

## Appendix W Topics covered in the NDNS report and archived data

Topic area and age group included in reported/archived data	Included in current report	Included in archived data	Intend to report/archive in future
<b><u>Interviewer visit</u></b>			
Height measurement (age 2+ years)	•	•	•
Weight measurement (all ages)	•	•	•
ActiGraph (age 4-15 years <sup>1</sup> )	•	•	•
Recent Physical Activity Questionnaire (RPAQ) (age 16+ years) <sup>2</sup>	•	•	•
<b>CAPI (Main Food Provider)</b>			
Household information		•	•
Cooking and storage facilities		•	•
Shopping for food		•	•
Food preparation		•	•
Job and income of Household Reference Person		•	•
<b>CAPI (Individual participant)</b>			
Cooking skills (age 7+ years) <sup>3</sup>		•	•
Access to food at school (aged 1.5-15 years (or aged 16/17 years and in full-time education)		•	•
Eating out and other provision (all ages)		•	•
Eating habits (all ages)		•	•

<b>Topic area and age group included in reported/archived data</b>	<b>Included in current report</b>	<b>Included in archived data</b>	<b>Intend to report/archive in future</b>
Food allergies/avoidance <sup>4</sup>	•	•	•
General health (all ages)		•	•
Oral health (age 16+ years)		•	•
Drinking (age 8+ years; those aged 8-17 years given a self-completion booklet)	•	•	•
Smoking (age 8+ years; those aged 8-17 years given a self-completion booklet)	•	•	•
Education (age 16+ years)	•	•	•
Use of dietary supplements (including whether a participant is a supplement taker for the previous 12 months) (all ages)	•	•	•
Sun exposure - (where (latitude) and when holidays were taken)		•	•
<b>Dietary data (1.5 years and over)</b>			
Daily intake of all individual foods and nutrients from each of the individual foods by day and eating occasion		•	•
Where and with whom data (including whether at table/tv on) for each eating occasion		•	•
Daily intake of food groups		•	•
Disaggregated daily intakes for meat, fish, fruit and vegetables		•	•

<b>Topic area and age group included in reported/archived data</b>	<b>Included in current report</b>	<b>Included in archived data</b>	<b>Intend to report/archive in future</b>
Per cent contribution of food groups to energy and nutrients	•	•	•
Daily intake of energy and nutrients		•	•
Mean intake of food groups	•	•	•
Disaggregated mean intakes for meat, fish, fruit and vegetables	•	•	•
Mean intake of energy and macronutrients	•	•	•
Mean intake of micronutrients from food sources only	•	•	•
Mean intake of micronutrients from all sources including supplements	•	•	•
Mean micronutrient intakes as per cent RNI from food sources only	•	•	•
Mean micronutrient intakes as per cent RNI from all sources including supplements	•	•	•
Per cent below LRNI for micronutrients from food sources only	•	•	•
Per cent below LRNI for micronutrients from all sources including supplements	•	•	•
Use of dietary supplements (including whether a participant is a supplement taker during the diary period)	•	•	•
<b>Energy expenditure data (doubly labelled water) (sub-sample of participants age 4+ years)</b>	•	•	•

Topic area and age group included in reported/archived data	Included in current report	Included in archived data	Intend to report/archive in future
<b><u>Nurse visit</u></b>			
Infant length measurements (age 1.5 -2 years)		•	•
Prescribed medicines (all ages)		•	•
Mid upper arm circumference (age 2-15 years)		•	•
Blood pressure (age 4+ years) <sup>5</sup>	•	•	•
Waist and hip circumference (age 11 + years) <sup>5</sup>	•	•	•
Body Mass Index (all ages)	•	•	•
Demi-span (ages 65+ or no height measurement taken)	• <sup>6</sup>	•	•
<b>24-hour Urine (age 4-18 and 65+ years)<sup>7</sup></b>			
Sodium	•	•	•
Potassium <sup>8</sup>	•	•	•
Nitrogen <sup>8</sup>	•	•	•
Creatinine <sup>8</sup>	•	•	•
Urea <sup>8</sup>	•	•	•
PABA <sup>9</sup>	•	•	•
<b>24-hour Urine (age 19-64 years)<sup>7</sup></b>			
Sodium <sup>10</sup>		•	•
Potassium <sup>8</sup>	•	•	•
Nitrogen <sup>8</sup>	•	•	•

Topic area and age group included in reported/archived data	Included in current report	Included in archived data	Intend to report/archive in future
Creatinine <sup>8</sup>	•	•	•
Urea <sup>8</sup>	•	•	•
PABA <sup>9</sup>	•	•	•
<b>Blood Sample (1.5-10 years)</b>			
Haemoglobin concentration	•	•	•
Plasma ferritin	•	•	•
Plasma vitamin C	•	•	•
Vitamin B <sub>12</sub>	•	•	•
Erythrocyte transketolase: activation coefficient (ETKAC)	•	•	•
<b>Blood Sample (1.5-10 years) <i>continued</i></b>			
Erythrocyte glutathione reductase: activation coefficient (EGRAC)	•	•	•
Plasma vitamin B <sub>6</sub> : Pyridoxyl-5-phosphate	•	•	•
Red cell folate <sup>11</sup>		•	•
Serum folate <sup>11,12</sup>		•	•
Plasma retinol	•	•	•
Plasma $\alpha$ -carotene	•	•	•
Plasma $\beta$ -carotene	•	•	•
Plasma $\alpha$ -cryptoxanthin	•	•	•
Plasma $\beta$ -cryptoxanthin	•	•	•

<b>Topic area and age group included in reported/archived data</b>	<b>Included in current report</b>	<b>Included in archived data</b>	<b>Intend to report/archive in future</b>
Plasma lycopene	•	•	•
Plasma lutein and zeaxanthin	•	•	•
Plasma 25-hydroxyvitamin D <sup>13</sup>	•	•	•
Plasma α-tocopherol	•	•	•
Serum total cholesterol	•	•	•
Serum HDL cholesterol	•	•	•
Serum Non-HDL cholesterol	•	•	•
Plasma selenium <sup>14</sup>	•	•	•
<b>Blood Sample (1.5-10 years) continued</b>			
Plasma zinc <sup>14</sup>	•	•	•
Haematocrit <sup>15</sup>	•	•	•
Serum high sensitivity C-reactive protein <sup>15</sup>	•	•	•
Plasma transferrin receptors <sup>14,15</sup>	•	•	•
Plasma vitamin B <sub>6</sub> : Pyridoxic acid <sup>15</sup>	•	•	•
Plasma homocysteine <sup>14,15</sup>	•	•	•
Plasma retinyl palmitate <sup>15</sup>	•	•	•
Plasma γ-tocopherol <sup>15</sup>	•	•	•
Serum triglycerides <sup>15,16</sup>	•	•	•
Red blood cell count		•	•
Mean cell volume		•	•
Mean cell haemoglobin		•	•

Topic area and age group included in reported/archived data	Included in current report	Included in archived data	Intend to report/archive in future
Mean cell haemoglobin concentration		•	•
Red cell distribution width		•	•
Platelet count		•	•
White cell count		•	•
Neutrophil count		•	•
Lymphocyte count		•	•
<b>Blood Sample (1.5-10 years) continued</b>			
Monocyte count		•	•
Eosinophil count		•	•
Basophil count		•	•
Plasma creatinine		•	•
Glycosylated haemoglobin (HBA1c) <sup>17</sup>		•	•
Glucose <sup>14,17</sup>		•	•
Triiodothyronine, Free (T3) <sup>17</sup>		•	•
Thyroxine, free (T4) <sup>17</sup>		•	•
Thyrotropin (thyroid-stimulating hormone, TSH) <sup>17</sup>		•	•
<b>Blood Sample (age 11-18 years)</b>			
Haemoglobin concentration	•	•	•
Plasma ferritin	•	•	•
Plasma vitamin C	•	•	•
Vitamin B <sub>12</sub>	•	•	•

<b>Topic area and age group included in reported/archived data</b>	<b>Included in current report</b>	<b>Included in archived data</b>	<b>Intend to report/archive in future</b>
Erythrocyte transketolase: activation coefficient (ETKAC)	•	•	•
Erythrocyte glutathione reductase: activation coefficient (EGRAC)	•	•	•
Plasma vitamin B <sub>6</sub> : Pyridoxyl-5-phosphate	•	•	•
<b>Blood Sample (11-18 years) <i>continued</i></b>			
Red cell folate <sup>11</sup>		•	•
Serum folate <sup>11,12</sup>		•	•
Plasma retinol	•	•	•
Plasma $\alpha$ -carotene	•	•	•
Plasma $\beta$ -carotene	•	•	•
Plasma $\alpha$ -cryptoxanthin	•	•	•
Plasma $\beta$ -cryptoxanthin	•	•	•
Plasma lycopene	•	•	•
Plasma lutein and zeaxanthin	•	•	•
Plasma 25-hydroxyvitamin D <sup>13</sup>	•	•	•
Plasma $\alpha$ -tocopherol	•	•	•
Serum total cholesterol	•	•	•
Serum HDL cholesterol	•	•	•
Serum Non-HDL cholesterol	•	•	•
Plasma selenium	•	•	•
Plasma zinc	•	•	•



Topic area and age group included in reported/archived data	Included in current report	Included in archived data	Intend to report/archive in future
Haematocrit <sup>15</sup>	•	•	•
<b>Blood Sample (11-18 years) continued</b>			
Serum high sensitivity C-reactive protein <sup>15</sup>	•	•	•
Plasma transferrin receptors <sup>15</sup>	•	•	•
Plasma vitamin B <sub>6</sub> : Pyridoxic acid <sup>15</sup>	•	•	•
Plasma homocysteine <sup>15</sup>	•	•	•
Plasma retinyl palmitate <sup>15</sup>	•	•	•
Plasma $\gamma$ -tocopherol <sup>15</sup>	•	•	•
Serum triglycerides <sup>15</sup>	•	•	•
Red blood cell count		•	•
Mean cell volume		•	•
Mean cell haemoglobin		•	•
Mean cell haemoglobin concentration		•	•
Red cell distribution width		•	•
Platelet count		•	•
White cell count		•	•
Neutrophil count		•	•
Lymphocyte count		•	•
Monocyte count		•	•
Eosinophil count		•	•
<b>Blood Sample (11-18 years) continued</b>			

Topic area and age group included in reported/archived data	Included in current report	Included in archived data	Intend to report/archive in future
Basophil count		•	•
Plasma creatinine		•	•
Glycosylated haemoglobin (HBA1c) <sup>17</sup>		•	•
Glucose <sup>17</sup>		•	•
Triiodothyronine, Free (T3) <sup>17</sup>		•	•
Thyroxine, free (T4) <sup>17</sup>		•	•
Thyrotropin (thyroid-stimulating hormone, TSH) <sup>17</sup>		•	•
<b>Blood Sample (age 19-64 years)</b>			
Haemoglobin concentration	•	•	•
Plasma ferritin	•	•	•
Plasma vitamin C	•	•	•
Vitamin B <sub>12</sub>	•	•	•
Erythrocyte transketolase: activation coefficient (ETKAC)	•	•	•
Erythrocyte glutathione reductase: activation coefficient (EGRAC)	•	•	•
Plasma vitamin B <sub>6</sub> : Pyridoxyl-5-phosphate	•	•	•
Red cell folate <sup>11</sup>		•	•
Serum folate <sup>11,12</sup>		•	•
<b>Blood Sample (19-64 years) continued</b>			
Plasma retinol	•	•	•
Plasma $\alpha$ -carotene	•	•	•

Topic area and age group included in reported/archived data	Included in current report	Included in archived data	Intend to report/archive in future
Plasma $\beta$ -carotene	•	•	•
Plasma $\alpha$ -cryptoxanthin	•	•	•
Plasma $\beta$ -cryptoxanthin	•	•	•
Plasma lycopene	•	•	•
Plasma lutein and zeaxanthin	•	•	•
Plasma 25-hydroxyvitamin D <sup>13</sup>	•	•	•
Plasma $\alpha$ -tocopherol	•	•	•
Serum total cholesterol	•	•	•
Serum HDL cholesterol	•	•	•
Serum Non-HDL cholesterol	•	•	•
Plasma selenium	•	•	•
Plasma zinc	•	•	•
Haematocrit <sup>15</sup>	•	•	•
Serum high sensitivity C-reactive protein <sup>15</sup>	•	•	•
Plasma transferrin receptors <sup>15</sup>	•	•	•
<b>Blood Sample (19-64 years) continued</b>			
Plasma vitamin B <sub>6</sub> : Pyridoxic acid <sup>15</sup>	•	•	•
Plasma homocysteine <sup>15</sup>	•	•	•
Plasma retinyl palmitate <sup>15</sup>	•	•	•
Plasma $\gamma$ -tocopherol <sup>15</sup>	•	•	•
Serum triglycerides <sup>15</sup>	•	•	•

Topic area and age group included in reported/archived data	Included in current report	Included in archived data	Intend to report/archive in future
Red blood cell count		•	•
Mean cell volume		•	•
Mean cell haemoglobin		•	•
Mean cell haemoglobin concentration		•	•
Red cell distribution width		•	•
Platelet count		•	•
White cell count		•	•
Neutrophil count		•	•
Lymphocyte count		•	•
Monocyte count		•	•
Eosinophil count		•	•
Basophil count		•	•
Plasma creatinine		•	•
<b>Blood Sample (19-64 years) <i>continued</i></b>			
Glycosylated haemoglobin (HBA1c) <sup>17</sup>		•	•
Glucose <sup>17</sup>		•	•
Triiodothyronine, Free (T3) <sup>17</sup>		•	•
Thyroxine, free (T4) <sup>17</sup>		•	•
Thyrotropin (thyroid-stimulating hormone, TSH) <sup>17</sup>		•	•
<b>Blood Sample (age 65+ years)</b>			
Haemoglobin concentration	•	•	•

<b>Topic area and age group included in reported/archived data</b>	<b>Included in current report</b>	<b>Included in archived data</b>	<b>Intend to report/archive in future</b>
Plasma ferritin	•	•	•
Plasma vitamin C	•	•	•
Vitamin B <sub>12</sub>	•	•	•
Erythrocyte transketolase: activation coefficient (ETKAC)	•	•	•
Erythrocyte glutathione reductase: activation coefficient (EGRAC)	•	•	•
Plasma vitamin B <sub>6</sub> : Pyridoxyl-5-phosphate	•	•	•
Red cell folate <sup>11</sup>		•	•
Serum folate <sup>11,12</sup>		•	•
Plasma retinol	•	•	•
Plasma $\alpha$ -carotene	•	•	•
<b>Blood Sample (age 65+ years) <i>continued</i></b>			
Plasma $\beta$ -carotene	•	•	•
Plasma $\alpha$ -cryptoxanthin	•	•	•
Plasma $\beta$ -cryptoxanthin	•	•	•
Plasma lycopene	•	•	•
Plasma lutein and zeaxanthin	•	•	•
Plasma 25-hydroxyvitamin D <sup>13</sup>	•	•	•
Plasma $\alpha$ -tocopherol	•	•	•
Serum total cholesterol	•	•	•
Serum HDL cholesterol	•	•	•

<b>Topic area and age group included in reported/archived data</b>	<b>Included in current report</b>	<b>Included in archived data</b>	<b>Intend to report/archive in future</b>
Serum Non-HDL cholesterol	•	•	•
Plasma selenium	•	•	•
Plasma zinc	•	•	•
Haematocrit <sup>15</sup>	•	•	•
Serum high sensitivity C-reactive protein <sup>15</sup>	•	•	•
Plasma transferrin receptors <sup>15</sup>	•	•	•
Plasma vitamin B <sub>6</sub> : Pyridoxic acid <sup>15</sup>	•	•	•
Plasma homocysteine <sup>15</sup>	•	•	•
<b>Blood Sample (age 65+ years) <i>continued</i></b>			
Plasma retinyl palmitate <sup>15</sup>	•	•	•
Plasma $\gamma$ -tocopherol <sup>15</sup>	•	•	•
Serum triglycerides <sup>15</sup>	•	•	•
Red blood cell count		•	•
Mean cell volume		•	•
Mean cell haemoglobin		•	•
Mean cell haemoglobin concentration		•	•
Red cell distribution width		•	•
Platelet count		•	•
White cell count		•	•
Neutrophil count		•	•
Lymphocyte count		•	•

Topic area and age group included in reported/archived data	Included in current report	Included in archived data	Intend to report/archive in future
Monocyte count		•	•
Eosinophil count		•	•
Basophil count		•	•
Plasma creatinine		•	•
Glycosylated haemoglobin (HBA1c) <sup>17</sup>		•	•
Glucose <sup>17</sup>		•	•
<b>Blood Sample (age 65+ years) continued</b>			
Triiodothyronine, Free (T3) <sup>17</sup>		•	•
Thyroxine, free (T4) <sup>17</sup>		•	•
Thyrotropin (thyroid-stimulating hormone, TSH) <sup>17</sup>		•	•

<sup>1</sup> Ages 4-10 years only in Year 1.

<sup>2</sup> Included from Year 2.

<sup>3</sup> Questions included in Year 1 only.

<sup>4</sup> The published report only includes information about vegetarian/vegan diets.

<sup>5</sup> Year 1-4 report covers adults (aged 19 years and over) only.

<sup>6</sup> In the report, demispan data is combined with height

<sup>7</sup> Urinary analyte results have only been provided in the Year 1-4 report and archive dataset for samples that are deemed to be complete.

<sup>8</sup> Descriptive statistics for this analyte are presented in Appendix S of the Year 1-4 report.

<sup>9</sup> Whilst % PABA recovery results have not been included in the archive dataset, a variable indicating whether a sample is complete, over or incomplete by the standard criteria or the child claim only criteria has been provided in the archive dataset.

<sup>10</sup> Results of a salt intake survey based on 24-hour urinary sodium (carried out in 2011) has been published on DH's website. (Assessment of dietary sodium in adults aged 19-64 years in England): <http://transparency.dh.gov.uk/2012/06/21/sodium-levels-among-adults/> (accessed 10/03/14)

<sup>11</sup> Results have been delayed due to problems with the analysis and will be published as soon as they are available.

<sup>12</sup> In addition to total serum folate data, data for the individual forms of serum folate will be included in the archive dataset.

---

<sup>13</sup> 25-hydroxyvitamin D was measured in plasma for Years 1-3 and for Year 4 samples taken during the first six issued fieldwork months (404-409). For samples taken during the last six issued fieldwork months of Year 4 (410-412), 25-hydroxyvitamin D was measured in serum. Concentrations of 25-hydroxyvitamin D have been shown to be the same in both plasma and serum.

<sup>14</sup> This analyte was only measured for participants aged seven years and over.

<sup>15</sup> Descriptive statistics for this analyte are presented in Appendix Q of the Year 1-4 report.

<sup>16</sup> This analyte was only measured for participants aged four years and over who provided a fasted blood sample.

<sup>17</sup> This analyte was funded separately. Results are not included in this report but will be archived.