Abstracts

Background  The maintenance of physical and cognitive function for the maximal period of time is a key component of healthy ageing, associated with continued independent living, better quality of life and reduced morbidity and mortality risk. There is growing interest in investigating life course influences on healthy ageing to identify potential intervention targets, beyond those already identified by chronic disease epidemiology.

Using data from the MRC National Survey of Health and Development (NSHD), we assess:
1. the relative importance of socioeconomic position (SEP) in childhood and adulthood across a range of physical and cognitive functional ageing outcomes at age 60–64; 2. the contribution of key social, behavioural and developmental intermediary factors to the relationship between child SEP and functional ageing

Methods  Ageing outcomes (lung function, grip strength, chair rise time, standing balance, timed up and go (TUG), verbal memory, processing speed and simple reaction time) were regressed on childhood and adult SEP ridit scores (calculated as the proportion of the population higher than the midpoint for each category) and sex. The ridit score coefficient is the slope index of inequality (SII), interpreted as the absolute difference in outcome between the hypothetical top and bottom of the SEP gradient. These were converted to the relative index of inequality to provide an estimate of the relative SEP difference across outcomes and over time. Regression models were then adjusted to examine the influence of potential mediators (education, smoking, BMI, height and childhood cognition) on the SII.

Results  Substantial childhood and adult socioeconomic gradients were observed in all physical and cognitive outcomes. The hypothetical top of the childhood SEP distribution performed between 9 and 18 per cent better, relative to the hypothetical bottom (p ≤ 0.05 for association between childhood SEP with all outcomes). These associations persisted on adjustment for adult SEP, with the exception of standing balance. The hypothetical top of the adult SEP distribution performed between 6 and 26 per cent better, relative to the hypothetical bottom (p ≤ 0.05 for association between adult SEP with all outcomes). With the exception of processing speed (in women only), chair rise time, and TUG, associations between adult SEP and outcomes persisted on adjustment for childhood SEP. Adjusting for potential mediators attenuated specific associations.

Conclusion  Child and adult SEP were independently associated with physical and cognitive ageing at age 60–64. The different social, behavioural and developmental pathways partly mediating these associations may guide appropriate intervention strategies.

Research has shown that there is a crucial lack of data and injury surveillance systems to inform prevention. In high income countries it has been shown that many child and adolescent injuries can be prevented through careful analysis and appropriate action. In January 2012 The Department of Health published A public health outcomes framework for England, 2013–2016’, which includes ‘Hospital admissions caused by unintentional and deliberate injuries in under 18s’ as an indicator of population health.

Background  Injury is a leading cause of death among children and adolescents and around 16% of the world’s burden of disease can be attributed to injury, reflecting the disproportionate burden of injuries among young people and added years of life lived with disability. The majority of injuries can be prevented or at least controlled and the costs of prevention are much lower than the costs of the consequences of injuries. There is a crucial lack of data and injury surveillance systems to inform prevention. In high income countries it has been shown that many child and adolescent injuries can be prevented through careful analysis and appropriate action. In January 2012 The Department of Health published A public health outcomes framework for England, 2013–2016’, which includes ‘Hospital admissions caused by unintentional and deliberate injuries in under 18s’ as an indicator of population health.

Methods  A prospective audit has been designed for use in The Paediatric Emergency Department at The Royal London Hospital in the LBTH. The audit tool will include the WHO core minimum dataset for injury surveillance and ICD-10 for injuries, as part of an enhanced injury dataset that has been incorporated in the College of Emergency Medicine’s proposed ‘emergency medicine minimum dataset’. Subsequent mapping of injuries to LBTH postcodes will allow identification of injury ‘hot spots’ requiring further investigation and targeted interventions.

Results  A preliminary retrospective audit of paediatric unintentional injury using data collected from computerised Accident and Emergency records for children aged 0 to <18 years who attended Royal London Hospital between July to September 2011 showed that unintentional injury results in high rates of attendance, with 40% of children attending as consequence of unintentional injury (n=3,015 attendances). The main reasons for attendance were for fractures, joint and head injuries and soft tissue inflammation. However, details of where injuries occurred, mechanisms and severity were lacking; prompting a prospective audit.

Conclusion  Knowledge of the epidemiology of paediatric injury is lacking. It is imperative that routine monitoring and surveillance of paediatric injuries occurs nationally in order to inform effective injury prevention strategies.

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**PS20**  PROSPECTIVE AUDIT OF PEDIATRIC UNINTENTIONAL INJURY  

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**Background**  Injury is a leading cause of death among children and adolescents and around 16% of the world’s burden of disease can be attributed to injury, reflecting the disproportionate burden of injuries among young people and added years of life lived with disability. The majority of injuries can be prevented or at least controlled and the costs of prevention are much lower than the costs of the consequences of injuries. There is a crucial lack of data and injury surveillance systems to inform prevention. In high income countries it has been shown that many child and adolescent injuries can be prevented through careful analysis and appropriate action. In January 2012 The Department of Health published A public health outcomes framework for England, 2013–2016’, which includes ‘Hospital admissions caused by unintentional and deliberate injuries in under 18s’ as an indicator of population health.

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**PS21**  EVALUATION OF MATERNITY CARE INTERVENTION IN RURAL NEPAL: CAN A HEALTH PROMOTION EXERCISE IMPROVE MATERNAL HEALTH AND SERVICE UPTAKE IN RURAL NEPAL?  

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**Background**  In developing countries, where the majority of the world’s maternal deaths occur it is recognised that to target maternal mortality within limited resources, safe motherhood strategies need to be targeted to rural areas and to the poor in order to increase access to antenatal care and delivery care. In these populations, a lack of understanding of local beliefs and practices, and the reasons for them, can hinder the development of appropriate interventions.

The Green Tara Nepal intervention, Pharping, Nepal, aims to improve the uptake of maternal care practices in rural Nepal via health promotion activities in the community. The expectation is that the measured aspect of health-seeking behaviour should improve in the intervention area relative to the control.

**Methods**  In 2005, Green Tara Nepal (GTN), a Nepalese Non-Governmental Organisation implemented a 5 year health promotion intervention to improve maternal and neonatal health in 2 rural village development communities (VDC) in Pharping, Nepal. The GTN programme works with midwives and community health workers to target fertile women, in health promotion groups and on a one-to-one basis. During this interaction, women receive advice on health behaviours and care-seeking practice.

Two surveys were conducted a baseline (2008) and a midline (2010) on the intervention communities and in 2 control communities: 833 women of childbearing age with their last child of less