

# BRHS 2003 Questionnaire data

## Data notes and Questionnaire coding instructions protocol



### 2003 (Q03)

Questionnaire method	Self-Administered postal questionnaire
Type of questionnaire	Structured questionnaire with open-ended questions coded using a questionnaire coding protocol
BRHS study time point (Year of follow-up)	23-25 year follow-up
Year	2003
Mailing dates	1/1/2003 - 22/1/2003 with reminders sent at 6 weeks
Age range of sample	62-85
Number of completed questionnaires	3981
Response rate %	80%

# BRHS 2003 (Q03) Questionnaire: Data notes and questionnaire coding instructions protocol

## Data notes and coding

**Notes** on coding inconsistencies, known errors, other data anomalies and additional response codes introduced during the coding stage are made for each affected question. Where possible recommendation on how the data can be treated is given.

**Coding of open-ended questions:** Responses to open-ended questions were coded (given numerical codes/categorised) using a questionnaire coding instructions protocol.

## General coding instructions

### Responses of Yes and No

Throughout the questionnaire a “**yes**” response is coded as 1 and a “**no**” response is coded as 2.  
1=Yes, 2=No

### Missing values

Missing values are left blank and become dots(.) in the data file. See also coding notes for individual questions.

## Data notes

### Questions 25.0 (a) taking aspirin tablets regularly

#### Known data errors/inconsistencies

The responses to question 25.0(a) for the following participants have been found to be wrong/inconsistent. In this instance some participants reported taking aspirin in the medications table (question 26) but left question 25.0a blank. This can be corrected by overwriting the original entry by:

SAS code

```
if serial eq 2188275 then q03q25_0a=1;  
if serial eq 105216 then q03q25_0a=1;  
if serial eq 137479 then q03q25_0a=1;  
if serial eq 121881 then q03q25_0a=1;  
if serial eq 211421 then q03q25_0a=1;  
if serial eq 220573 then q03q25_0a=1;
```

The “serial” variable contains the participant ID, q03q25\_0a is the variable for question 25.0(a).  
The code above changes the response to “yes” (=1) for some of the study participants.

# BRITISH REGIONAL HEART STUDY

## BRHS 2003 Questionnaire Coding schedule

### GENERAL

Yes = 1, No = 2

**Q4.7**

### INVESTIGATIONS

Make sure that information is correctly recorded elsewhere.

Aortic Graft= Aortic Aneurysm

Heart related = Other Heart Trouble

Cardiac Catheter = Angiogram

Q4.7 other

Details/New Codes

- 1 Valve related
- 2 Pacemaker
- 3 Surgery on arteries
- 9 Other

**Q6.0**

### CANCER

(See ICD 9 for additional codes)

- 165 Respiratory Unspecified
- 162 Trachea, Lung and Bronchus
- 161 Larynx
- 175 Breast
- 193 Thyroid
- 145 Oral (Lip, Salivary glands, Pharynx, Tongue)
- 159 Gastrointestinal Unspecified
- 150 Oesophagus
- 151 Stomach
- 152 Bowel
- 153 Colon
- 154 Rectum
- 157 Pancreas
- 155 Liver
- 185 Prostate
- 186 Testes
- 187 Genito-urinary Unspecified
- 188 Bladder
- 189 Kidney
- 208 Blood Unspecified
- 207 Leukaemia
- 208 Lymphoma /CLL
- 170 Bone all sites
- 171 Connective and other soft tissue
- 172 Skin Unspecified / Melanoma
- 172 Rodent Ulcer
- 190 Eye
- 191 Brain Tumour
- 192 Other Neurological Sites
- 194 Endocrine glands
- 195 Malignant neoplasms of other and ill-defined sites
- 239 Neoplasms of unspecified nature
- 239 Type not known

7.1	<b>ARTHRITIS</b>	Add to list Check data 1 Osteoarthritis 2 Rheumatoid arthritis 3 Gout 4 Polymyalgia Rheumatic Arthritis PMR 5 Psoriasis Arthritis 6 Ankylosing Spondylitis 7 Reactive Arthritis 8 Multiple kinds of Arthritis
7.3	<b>JOINTS AFFECTED</b>	1 Neck 2 Shoulder 3 Back / Lower back 4 Elbows/ Arms 5 Upper Limbs 6 Lower Limbs 7 Facial (Jaw) 9 Other Multi Combination Fingers and Knuckles = Hands Toes and Ankles =Feet
8.0 (n)	<b>CONDITIONS</b>	Use ICD 9
9.0	<b>JOINT PAIN, SWELLING OF STIFFNESS</b>	As Q7.3 above
14.1	<b>WEIGHT LOSS METHODS</b>	1 Medication 2 Other
14.5	<b>WEIGHT LOSS</b> due to	Death of partner = Illness (Death of partner coded due to illness)
17.0	<b>HEARING</b>	3 Occasional use of hearing aid or has one but doesn't use it.
18.4 & 18.5	<b>SLEEPING</b>	Enter Hours & Minutes
18.7	<b>HEALTH SCALE</b>	Range from 0-100. Estimate the point on the scale
19.4	<b>SPORTING ACTIVITIES</b> (taken from Q20)	Round DOWN to nearest hour 01 Bowls/skittles 02 Swimming 03 Golf 04 Cycling 05 Racket sports (tennis, badminton, squash, table tennis) 06 Dancing 07 Rowing 08 Walking, Hiking 09 Fitness, weight training, Gym, Running, jogging 10 Fishing 11 Other
20.1/20.2	<b>SMOKING</b>	Always round UP number of cigarettes smoked
20.5 (e)	Methods offered	1 If anything recorded
21.1(g)	Stop smoking – other	1 If anything recorded
23	Alcohol intake	Round UP amount of Alcohol consumed

25.1	<b>CHOLESTEROL LOWERING DRUGS</b>	list created using BNF 44 If more than one recorded give priority to STATINS	
First digit denotes the type, Second digit provides the drug name			
Fibrates			
	11	Bezafibrate, Bezalip, Bezalip mono	Liparol XL, Bezagen XL, Zimbacol XL
	12	Ciprofibrate	Modalim
	13	Fenofibrate	Lipantil, Supralip 160
	14	Gemfibrozil	Lopid
Statins			
	21	Atorvastatin	Lipitor
	22	Fluvastatin	Lescol
	23	Pravastatin	Lipostat
	24	Simvastatin	Zocor
	25	Cerivastatin	Lipobay
	20	STATIN so described	
Anion-exchange resin			
	31	Colestyramine	Questran, Questran light
	32	Colestipol	Colestid
Ispaghula			
	41	Fybozest Orange	
Nicotinic acid group			
	51	Acipimox	Olbetam
	52	Nicotinic acid	Nicotinic acid tablets
Fish oils			
	61	OMEGA-3-Acid Ethyl esters	Omacor
	62	OMEGA-3- Marine Triglycerides	Maxepa
25.1 (b)	Record Statin dose only		

## MEDICINES TABLE

26.0

Details of **ALL medicines** ( up to 10 medicines)

### USE BNF 44 SOURCE: WEBNF 44 28/03/03

Use British National Formulary (BNF) codes for coding of medicines (1-13) and ICD 9 codes (3 digits) for reason for taking the medicine in coding boxes on questionnaire. Ignore 4<sup>th</sup> digit.

Coding boxes for BNF codes

1 2 3 4 5 6

Medicine (BNF codes)

Reason for taking code as ICD9 (3 digits)

Enter **chapter** in coding boxes 1&2,  
**section** in coding boxes 3&4,  
 sub-section coding box 5 and  
 further sub-section in coding box 6

Example: A man reports taking warfarin for Atrial fibrillation

Enter **chapter:** in coding boxes 1&2 = 02  
**section:** in coding boxes 3&4 = 08  
 sub-section: coding box 5 = 2  
 further sub-section: in coding box 6 = 0

ICD 9 code for Atrial Fibrillation = 427



0	2	0	8	2	0
				4	2
					7

### MEDICINES (1-10)

Coded using the British National Formulary (BNF) codes as above.

Cholesterol Lowering Drugs	Split into subcategories
Statins	02.12.0.1 (Atorvastatin, Fluvastatin, Pravastatin, Rosuvastatin, simvastatin, Statin so described)
Bile acid sequestrants	02.12.0.2
Ezetimibe	02.12.0.3
Fibrates	02.12.0.4
Nicotinic acid group	02.12.0.5
Omega 3 fatty acid compounds	02.12.0.6
Local sclerosants	02.12.0.7

### REASON for taking medicine (1-10)

Reason is coded using ICD 9 Codes.  
 Coded only for Heart related conditions or when Medicine code (BNF code) begins with **02**  
 CVD & Diabetes Medications take priority.

#### COMMON ICD CODES

Prevention/ Dr orders	888	Blood Pressure/hypertension	401
Heart related	429	Angina	413
Circulation/ Blood related	459	Heart Attack	410
To thin Blood (anticoagulant)/ blood clots	459	Irregular heartbeat	427
Water/ Fluid Retention Oedema	457	Heart Failure	428
Pain Relief	729	Stroke	436
Leaking Heart valve	396	Diabetes	250
Cholesterol/ Lipids	272	Arthritis	716
Glaucoma	365	TIA	435

Coding of Vitamins and Minerals in the 6 OFFICE USE boxes reserved for BNF codes (see above)

**VITAMINS AND MINERALS**

- 50.01.0.0 Vitamin **A**
- 50.02.0.0 Vitamin **B**
- 50.03.0.0 Vitamin **C**
- 50.04.0.0 Vitamin **D**
- 50.05.0.0 Vitamin **E**
- 50.06.0.0 Folic Acid
- 50.09.0.0 **Mixed / Multi Vitamin**

**OILS**

- 50.11.0.0 Cod liver Oil
- 50.12.0.0 Fish Oil
- 50.13.0.0 Primrose Oil
- 50.14.0.0 Olive Oil

**MINERALS**

- 50.21.0.0 Iron
- 50.22.0.0 Calcium
- 50.23.0.0 Zinc
- 50.24.0.0 Magnesium
- 50.29.0.0 **Multi-Minerals**

**OTHER SUPPLEMENTS**

- 50.31.0.0 Ginseng
- 50.32.0.0 Garlic
- 50.33.0.0 Ginger
- 50.34.0.0 Ginko Biloba
- 50.35.0.0 Propolis B
- 50.36.0.0 Royal Jelly
- 50.37.0.0 St John's Wort
- 50.39.0.0 Other

Q26 Conditions listed in column ***Reason for taking the medicine*** are coded using ICD 9 (3 digits).  
 Ignore 4<sup>th</sup> digit.  
**NOTE:** If a 4<sup>th</sup> digit was coded it is keyed in at the data entry stage and included in the dataset.