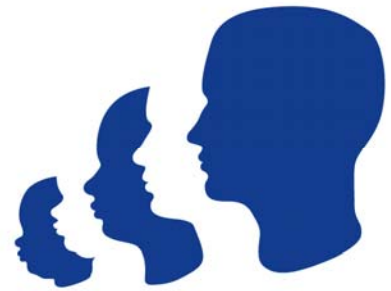


Dunedin Multidisciplinary
Health & Development
Study

DMHDS



DMHDS DATA DIRECTORY

PHASE 0: PERINATAL DATA

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PHASE 0: PERINATAL DATA

FILE: PHASE00\BUCKFD00

NOTES:

This data set contains perinatal measures divided into three parts.

1. ORIGINAL PERINATAL MEASURES: The first part of the data set (variables A1-29; B1-5; C1-5; D2; F2) contains most of the original data collected by P. M. Buckfield on the DMHDS sample of 1037 babies born at Dunedin's Queen Mary Hospital between April 1 1972 and March 31 1973 (some of the original data has been lost).
2. CREATED PERINATAL MEASURES: The second part of the data set (variables A30-49; B6) contains constructed perinatal measures for 1037 of the 1682 sample members that were followed up as part of the Dunedin Multidisciplinary Health and Development Study (DMHDS). These perinatal measures were constructed from the original Buckfield data (variables A1-29; B1-5; C1-5; D2; F2).
3. PERINATAL INSULT SCORES: The last part of this data set (variables A50-54) contain the perinatal 'Insult Scores' developed by P. A. Silva. The Insult Scores were created by adding a combination of the original perinatal measures and the created perinatal measures.

CONTENTS:

1. Perinatal measures on the DMHDS sample (N=1037)
2. Created perinatal measures for the DMHDS sample
3. Insult Scores for the DMHDS sample

PERINATAL MEASURES ON THE DMHDS SAMPLE (N=1037):

The following perinatal measures are most of the original data collected by P. M. Buckfield on the DMHDS sample of 1037 babies born at Dunedin's Queen Mary Hospital between April 1 1972 and March 31 1973 (some of the original data has been lost).

SNUM (D1) DMHD Study member number
(201-1237)

HOSPNUM (F1) Hospital number (1373-982975)

F2 Date of birth (ddmmyy, ie. first 2 digits = day (1-31, 99=missing), second 2 digits = month (1-12, 99=missing), last 2 digits = year (72-73, 99=missing))

A1 Race of child (1=European, 2=non-European, 9=missing)

A2 Marital status (1=married, 2=other, 8=single, 9=missing)

A3 S.C.B.U (0=no, 1=yes, 9=missing)

A4 B.B.A at mat. hospital (0=no, 1=yes, 9=missing)

C1 Gestational age (first 2 digits = number of weeks, last digit = number of days, 999=missing, eg. 465 = 46 weeks and 5 days)
see A30 for created gestational age category
see B6 for created birth weight by gestational age category

C2 Birth weight (decagrams, ie. kg/100, 999=missing)
see A31 for created birth weight category
see B6 for created birth weight by gestational age category

C3 Length at birth (mm, 999=missing)
see A32 for a created size for age category

C4 Head circumference (mm, 999=missing)

A5 Sex (1=female, 2=male, 9=missing)

A6 Multiple births (1=singleton, 2=first twin, 3=second twin, 9=missing)

D2 Placental weight (decagrams, ie. kg/100, 9999=missing)

A7 Umbilical vessels (0=3 vessels, 1=2 vessels)

C5 Mother's height (cm, 999=missing)

B1 Mother's age (years, 99=missing)

- B2 Mother's blood group (1-14 coding unknown, 99=missing)
- B3 Birth presentation (0-10 coding unknown, 99=missing)
- B4 Mode of delivery (0,88=normal, 1=forceps, 2=forceps+rotation, 3,4=caesarian section, 5,6=breech, 7=vacuum, 99=missing)
see A40 for created measure of mode of delivery)
- B5 Number of previous deliveries (number, 99=missing)
- A8 Number of abortions (number, 9=missing)
- A9 Number of previous still births (number, 9=missing)
- A10 Number of previous early neo-natal deaths (number, 9=missing)
- A11 Number of previous late neo-natal deaths (number, 9=missing)
- A12 Congenital fault in previous child (number, 9=missing)
- A13 Number of previous children weighing 2500 g or less (number, 9 =missing)
see A34 for created variable of previous small babies
- A14 Pre-Eclamptic Tension (PET) (0=no, 1=mild, 2=moderate, 3= severe, 4=mild PET, 5=moderate PET, 6=severe PET, 9=missing)
- A15 Eclampsia (0=no, 1=yes, 9=missing)
- A16 Antepartum haemorage (APH) second or third trimester (0=no, 1=yes, 9=missing)
see A38 for APH first semester
- A17 Accidental haemorage (0=no, 1=yes, 9=missing)
- A18 Placenta praevia (0=no, 1=yes, 9=missing)
- A19 Diabetes (0=no, 1=yes, 9=missing)
- A20 Pre-diabetes (0=no, 1=yes, 9=missing)
- A21 Glycosuria (0=no, 1=yes, 9=missing)
- A22 Other medical complications (0=no, 1=yes, 9=missing)
- A23 Other obstetric complications (0=no, 1=yes, 9=missing)
- A24 Other labour complications (0=no, 1=yes, 9=missing)
- A25 Low Apgar (0=no, 1=type 1, 2=type 2, 3=type 3, 9=missing)
see A41 for modified Apgar score

- A26 Clicking hips (0=no, 1=bilateral, 2=right, 3=left, 9=missing)
- A27 Congenital fault (0=no, 2=minor, 3=minor + major, 4=major, 9=missing)
- A28 Yerushalmy group (1-5=Yerushalmy group, 6=gestational N.K > 2.5 kg, 7=gestational N.K ≤ 2.5 kg, 9=missing)
- A29 Father's Socio-Economic Status (1-6 Elley and Irving SES, 7=student, 8=no father figure, 9=missing)
see Elley, W. B. & Irving, J. C. A socio-economic index for New Zealand based on levels of education and income from the 1966 census. NZ J Educ Studies 1972; 7: 153-67.

CREATED PERINATAL MEASURES FOR THE DMHDS SAMPLE:

The following perinatal measures were created for the DMHDS sample from the original perinatal measures (A1-29; B1-5; C1-5; D2; F2).

- A30 Gestational age category (0=370 to 416, 1=less than 280, 2=280 to 316, 3=317 to 369, 4=417 and greater, 5=not known, 9=missing)
constructed from C1
- A31 Birth weight category (0=251 to 400, 1=less than or equal to 150, 2=151 to 200, 3=201 to 250, 4=401 and greater, 9=missing)
constructed from C2
- A32 Size for age category (0=normal, 1=small (less than 10 percentile), 2=large (greater than 90 percentile), 3=not known, 9=missing)
constructed from C3
- A33 Epilepsy (0=no, 1=yes, 9=missing)
constructed from data that has since been lost
- A34 Previous small baby (0=no, 1=yes, 9=missing)
constructed from A13 (0=0, 1=1 to 8)
- A35 Mild hypertension (0=no, 1=yes, 9=missing)
constructed from A14 (1=1 or 4, 0=otherwise)
- A36 Moderate hypertension (0=no, 1=yes, 9=missing)
constructed from A14 (1=2 or 5, 0=otherwise)
- A37 Severe hypertension (0=no, 1=yes, 9=missing)
constructed from A14 (1=3 or 6, 0=otherwise)
- A38 Antepartum Haemorrhage (APH) first trimester (0=no, 1=yes, 9=missing)
constructed from data that has since been lost
see A16 for APH second or third trimester
- A39 Birth presentation (0,1,2 coding unknown, 9=missing)
constructed from B3 (1=4 or 5, 2=6 to 20, 0=otherwise)
- A40 Mode of delivery (0=normal, 1=forceps, 2=forceps+rotation, 3=caesarian section, 4=breech, 9=missing)
constructed from B4 (1=1, 2=2, 3=3 or 4, 4=5 or 6, 0=otherwise)
- A41 Ideopathic Respiratory Distress Syndrome (RDS) (0=no, 1=yes, 9=missing)
constructed from data that has since been lost
- A42 Apnoea (0=no, 1=yes, 9=missing)

- constructed from data that has since been lost*
- A43 Major neurological signs (0=no, 1=yes, 9=missing)
constructed from data that has since been lost
- A44 Minor neurological signs (0=no, 1=yes, 9=missing)
constructed from data that has since been lost
- A45 Rhesus greater than 15 (0=no, 1=yes, 9=missing)
constructed from data that has since been lost
- A46 ABO greater than 15 (0=no, 1=yes, 9=missing)
constructed from data that has since been lost
- A47 Immature Jaundice (0=no, 1=yes, 9=missing)
constructed from data that has since been lost
- A48 Minor congenital fault (0=no, 1=yes, 9=missing)
constructed from A27 (1=2, 0=otherwise)
- A49 Major congenital fault (0=no, 1=yes, 9=missing)
constructed from A27 (1=3 or 4, 0=otherwise)
- B6 Birth Weight (BW) by Gestational Age (GA) category (0=normal, 1=GA unknown - BW normal, 2=GA unknown - BW low, 3=GA preterm - BW high, 4=GA preterm - BW low, 5=GA preterm - BW normal, 6=GA normal - BW low, 7=GA normal - BW high, 8=GA post term - BW high, 9=GA post term - BW low, 10=GA post term - BW normal, 99=missing)
constructed from C1 and C2

INSULT SCORES FOR THE DMHDS SAMPLE:

The following variables were developed by P. A. Silva and were created for the DMHDS sample from a combination of the perinatal measures (A1-29; B1-5; C1-5; D2; F2) and the created perinatal measures (A30-49; B6).

A50 Maternal Factor Insult Score

$A19 + A20 + A21 + A33 + A34 + A35 + A36 + A37 + A38 + A15 + A16 + A17 + A18$

ie. Add an unweighted score of:

Diabetes

Prediabetes

Glycosuria

Epilepsy

Previous small baby

Mild hypertension

Moderate hypertension

Severe hypertension

Antepartum haemorage first trimester

Eclampsia

Antepartum haemorage second or third trimester

Accidental haemorage

Placenta praevia

A51 Neonatal Insult Score

Add 1 for a score > 0 on A30-32, A41-48 (except for A30=5 and A32=3)

ie. Add 1 for a score > 0 on:

Gestational age category

Birth weight category

Size for age category

Apgar

Ideopathic Respiratory Distress Syndrome

Apnoea

Major neurological signs

Minor neurological signs

Rhesus

ABO

Immature jaundice

A52 Grand Perinatal Insult Score (unweighted)

Add 1 for a score > 0 on A30-48, A15-21 (except for A30=5 and A32=3)

ie. Add an unweighted score of:

Gestational age category

Birth weight category

Size for age category

Epilepsy

Previous small baby

Mild hypertension

Moderate hypertension

Severe hypertension
Antepartum haemorrhage first trimester
Birth presentation
Mode of delivery
Apgar
Ideopathic Respiratory Distress Syndrome
Apnoea
Major neurological signs
Minor neurological signs
Rhesus
ABO
Immature jaundice
Eclampsia
Antepartum haemorrhage second or third trimester
Accidental haemorrhage
Placenta praevia
Diabetes
Prediabetes
Glycosuria

- A53 **Grand Perinatal Insult Score (weighted)**
Add 1 for a score = 1 on A15-21, A32-44, A46-48
Add 1 for a score = 3 or 4 on A30-31
Add 2 for a score = 2 on A30-31
Add 2 for a score = 1 on A45
Add 3 for a score = 1 on A30-31
ie. Add a weighted score of:
Gestational age category
Birth weight category
Size for age category
Epilepsy
Previous small baby
Mild hypertension
Moderate hypertension
Severe hypertension
Antepartum haemorrhage first trimester
Birth presentation
Mode of delivery
Apgar
Ideopathic Respiratory Distress Syndrome
Apnoea
Major neurological signs
Minor neurological signs
Rhesus
ABO
Immature jaundice
Eclampsia
Antepartum haemorrhage second or third trimester
Accidental haemorrhage

Placenta praevia

Diabetes

Prediabetes

Glycosuria

A54 Validated Insult Score

Add 1 for a score = 1,2 or 3 on A30-31

Add 1 for a score = 1 on A32, A34, A36-37, A42-43

ie. Add an unweighted score of:

Gestational age category

Birth weight category

Size for age category

Previous small baby

Moderate hypertension

Severe hypertension

Ideopathic Respiratory Distress Syndrome

Apnoea