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Identifying high cholesterol in the ambulance setting: impact of a primary prevention programme to tackle health inequality. Karl Charlton¹ & Jon Rees²



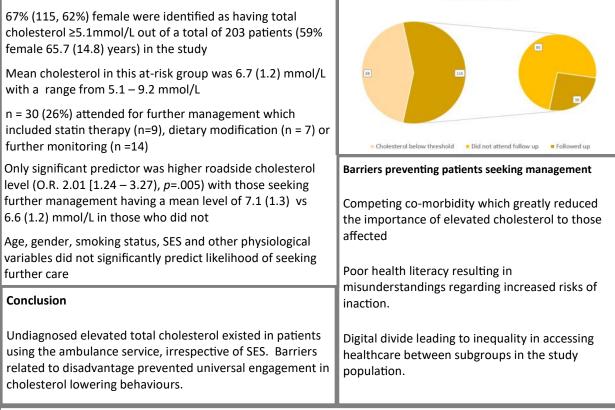
Background

Stockton, Middlesbrough, Hartlepool, and Redcar & Cleveland districts of Teesside are known to have some of the highest health inequalities in England.¹ Between 2015–17, the rate of premature cardio vascular disease (CVD) mortality in this region was the second highest of all English regions and significantly higher than the national rate.² People with low socio-economic status (SES) experience a higher prevalence of CVD but poorer engagement with health prevention services, leading to increased premature mortality.³ Populations with low SES access healthcare through ambulance services disproportionately to other populations⁴ so opportunities exist to identify patients at high risk of elevated cholesterol in this setting.

Methods

An observational cohort study between December 21-December 22 in Teesside, North East England. Patients aged ≥40 years with blood pressure of ≥140/90 using the ambulance service had their total cholesterol measured using a point of care device. Those with a provisional diagnosis of total cholesterol ≥5.1mmol/L were advised to attend primary care for further management. Outcomes were collected at 60 days. Those who did not obtain further management were interviewed to identify the barriers preventing them from doing so.

Results



References ¹Ministry of Housing, Communities and Local Government. 2014 to 2020 European Regional Development Fund Operational Programme. In Annex—Community Led Local Development; Ministry of Housing, Communities and Local Government: London, UK, 2015; ²Corris V, Dormer E, Brown A, Whitty P, Collingwood P, Bambra C, Newton JL. Health inequalities are worsening in the North East of England. British Medical Bulletin. 2020 Jun; 134(1):63-72; ³Lang SJ, Abel GA, Mant J, Mullis R. Impact of socioeconomic deprivation on screening for cardiovascular disease risk in a primary prevention population: a cross-sectional study. BMJ open. 2016 Mar 1;6(3):e009984; ⁴Coster, J. E., Turner, J. K., Bradbury. D., Cantrell, A. (2017), Why Do People Choose Emergency and Urgent Care Services? A Rapid Review Utilizing a Systematic Literature Search and Narrative Synthesis', Academic Emergency Medicine, 24(9)









Outcomes