



# British Isles Network of Congenital Anomaly Registers

## BINOCAR Standard Operating Procedure for The Extra BINOCAR Variables

Instructions for the Registration and Surveillance of Congenital Anomalies in  
England and Wales

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1.1	30 January 2015	First version put together by AS, JB and the BINO CAR Management Committee

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## Summary of extra BINOCAR variables

Here is a full list of all of the extra BINOCAR variables. The code variables are shaded grey.

Variable Number	Variable Name	Variable heading
1	centre	Centre Number
2	numloc	Local ID
3	byear	Year of birth
Risk factors – Variables 4-8		
4	pcodecon	Postcode at booking
5	pcodebth	Postcode at birth
6	fetoc_date	Date of fetocide
7	ethnic	Ethnicity of mother
8	msmoke	Maternal smoking during first trimester
Prenatal tests – Variables 9-31		
9	test1	What screening or diagnostic test brought mother to attention?
10	test1age	Gestational age at test 1
11	test1res	Results of test 1 - ICD10 codes
12	test1txt	Results of test 1 - Text
13	test2	What screening or diagnostic test did mother have?
14	test2age	Gestational age at test 2
15	test2res	Results of test 2 - ICD10 codes
16	test2txt	Results of test 2 - Text
17	test3	What screening or diagnostic test did mother have?
18	test3age	Gestational age at test 3
19	test3res	Results of test 3 - ICD10 codes
20	test3txt	Results of test 3 - Text
21	test4	What screening or diagnostic test did mother have?
22	test4age	Gestational age at test 4
23	test4res	Results of test 4 - ICD10 codes
24	test4txt	Results of test 4 - Text
25	test5	What screening or diagnostic test did mother have?
26	test5age	Gestational age at test 1
27	test5res	Results of test 4 - ICD10 codes
28	test5txt	Results of test 4 - Text
29	screened	Did mother have Down syndrome screening?
30	scanned	Did mother have anomaly scan?
31	diagnosis	Did mother have diagnostic test?

### Coding instructions for extra BINO CAR variables

Variable Number	Variable Name	Explanation and Instructions	Code
1	centre	Centre Number	Code allocated by EUROCAT
2	numloc	Local ID  Each case has a unique identification. This number is a maximum of 11 characters long, consisting of either numbers, letters or both.  ID numbers should not repeat themselves in different years.	Up to 11 digits
3	byear	Year of birth  Year taken from EUROCAT birth_date variable.	4 digit year
4	pcodecon	Postcode at booking (or first antenatal contact with mother or first postcode reported to CAR)	2-4 characters, one space, 1 number, 2 letters
5	pcodebth	Postcode at birth	2-4 characters, one space, 1 number, 2 letters
6	fetoc_date	Date of fetocide	EUROCAT format 99 = Not known for day and month 888888 = Not known if occurred
7	ethnic	Ethnicity of mother	1 = White (White British, White Irish, Any other White) 2 = Mixed (White and Black Caribbean, White and Black African, White and Asian, Any other mixed) 3 = Indian 4 = Pakistani 5 = Bangladeshi 6 = Other Asian 7 = Black Caribbean 8 = Black African 9 = Other Black 10 = Chinese 11 = Other ethnic group 99 = Not known
8	msmoke	Maternal smoking during first trimester	1 = Non smoker 2 = Ex smoker

			<p>3 = &lt;11 per day                  4 = 11-20 per day                  5 = ≥21 per day                  88 = Smoker amount known                  99 = Unknown if smoker or not</p>
9	test1	<p>What screening or diagnostic test brought mother to attention?</p>	<p>1 = Ultrasound                  5 = Serum                  6 = Combined screening                  7 = NT alone                  8 = CVS                  9 = Amniocentesis                  10 = Other/unknown screening test                  11 = Unknown antenatal diagnosis test                  12 = Not known                  13 = No test performed</p>
10	test1age	Gestational age at test 1	99 = Not known
11	test1res	<p>Results of test 1 - ICD10 codes</p> <p>List ICD10 / Soft marker codes of anomalies from test 1 separated by ;</p>	ICD10
12	test1txt	<p>Results of test 1 – Text</p> <p>List results separate by ,                  If screening test please include risk (1 in X).</p>	
13	test2	What screening or diagnostic test did mother have?	
14	test2age	Gestational age at test 2	99 = Not known
15	test2res	<p>Results of test 2 - ICD10 codes</p> <p>List ICD10 / Soft marker codes of anomalies from test 2 separated by ;</p>	ICD10
16	test2txt	<p>Results of test 2 – Text</p> <p>List results separate by ,                  If screening test please include risk (1 in X).</p>	
17	test3	What screening or diagnostic test did mother have?	
18	test3age	Gestational age at test 3	99 = Not known
19	test3res	<p>Results of test 3 - ICD10 codes</p> <p>List ICD10 / Soft marker codes of anomalies from test 3 separated by ;</p>	ICD10
20	test3txt	<p>Results of test 3 – Text</p> <p>List results separate by ,</p>	

		If screening test please include risk (1 in X).	
21	test4	What screening or diagnostic test did mother have?	
22	test4age	Gestational age at test 4	99 = Not known
23	test4res	Results of test 4 - ICD10 codes  List ICD10 / Soft marker codes of anomalies from test 4 separated by ;	ICD10
24	test4txt	Results of test 4 – Text  List results separate by , If screening test please include risk (1 in X).	
25	test5	What screening or diagnostic test did mother have?	
26	test5age	Gestational age at test 5	99 = Not known
27	test5res	Results of test 5 - ICD10 codes  List ICD10 / Soft marker codes of anomalies from test 5 separated by ;	ICD10
28	test5txt	Results of test 5 – Text  List results separate by , If screening test please include risk (1 in X).	
29	screened	Did mother have Down syndrome screening?	1 = Yes - accepted screening 2 = No - declined screening 3 = No - not offered screening as booked too late 9 = Not known
30	scanned	Did mother have anomaly scan?	1 = Yes - accepted scan 2 = No - declined scan 3 = No - not offered scan as booked too late 9 = Not known
31	diagnosis	Did mother have diagnostic test?	1 = Yes - accepted diagnostic test 2 = No - declined diagnostic test 3 = No - not offered diagnostic test as booked too late 8 = Diagnostic test not appropriate/applicable 9 = Not known

## Data Validation Rules

The following validation rules are run on the data when it is being uploaded to the BINO CAR gateway:

1. centre, numloc and byear are complete for all cases
2. ethnic only takes a value of 1-11 or 99
3. msmoke only takes a value of 1-5, 88 or 99
4. test1-5 only takes a value of 1 or 5-13
5. test1-5age only takes a value between 0 and 49
6. screened and scanned only take a value of 1-3 or 9
7. diagnosis only takes a value of 1-3, 8 or 9
8. pcodecon and/or pcodebth are complete for all cases