



Public Health  
England

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# **Annual report from the sentinel surveillance of blood borne virus testing in England: data for January to December 2020 (supplementary tables)**

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# Contents

Hepatitis A IgM testing .....	3
Hepatitis B surface antigen testing.....	5
Antenatal HBsAg screening.....	5
Non-antenatal HBsAg screening .....	6
Hepatitis C antibody testing .....	8
Hepatitis D total antibody testing.....	11
Hepatitis E IgM testing .....	12
HIV testing .....	13
Antenatal HIV screening.....	13
Non-antenatal HIV testing .....	14
HTLV testing .....	16

## Hepatitis A IgM testing

**Supplementary Table 1. Number of individuals tested, and testing positive, for anti-HAV IgM in participating centres, January to December 2020\***

PHE centre	Number of individuals tested	Number positive (%)
East of England	5,363	32 (0.6)
London	8,150	49 (0.6)
North East	1,079	24 (2.2)
North West	5,237	20 (0.4)
South East	4,621	20 (0.4)
South West	2,160	14 (0.6)
West Midlands	2,016	4 (0.2)
East Midlands	3,363	8 (0.2)
Yorkshire and Humber	3,476	5 (0.1)
Unknown	45	8 (17.8)

\*Excludes oral fluid testing, reference testing and testing from hospitals referring all samples. Data are de-duplicated subject to availability of date of birth, soundex and first initial. All data are provisional. An individual can test in more than one PHE centre.

**Supplementary Table 2. Number of individuals tested, and testing positive, for anti-HAV IgM in participating centres, January to December 2020\*†**

Age group (years)	Female		Male		Unknown		Total	
	Number of individuals tested	Number positive (%)	Number of individuals tested	Number positive (%)	Number of individuals tested	Number positive (%)	Number of individuals tested	Number positive (%)
Under 1	92	0 (0.0)	139	0 (0)	1	0 (0.0)	232	0 (0.0)
1 to 14	332	9 (2.7)	393	2 (0.5)	1	0 (0.0)	726	11 (1.5)
15 to 24	1,468	6 (0.4)	1,670	9 (0.5)	13	0 (0.0)	3151	15 (0.5)
25 to 34	3,192	9 (0.3)	3,076	13 (0.4)	66	0 (0.0)	6334	22 (0.3)
35 to 44	2,696	13 (0.5)	3,107	9 (0.3)	71	0 (0.0)	5874	22 (0.4)
45 to 54	2,547	12 (0.5)	3,159	11 (0.3)	46	1 (2.2)	5752	24 (0.4)
55 to 64	2,410	8 (0.3)	2,853	15 (0.5)	37	0 (0.0)	5300	23 (0.4)
≥65	3,748	30 (0.8)	4,178	27 (0.6)	23	0 (0.0)	7949	57 (0.7)
Unknown	65	1 (1.5)	85	0 (0.0)	28	9 (32.1)	178	10 (5.6)

\* Excludes reference testing and testing from hospitals referring all samples. Data are de-duplicated subject to availability of date of birth, soundex and first initial. All data are provisional.

**Supplementary Table 3. Number of individuals tested and testing positive for anti-HAV IgM by ethnic group, January to December 2020\***

<b>Ethnic group</b>	<b>Number of individuals tested</b>	<b>Number positive (%)</b>
Asian or Asian British origin	4,183	28 (0.7)
Black or Black British origin	796	4 (0.5)
Other and/or mixed origin	911	4 (0.4)
White or White British origin	27,510	132 (0.5)
Unknown ethnic origin	2,077	16 (0.8)

\* Excludes reference testing and testing from hospitals referring all samples. Data are de-duplicated subject to availability of date of birth, soundex and first initial. All data are provisional.

# Hepatitis B surface antigen testing

## Antenatal HBsAg screening

**Supplementary Table 4. Number of women tested, and testing positive for HBsAg through antenatal screening in participating centres, January – December 2020\***

PHE centre	Number of individuals tested	Number positive (%)
East of England	6,748	3 (0.04)
London	13,381	67 (0.5)
North East	1,337	2 (0.1)
North West	23,267	37 (0.2)
South East	16,753	21 (0.1)
South West	15,184	27 (0.2)
East Midlands	13,374	18 (0.1)
West Midlands	9,407	37 (0.4)
Yorks. and Humber	12,455	12 (0.1)
Unknown	14	0 (0.0)

\*Excludes oral fluid testing, reference testing and testing from hospitals referring all samples. Only women aged 12 to 49 years old are included. Data are de-duplicated subject to availability of date of birth, soundex and first initial. All data are provisional. Number of tests includes all test until a person is diagnosed positive, no tests are counted after a positive test, a person can be counted more than once. An individual can test in more than one PHE centre. The proportion positive is calculated using number of individuals.

## Non-antenatal HBsAg screening

**Supplementary Table 5. Number of tests, individuals tested, and individuals testing positive for HBsAg in participating centres (excluding antenatal testing), January to December 2020\***

PHE centre	Number of tests	Number of individuals tested	Number positive (%)
East of England	30,611	25,495	191 (0.7)
London	106,890	87,923	856 (1.0)
North East	20,942	17,910	99 (0.6)
North West	70,659	53,103	398 (0.7)
South East	34,849	27,121	195 (0.7)
South West	30,935	26,256	202 (0.8)
East Midlands	22,848	19,676	108 (0.5)
West Midlands	16,997	14,182	188 (1.3)
Yorks. and Humber	34,564	30,487	344 (1.1)
Unknown	1,254	1,161	30 (2.6)

\* Excludes antenatal screening, oral fluid testing, reference testing and testing from hospitals referring all samples. Data are de-duplicated subject to availability of date of birth, soundex and first initial. All data are provisional. Number of tests includes all tests until a person is diagnosed positive, no tests are counted after a positive test, a person can be counted more than once. An individual can test in more than one PHE centre. The proportion positive is calculated using number of individuals.

**Supplementary Table 6. Age and gender of individuals tested for HBsAg in participating centres (excluding antenatal testing), January to December 2020\***

Age group (years)	Female			Male			Unknown			Total		
	Number of tests	Number of individuals tested	Number positive (%)	Number of tests	Number of individuals tested	Number positive (%)	Number of tests	Number of individuals tested	Number positive (%)	Number of tests	Number of individuals tested	Number positive (%)
<b>Under 1</b>	324	298	2 (0.7)	419	387	6 (1.6)	6	5	0 (0.0)	749	690	8 (1.2)
<b>1-14</b>	2,279	2,039	16 (0.8)	2,149	1,900	9 (0.5)	25	24	0 (0.0)	4453	3963	25 (0.6)
<b>15-24</b>	19,392	18,045	75 (0.4)	19,364	17,381	147 (0.8)	749	697	4 (0.6)	39,505	36,123	226 (0.6)
<b>25-34</b>	46,559	42,904	245 (0.6)	38,821	34,444	440 (1.3)	1469	1348	14 (1.0)	86,849	78,696	699 (0.9)
<b>35-44</b>	34,402	30,537	257 (0.5)	37,063	31,868	491 (1.5)	1246	1068	26 (2.4)	72,711	63,473	774 (1.2)
<b>45-54</b>	20,423	16,613	139 (0.8)	30,368	24,261	315 (1.3)	702	610	15 (2.5)	51,493	41,484	469 (1.1)
<b>55-64</b>	19,448	14,565	65 (0.4)	26,690	19,019	139 (0.7)	400	285	5 (1.8)	46,538	33,869	209 (0.6)
<b>≥65</b>	27,563	18,809	52 (0.3)	37,943	23,755	109 (0.5)	314	164	1 (0.6)	65,820	42,728	162 (0.4)
<b>Unknown</b>	1140	1008	4 (0.4)	911	763	15 (2.0)	380	377	20 (5.3)	2431	2148	39 (1.8)

\* Excludes oral fluid, reference testing and testing from hospitals referring all samples. Data are de-duplicated subject to availability of date of birth, soundex and first initial. All data are provisional. Number of tests includes all tests until a person is diagnosed positive, no tests are counted after a positive test, a person can be counted more than once. The number of females tested may include some undergoing routine antenatal screening who could not be identified as such from the information provided. The proportion positive is calculated using number of individuals.

## Hepatitis C antibody testing

**Supplementary Table 7. Number of tests, individuals tested, and individuals testing positive for anti-HCV in participating centres, January to December 2020\***

PHE centre	Number of tests	Number of individuals tested	Number positive (%)
East of England	23,242	18,989	597 (3.1)
London	90,525	80,224	1221 (1.5)
North East	18,174	15,247	540 (3.5)
North West	68,862	52,015	1193 (2.3)
South East	33,639	27,037	946 (3.5)
South West	28,767	25,115	937 (3.7)
East Midlands	22,128	18,972	465 (2.5)
West Midlands	15,621	13,121	697 (5.3)
Yorkshire and Humber	33,313	29,744	716 (2.4)
Unknown	3,811	3,731	322 (8.6)

\*Excludes oral fluid testing, reference testing and testing from hospitals referring all samples. Data are de-duplicated subject to availability of date of birth, soundex and first initial. All data are provisional. Number of tests includes all tests until a person is diagnosed positive, no tests are counted after a positive test, a person can be counted more than once. An individual can test in more than one PHE centre. The proportion positive is calculated using number of individuals.



**Supplementary Table 8. Number of individuals tested, and testing positive for anti-HCV in participating centres by operational delivery network (ODN), January to December 2020\***

ODN	Number of tests	Number of Individuals tested	Number positive (%)
Barts	12,116	11,345	129 (1.1)
Birmingham	14,876	12,400	618 (5.0)
Bristol And Severn	25,181	21,968	450 (2.0)
Cheshire And Merseyside	23,119	18,979	335 (1.8)
Eastern Hep. Network	15,278	12,485	479 (3.8)
Greater Manchester And Eastern Cheshire	39,646	28,954	490 (1.7)
Humber And North Yorkshire	4,012	3,435	298 (8.7)
Kent Network Via Kings	10,152	8,081	232 (2.9)
Lancashire And South Cumbria	3,536	2,961	258 (8.7)
Leicester	742	498	83 (16.7)
North Central London	6,073	5,065	114 (2.3)
North East And Cumbria	18,036	15,160	524 (3.5)
Nottingham	21,295	18,475	334 (1.8)
South Thames Hep. Network	39,816	34,729	534 (1.5)
South West Peninsula	706	689	208 (30.2)
South Yorkshire	330	325	113 (34.8)
Surrey Hep. Services	1,066	973	71 (7.3)
Sussex Hep. Network	11,020	8,887	318 (3.6)
Thames Valley Hep C Network	453	449	14 (3.1)
Wessex Hep C ODN	11,403	9,352	352 (3.8)
West London	34,933	31,079	310 (1.0)
West Yorkshire	28,761	25,836	325 (1.3)
Unknown	15,532	14,322	1045 (7.3)

\*Excludes oral fluid testing, reference testing and testing from hospitals referring all samples. Data are de-duplicated subject to availability of date of birth, soundex and first initial. All data are provisional. Number of tests includes all tests until a person is diagnosed positive, no tests are counted after a positive test, a person can be counted more than once. An individual can test in more than one PHE centre. The proportion positive is calculated using number of individuals.

**Supplementary Table 9. Age and gender of individuals tested for anti-HCV in participating centres, January to December 2020\***

Age group (year)	Female			Male			Unknown			Total		
	Number of tests	Number of Individuals tested	Number positive (%)	Number of tests	Number of Individuals tested	Number positive (%)	Number of tests	Number of Individuals tested	Number positive (%)	Number of tests	Number of Individuals tested	Number positive (%)
<b>1 to 14</b>	2,124	1,895	10 (0.5)	1,929	1,719	15 (0.9)	26	25	0 (0.0)	4,079	3,639	25 (0.7)
<b>15 to 24</b>	14,963	13,836	52 (0.4)	20,598	18,208	104 (0.6)	704	642	1 (0.2)	36,265	32,686	157 (0.5)
<b>25 to 34</b>	30,214	27,574	502 (1.8)	43,290	37,631	833 (2.2)	1,391	1,265	47 (3.7)	74,895	66,470	1382 (2.1)
<b>35 to 44</b>	26,852	23,796	773 (3.2)	39,703	34,268	1849 (5.4)	1,118	991	103 (10.4)	67,673	59,055	2725 (4.6)
<b>45 to 54</b>	19,644	16,718	462 (2.8)	31,775	26,394	1529 (5.8)	675	595	77 (12.9)	52,094	43,707	2068 (4.7)
<b>55 to 64</b>	17,720	14,320	221 (1.5)	26,007	20,266	602 (3.0)	361	282	26 (9.2)	44,088	34,868	849 (2.4)
<b>≥65</b>	23,953	18,383	134 (0.7)	32,869	23,558	209 (0.9)	254	155	5 (3.2)	57,076	42,096	348 (0.8)
<b>Unknown</b>	631	542	12 (2.2)	904	781	49 (6.3)	377	374	19 (5.1)	1912	1697	80 (4.7)

\* Excludes oral fluid reference testing and testing from hospitals referring all samples. Individuals aged less than one year are excluded since positive tests in this age group may reflect the presence of passively-acquired maternal antibody rather than true infection. Data are de-duplicated subject to availability of date of birth, soundex and first initial. All data are provisional. Number of tests includes all tests until a person is diagnosed positive, no tests are counted after a positive test, a person can be counted more than once. The proportion positive is calculated using number of individuals.

## Hepatitis D total antibody testing

**Supplementary Table 10. Number of individuals tested, and testing positive, for HDV-TA and/or HDV IgM in participating centres, January to December 2020\***

PHE centre	Number of individuals tested	Number positive (%)
East of England	69	3 (4.3)
London	314	10 (3.2)
North East	15	0 (0.0)
North West	22	4 (18.2)
South East	126	1 (0.8)
South West	32	1 (3.1)
East Midlands	57	3 (3.1)
West Midlands	31	2 (6.5)
Yorkshire and Humber	109	4 (3.7)
Unknown	69	3 (4.3)

\* Data are de-duplicated subject to availability of date of birth, soundex and first initial. All data are provisional. An individual can test in more than one PHE centre.

**Supplementary Table 11. Number of individuals tested, and testing positive, for HDV-TA and/or HDV IgM in participating centres by ethnic group, January to December 2020\***

Ethnic group	Number of individuals tested	Number positive (%)
Asian or Asian British origin	152	10 (6.6)
Black or black British origin	120	3 (2.5)
Other and/or mixed origin	119	2 (1.7)
White or white British origin	271	9 (3.3)
Unknown ethnic origin	111	4 (3.6)

\* Data are de-duplicated subject to availability of date of birth, soundex and first initial. All data are provisional.

## Hepatitis E IgM testing

**Supplementary Table 12. Number of individuals tested, and testing positive, for anti-HEV IgM in participating centres, January to December 2020\***

PHE centre	Number of individuals tested	Number positive (%)
East of England	3,409	116 (3.4)
London	2,909	59 (2.0)
North East	1,765	31 (1.8)
North West	411	72 (17.5)
South East	2,578	65 (2.5)
South West	1,361	63 (4.6)
East Midlands	1,951	55 (2.8)
West Midlands	3,248	44 (1.4)
Yorkshire and Humber	1,802	66 (3.7)
Unknown	42	4 (9.5)

\* Data are de-duplicated subject to availability of date of birth, soundex and first initial. All data are provisional. An individual can test in more than one PHE centre.

**Supplementary Table 13. Number of individuals tested, and testing positive, HEV IgM in participating centres by ethnic group, January to December 2020\***

Ethnic group	Number of individuals tested	Number positive (%)
Asian or Asian British origin	2,370	50 (2.1)
Black or black British origin	271	6 (2.2)
Other and/or mixed origin	415	3 (0.7)
White or white British origin	15,887	503 (3.2)
Unknown ethnic origin	510	13 (2.5)

\*Data are de-duplicated subject to availability of date of birth, soundex and first initial. All data are provisional.

# HIV testing

## Antenatal HIV screening

**Supplementary Table 14. Number of women tested (aged 16 to 49 years), and testing positive for HIV through antenatal screening in participating centres, January to December 2020\***

<b>PHE centre</b>	<b>Number of individuals tested</b>	<b>Number positive (%)</b>
East of England	6,741	1 (0.01)
London	24,729	41 (0.2)
North East	1,565	1 (0.06)
North West	8,819	17 (0.2)
South East	16,446	10 (0.06)
South West	13,182	5 (0.04)
East Midlands	9,423	20 (0.2)
West Midlands	12,512	9 (0.07)
Yorkshire and Humber	10	0 (0.0)
Unknown	6,741	1 (0.01)

\*Excludes oral fluid testing, reference testing and testing from hospitals referring all samples. Only women aged 16 to 49 years old are included. Data are de-duplicated subject to availability of date of birth, soundex and first initial. All data are provisional. Number of tests includes all tests until a person is diagnosed positive, no tests are counted after a positive test, a person can be counted more than once. An individual can test in more than one PHE centre. The proportion positive is calculated using number of individuals.

## Non-antenatal HIV testing

**Supplementary Table 15. Number of tests, adults (16+ years old) tested, and, adults (16+ years old) testing positive for HIV in participating centres (excluding antenatal testing), January to December 2020\***

PHE centre	Number of tests	Number of individuals tested	Number positive (%)
East of England	20,109	18,069	31 (0.2)
London	213,301	184,726	1140 (0.6)
North East	23,973	21,305	70 (0.3)
North West	64,130	49,912	263 (0.5)
South East	41,972	36,035	198 (0.5)
South West	364	362	1 (0.3)
East Midlands	22,105	20,119	101 (0.5)
West Midlands	16,707	15,368	148 (1.0)
Yorkshire and Humber	39,548	35,239	152 (0.4)
Unknown	1,346	1,279	36 (2.8)

\*Excludes oral fluid testing, reference testing and testing from hospitals referring all samples. Data are de-duplicated subject to availability of date of birth, soundex and first initial. All data are provisional. Number of tests includes all tests until a person is diagnosed positive, no tests are counted after a positive test, a person can be counted more than once. An individual can test in more than one PHE centre. The proportion positive is calculated using number of individuals.

**Supplementary Table 16. Age and gender of adults (16+ years old) tested for HIV in participating centres (excluding antenatal testing), January to December 2020\***

Age group (years)	Female			Male			Unknown			Total		
	Number of tests	Number of individuals tested	Number positive (%)	Number of tests	Number of individuals tested	Number positive (%)	Number of tests	Number of individuals tested	Number positive (%)	Number of tests	Number of individuals tested	Number positive (%)
16 to 24	44,218	40,815	47 (0.1)	30,657	27,621	125 (0.5)	469	430	2 (0.5)	75,344	68,866	174 (0.3)
25 to 34	69,842	64,589	111 (0.2)	52,881	46,202	421 (0.9)	1125	998	7 (0.7)	123,848	111,789	539 (0.5)
35 to 44	42,569	38,299	146 (0.4)	40,534	34,355	338 (1.0)	919	787	9 (1.1)	84,022	73,441	493 (0.7)
45 to 54	22,547	19,372	127 (0.7)	30,993	25,116	355 (1.4)	511	427	5 (1.2)	54,051	44,915	487 (1.1)
55 to 64	18,486	15,187	70 (0.5)	25,884	20,227	193 (1.0)	294	225	1 (0.4)	44,664	35,639	264 (0.7)
≥65	25,205	20,131	34 (0.2)	32,450	24,631	87 (0.4)	270	186	2 (1.1)	57,925	44,948	123 (0.3)
Unknown	1459	1330	7 (0.5)	1,783	1,605	23 (1.4)	459	451	30 (6.7)	3,701	3,386	60 (1.8)

\* Excludes individuals aged under 16, antenatal screening, oral fluid testing, reference testing and testing from hospitals referring all samples. Data are de-duplicated subject to availability of date of birth, soundex and first initial. All data are provisional. Number of tests includes all tests until a person is diagnosed positive, no tests are counted after a positive test, a person can be counted more than once. The number of females tested may include some undergoing routine antenatal screening who could not be identified as such from the information provided. The proportion positive is calculated using number of individuals.

## HTLV testing

**Supplementary Table 17. Number of individuals tested, and testing positive, for HTLV in participating centres, January to December 2020\***

PHE centre	Number of individuals tested	Number positive (%)
East of England	1,105	8 (0.7)
London	3,216	62 (1.9)
North East	762	4 (0.5)
North West	3,011	7 (0.2)
South East	1,075	14 (1.3)
South West	109	4 (3.7)
East Midlands	14	3 (21.4)
West Midlands	284	11 (3.9)
Yorkshire and Humber	775	2 (0.3)
Unknown	13	0 (0.0)

\*Data are de-duplicated subject to availability of date of birth, soundex and first initial. All data are provisional. An individual can test in more than one PHE centre.

**Supplementary Table 18. Number of individuals tested, and testing positive, for HTLV in participating centres, January to December 2020\***

Age group (years)	Female		Male		Unknown		Total	
	Number of individuals tested	Number positive (%)	Number of individuals tested	Number positive (%)	Number of individuals tested	Number positive (%)	Number of individuals tested	Number positive (%)
Under 1	23	0 (0.0)	24	0 (0.0)	1	0 (0.0)	48	0 (0.0)
1 to 14	124	1 (0.1)	156	1 (0.6)	0	0 (0.0)	280	2 (0.7)
15 to 24	264	2 (0.1)	339	2(0.6)	6	0 (0.0)	609	4 (0.7)
25 to 34	763	8 (0.1)	733	4 (0.5)	18	0 (0.0)	1,514	12 (0.8)
35 to 44	665	10 (0.2)	746	14 (1.9)	17	0 (0.0)	1,428	24 (1.7)
45 to 54	765	14 (0.2)	960	5 (0.5)	17	0 (0.0)	1,742	19 (1.1)
55 to 64	911	9 (0.1)	1,328	9 (0.7)	15	1 (6.7)	2,254	19 (0.8)
≥65	870	9 (0.1)	1,253	13 (1.0)	9	0 (0.0)	2,132	22 (1.0)
Unknown	40	8 (2.0)	70	2 (2.9)	175	3 (1.7)	285	13 (4.6)

\* Data are de-duplicated subject to availability of date of birth, soundex and first initial. All data are provisional.



**Supplementary Table 19. Number of individuals tested, and testing positive for HTLV in participating centres by ethnic group, January to December 2020\***

<b>Ethnic group</b>	<b>Number of individuals tested</b>	<b>Number positive (%)</b>
Asian or Asian British origin	945	11 (1.2)
Black or black British origin	277	7 (2.5)
Other and/or mixed origin	175	4 (2.3)
White or white British origin	8,341	78 (0.9)
Unknown ethnic origin	512	15 (2.9)

\* Data are de-duplicated subject to availability of date of birth, soundex and first initial. All data are provisional.

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