THE ALSPAC STUDY

Father based blood assay results

Prepared by

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Documentation summarising the data available and the variable names.

Last updated for version 3a of the RELEASE file.

Introduction

This documentation simply gives a summary of the assay results that are available from blood samples from study Fathers collected through the Focus on Fathers clinic.
Note that blood samples from the Focus on Fathers clinics were fasting. Detailed

methodologies for each assay will follow in due course.

All users are advised to check any variables they use for distributions and outliers.

Table 2 provides a list of all variable names and labels which may assist users who will be making formal data requests.

Important note for all data users

Please be aware that some men may appear in the release file more than once. This is due to the fact that ALSPAC started by enrolling pregnant women and the main study ID is therefore a pregnancy based ID. Therefore if a women enrolled with two different pregnancies (both having an expected delivery date within the recruitment period (April 1991-December 1992)), she will have two separate IDs to uniquely identify these women and their pregnancies. Any man associated with both of these pregnancies will therefore be duplicated.

> **An indicator variable has been included in the file, called *mult_dad* to identify these men. If you are carrying out father based research that does not require you to consider repeat pregnancies for which we have data then please select mult_dad = 2 to remove the duplicate entries. This will keep one pregnancy and randomly drop the other pregnancy. If you are matching the data included in this file to child based data or have been provided with a dataset that includes the children of the ALSPAC pregnancies, as well as the mother or father-based data, you need not do anything as each pregnancy (and hence each child from a separate pregnancy) has a unique identifier and a fathers' data has been included/repeated here for each of the pregnancies he is associated with where appropriate.**

mult_dad Entry is a duplicate for FOF data - Remove if only looking at partners

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 One father/father figure related to two pregnancies	33	1.6	1.6	1.6
	2 No	2001	98.4	98.4	100.0
	Total	2034	100.0	100.0	

Release file version history

Release file version 1a – Released May 2014.

Release file version 2a – Released November 2018. Insulin and Proinsulin data from the FOF samples have been added to this release file.

Release file version 3a – Released March 2019. Details of genetic data available for Fathers have been added to this release file (frequencies presented below).

GWAS_1kg_father 1000Genome imputation data is available for this person

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No	861	33.3	33.3	33.3
	1 Yes	1722	66.7	66.7	100.0
	Total	2583	100.0	100.0	

Table 1: Summary of sample sizes for each of the Father's blood assays

Assay	FOF1
Cholesterol	1933
CRP	1890
Glucose	1933
Haemoglobin	1950
HDL Cholesterol	1933
LDL Cholesterol	1933
Triglycerides	1933
vLDL cholesterol	1933
Proinsulin	1850
Insulin	1930

Table 2: Variable names and labels for the available Father's blood samples

Variable	Label
Hb_FOF1	Haemoglobin, fasting FOF1
glucose_FOF1	Glucose mmol/l, fasting FOF1
chol_FOF1	Cholesterol mmol/l, fasting FOF1
trig_FOF1	Triglycerides mmol/l, fasting FOF1
hdl_FOF1	HDL cholesterol mmol/l, fasting FOF1
ldl_FOF1	LDL cholesterol mmol/l, fasting FOF1
vldl_FOF1	vLDL cholesterol mmol/l, fasting FOF1
crp_FOF1	C-Reactive Protein mg/l, fasting FOF1
Proinsulin_FOF1	Proinsulin pmol/L, fasting FOF1
Insulin_FOF1	Insulin uU/ml, fasting FOF1
GWAS_1kg_father	1000Genome imputation data is available for this person