

JSNA Blackpool

Joint Strategic Needs Assessment

Search



- Home
- Starting Well
- Newborn
- Newborn
- Low Birth Weight
- Breastfeeding

Home > Starting Well > Newborn > Low Birth Weight

Low Birth Weight



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Introduction

Low birth weight increases the risk of **childhood mortality** and of developmental problems for the child and is associated with poorer health in later life. Over half of deaths in childhood occur during the first year of a child's life, and are strongly influenced by pre-term delivery and low birth weight; with risk factors including maternal age, smoking and disadvantaged circumstances¹.

At a population level there are inequalities in low birth weight; rates of low birthweight are higher in less advantaged socio-economic groups, and are particularly linked to a number of negative health behaviours such as poor prenatal care, substance abuse, poor nutrition during pregnancy and smoking which are more common in these groups. In addition there is a relation between teenage pregnancy and low birthweight, where there is competition for nutrients between the fetus and the growth needs of the mother. Inadequate nutrition can also drive low birthweights¹.

Low birth weight births are defined in two ways:

- Live births with a recorded birth weight under 2,500g and a gestational age of at least 37 complete weeks.
- All births (live and still births) with a recorded birth weight under 2500g as a percentage of all live births with stated birth weight

Very low birth weight births are:

- All births (live and still births) with a recorded birth weight under 1500g as a percentage of all live births with stated birth weight.

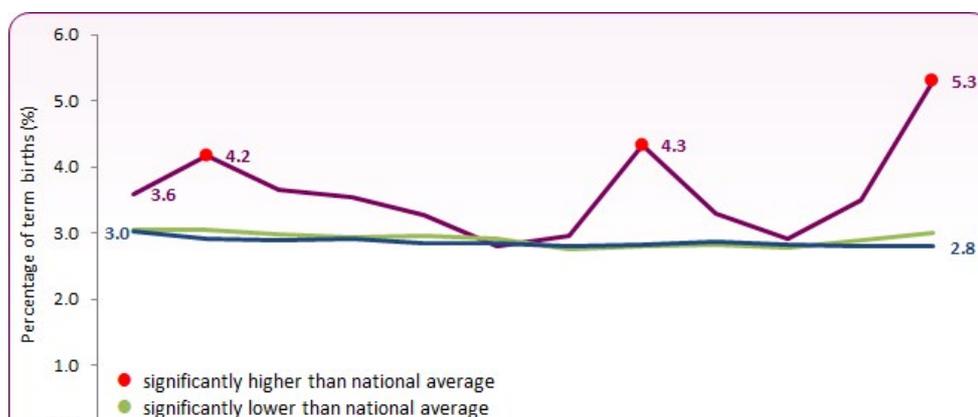
This indicator is in line with the Government's direction for public health on starting well through early intervention and prevention and is included within the Public Health Outcomes Framework. It has also been included in the Department of Health Business Plan within the context of addressing issues of premature mortality, avoidable ill health, and inequalities in health, particularly in relation to child poverty.

Facts and Figures

Figure 1 shows that there have been a consistently higher proportion of low birth weight infants born to Blackpool mothers than in the North West or England as a whole.

In 2017, 5.3% of infants who reached 37 weeks gestation, born to Blackpool resident mothers, weighed less than 2,500g. This was 76 infants born in 2017.

Figure 1: Trend in Low Birth Weight of Term Babies





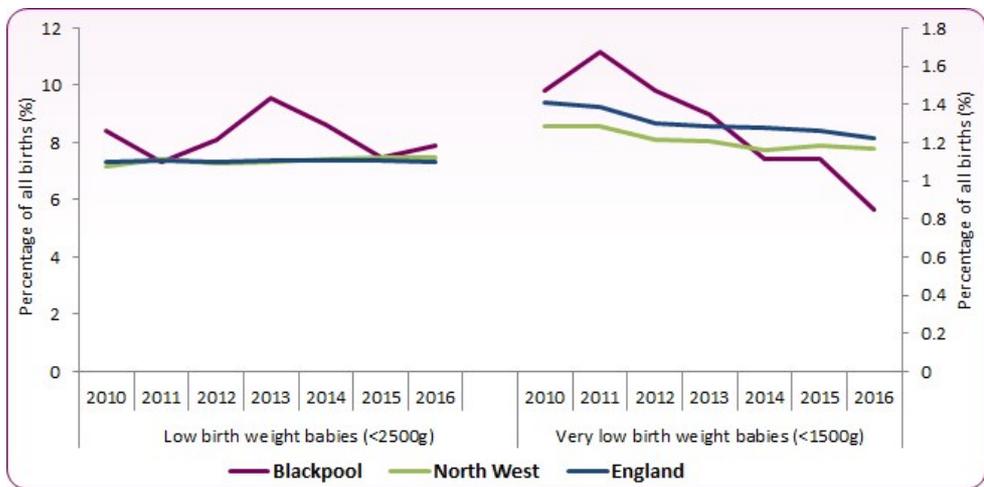
Public Health Outcomes Framework

Figure 2: Trend in low birth weight of term babies

		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
England	%	3.0	2.9	2.9	2.9	2.9	2.8	2.8	2.8	2.9	2.8	2.8	2.8
North West	%	3.1	3.0	3.0	2.9	2.9	2.9	2.8	2.8	2.8	2.8	2.9	3.0
Blackpool	No.	54	65	58	56	52	44	46	65	53	43	52	76
	%	3.6	4.2	3.7	3.5	3.3	2.8	3.0	4.3	3.3	2.9	3.5	5.3

In 2016 across Blackpool, there were a total of 130 babies born weighing less than 2500g and 14 weighing less than 1500g. Figure 3 shows the recent trend in low birth weight babies under 2500g and very low weight babies under 1500g for all births. While rates for Blackpool are generally similar to the national average, very low weight births have fallen over from 1.7% in 2011 to 0.85% in 2016.

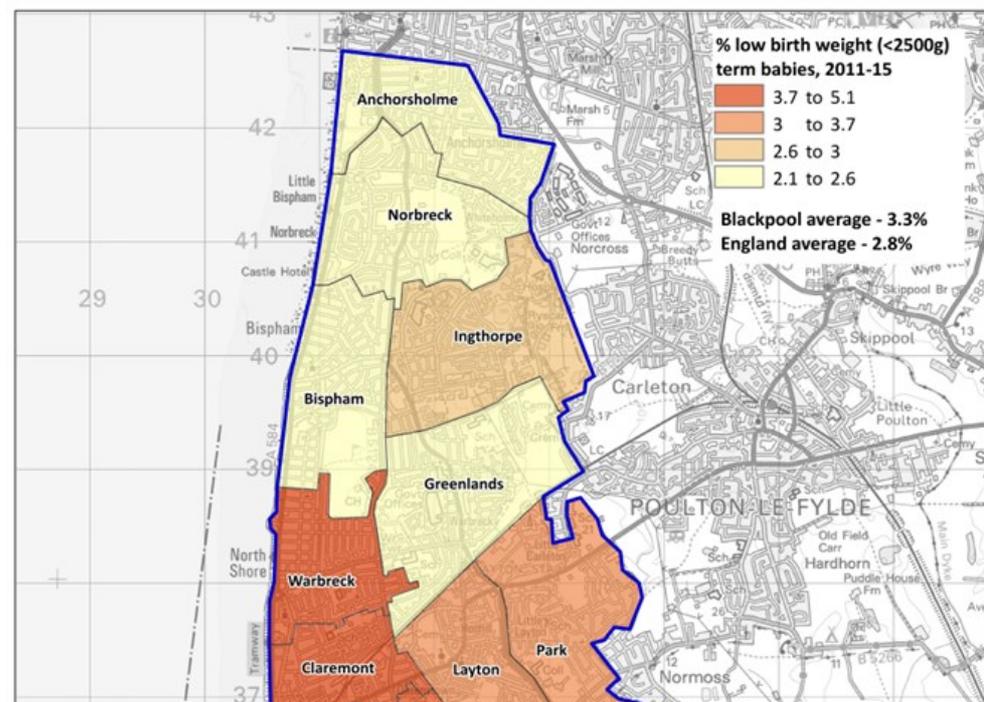
Figure 3: Trend in Low Birth Weight of All Babies

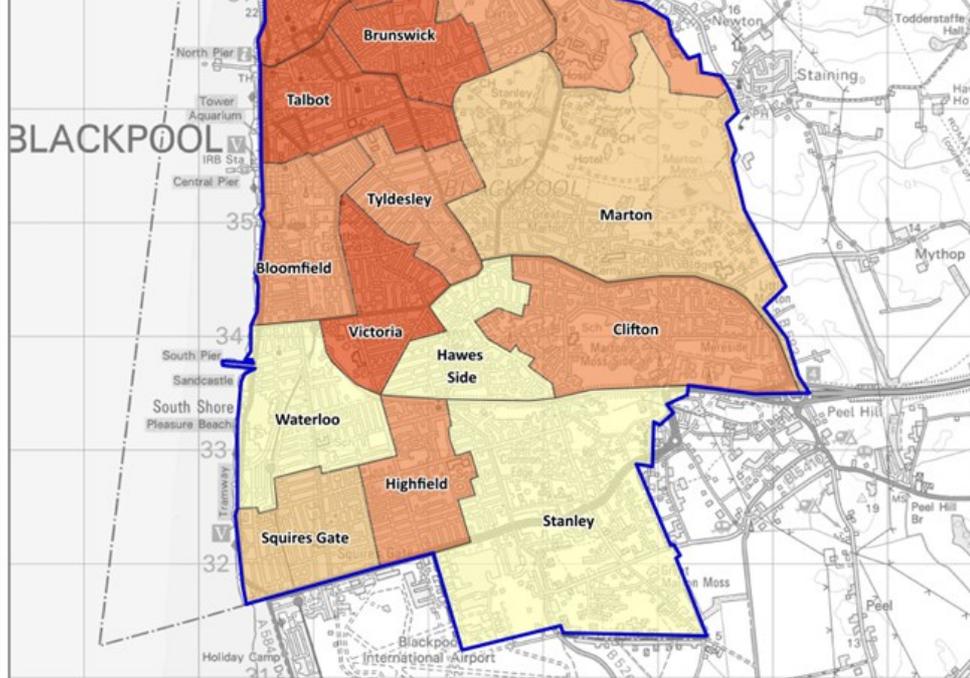


Source: Public Health Outcomes Framework

There is variation in low birth weight rates across Blackpool and figures from Public Health England show Claremont has significantly higher rates of low weight births than the England average. Over the 5 year period 2011 to 2015, 5% of babies in Claremont were born weighing less than 2500g. At the other end of the scale, Greenlands has the lowest proportion of low weight births (2.2%). Figure 4 shows the variation across the wards in Blackpool.

Figure 4: Term births with birth weight less than 2500g as a proportion of live and still births, 2011-15





Source: PHE, Local Health

Risk Factors

Maternal factors can affect placental transfer of nutrients - eg, low pre-pregnancy weight, under-nutrition, substance abuse or severe anaemia. Medical conditions can affect placental implantation and vasculature and hence transfer - eg, pre-eclampsia, auto-immune disease, thrombophilias, renal disease, diabetes and essential hypertension².

Minor risk factors

- Maternal age ≥ 35 years
- IVF singleton pregnancy
- Nulliparity
- BMI < 20
- BMI 25-34.9
- Smoker - 1-10 cigarettes per day
- Low fruit intake pre-pregnancy
- Pregnancy interval < 6 months
- Pregnancy interval ≥ 60 months

Major risk factors

- Maternal age > 40 years
- Smoker - ≥ 11 cigarettes per day
- Paternal or maternal SGA
- Maternal tobacco smoking is the key environmental risk factor for low birth weight. Passive maternal smoking is also a risk factor
- Poor nutrition
- Drug use
- Alcohol abuse
- Heart disease or hypertension
- Younger mother

National and local strategies

- **Antenatal care for uncomplicated pregnancies** (National Institute for Health and Care Excellence, 2008) - Guidelines cover advice and information to be given to women during pregnancy, including antenatal and newborn screening programmes, screening for clinical conditions such as gestational diabetes and pre-eclampsia, screening for infections, lifestyle advice, provision of care and management of pregnancy symptoms and breastfeeding.

[1] Royal College of Paediatrics and Child Health, Why Children Die: death in infants, children and young people in the UK, May 2014

[↑ Back to top](#)

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