Introduction
Recently, the autism age-specific prevalence has increased dramatically and autism prevalence estimates now range from 60 to 70/10,000. This makes autism the second most common neurodevelopmental disorder after mental retardation (MR) and a strong risk factor for autism with other comorbidities. Co-existing developmental disabilities (CDDs) than for autism without CDDs. We report HR (95% CI) for autism prevalence in children with CDDs compared to children without CDDs, controlling for other confounders. We hypothesise that lbw is a stronger risk factor for autism with CDDs than for autism without CDDs. We related periconceptional MV use to early (≤20 weeks) fetal death. At recruitment, women in the Danish National Birth Cohort (n=55,897) reported the number of weeks of MV use during a 12 week periconceptional period. Information about lifestyle factors came from a later telephone interview. Cox regression was used to estimate HR for the association between periconceptional MV use and CDDs and autism, controlling for other confounders. Analyses of more CDD subgroups are ongoing.

Results
Consistent with a recently published study we find that lbw children have a twofold increased risk for autism with MR but no increased risk for autism with normal intelligence. In etiological studies, subgrouping autism cases on the basis of CDDs may enhance our knowledge of etiological pathways in autism.

O2-6.4
Impact of Maternal Obesity on Stillbirth and Infant Death: Absolute Risk and Temporal Trends

doi:10.1136/jech.2011.142976a.79

Introduction
UK guidelines advocate that obese pregnant women (body mass index, BMI ≥30 kg/m²) be made aware of the increased risks to them and their offspring. This study hence pooled data from several sources to derive estimates of the absolute and attributable risks of stillbirth and infant death for obese women in England, and predict changes in prevalence resulting from trends in BMI.

Methods
The BMI profile of the maternal population of England and of the prevalence of each outcome were obtained from nationally representative sources. Trends in BMI were modelled by logistic regression. RR for stillbirth and infant death were derived from published literature. These were equated to estimate absolute risks, attributable risks, and future prevalence rates.

Results
The estimated absolute risk of a stillbirth or infant death for an obese pregnant woman in England is 1.5% (95% CI 1.3 to 1.8), compared to 0.9% (0.8 to 0.9) for women of recommended BMI (25–29 kg/m²). An estimated 8.1% of stillbirths and infant deaths in England are attributable to maternal obesity.

If trends in maternal BMI continue, 24.0% (22.1 to 25.9) of the maternal population of England will be obese by 2020. This is predicted to result in a 4.4% increase in the prevalence of stillbirth and infant death compared to 2010.

Conclusion
This study provides estimates of the individual risk and population burden of stillbirth and infant death in England resulting from maternal obesity. These results have implications for public health planning and for providing clear information to obese women about their pregnancy-related risks.

O2-6.5
Risk of Fetal Death in Women with Periconceptional Intake of Multivitamins

doi:10.1136/jech.2011.142976a.80

Introduction
Nutrition is important in a healthy pregnancy, but little is known about the impact of multivitamins (MV) on the survival of the fetus.

Methods
We related periconceptional MV use to early (<20 weeks) and late (≥20 weeks) fetal death. At recruitment, women in the Danish National Birth Cohort (n=55,897) reported the number of weeks of MV use during a 12 week periconceptional period. Information about lifestyle factors came from a later telephone interview. Cox regression was used to estimate HR for the association between MV use and CDDs and autism, controlling for other confounders. Analyses of more CDD subgroups are ongoing.

Results
Consistent with a recently published study we find that lbw children have a twofold increased risk for autism with MR but no increased risk for autism with normal intelligence. In etiological studies, subgrouping autism cases on the basis of CDDs may enhance our knowledge of etiological pathways in autism.