued to improve between its introduction in 2004/2005 and 2008/2009, whether the gap between practices in the most deprived and the least deprived tertiles has closed, and whether the national patterns are also seen in a city with significant geographical inequalities.

**Design** Exploratory analysis of the QOF data from 2004/2005 to 2008/2009.

**Participants** All general practices in England and practices in the city of Sheffield.

**Main Outcome Measure** Trends in the process and outcome measures of diabetes care and in the gap between the most deprived and the least deprived tertiles.

**Results** In England the mean proportions of patients with HbA1c, blood pressure (BP) and cholesterol reviewed and the mean proportions of those achieving outcome targets for HbA1c (7.5%), BP (145/85) and cholesterol (5 mmol/l) were noted to be higher than the QOF upper thresholds of 90% and 60% for the process and outcome indicators, respectively, and these increased over time with most practices levelling off by 2008/2009. A comparison of these increasing trends between practices in the most deprived and least deprived areas revealed that the gap that was significantly wide in 2004/2005 had narrowed over the years and appeared to have disappeared by 2008/2009. For Sheffield, a city with significant geographical inequalities, although the mean proportions achieving the outcome targets were generally above the QOF upper threshold of 60%, these tended to fluctuate between practices in the most deprived and least deprived areas—without consistent narrowing of the gap for all indicators.

**Conclusion** Overall there was narrowing of the inequality gap and improvements in the quality of diabetes care for Sheffield and England as a whole with most of the improvements levelling off by the year 2008/2009. However, for some of the indicators there were differences between Sheffield and England as a whole.