



WHITE PAPER:

Home Oxygen Fire Prevalence in England (2013-17)



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Executive Summary

Every year hundreds of home oxygen patients die and thousands more are injured around the world as a result of fires caused by smoking, or being exposed to other sources of ignition, while using oxygen therapy. Some of these incidents lead to the death of family members, neighbours, and responding fire-fighters, not to mention extensive property damage.

The introduction of a new Home Oxygen Service in England and Wales in 2006 brought with it a number of changes, including improved patient education and the mandatory use of oxygen firebreaks (also known as thermal fuses or fire stop valves), in a bid to improve fire safety.

This report reveals the results of a Freedom of Information (FOI) request to all Clinical Commissioning Groups in England to quantify the number of oxygen fire incidents between 2013 and 2017, to assess the impact of the new measures.

The results show a much lower rate of incidents and fatalities compared with findings from previous studies either in the UK or anywhere else in the world.

Our conclusion is that the measures adopted by the National Health Service in England and Wales have led to a significant improvement in patient safety relating to oxygen fires. We hope that health authorities around the world will consider and adopt similar best practice and that this, in turn, will help save hundreds of lives.

Nearly three quarters of CCGs (73%) responded to the request. The key results were:

- 63 serious incidents resulting from fires involving home oxygen equipment were recorded in this five-year period
- Only one fatality was recorded during this time
- If these results are extrapolated to cover the full oxygen patient population, the figures would be 89 incidents and 1.4 deaths
- In the US there were 27 deaths among the equivalent patient population over five years
- In Japan there were 14 deaths among the equivalent patient population over five years

Acknowledgments

With thanks to NHS England, the Clinical Commissioning Groups that responded to the Freedom of Information request, and the Regional Oxygen Leads who supported the development of this report.

This paper reports an update on home oxygen fire incident data obtained via a Freedom of Information (FOI) request within England.

Preface

Home oxygen fires are a relatively frequent occurrence that nearly always cause minor injury but can often lead to serious injury and multiple deaths. Most home oxygen fires are caused by patients continuing to smoke whilst on oxygen.

Statistics on fires are difficult to find because few countries have a centralized, mandated recording system that specifically categorises fires involving oxygen equipment. Work by the National Fire Protection Agency in the USA provides some insight into the scale of the problem in that country, but elsewhere such data is limited.

Because of its unique structure the UK's NHS has a single reporting protocol stipulated within the regional home oxygen service agreement. Previous studies using UK home oxygen service data return relatively low death rates from fires involving home oxygen equipment.

This low death rate may be related to the fact that the UK mandated the use of oxygen firebreaks in 2006. Firebreaks are a small safety device fitted in the oxygen delivery tube close to the patient that stop the flow of oxygen if the tube ignites. Firebreaks stop the fire at the earliest time, limiting the amount of toxic smoke produced and slowing the spread of the fire.



Freedom of Information FOI Request

An FOI request (Annex A) was sent to 212 Clinical Commissioning Groups (CCGs) in England asking for information on incidents covering the period 2013 to 2017 inclusive. The FOI data request asked the following questions:

1. The number of incidents/events resulting in a fatality for each year
2. The number of incidents/events involving a fire for each year
3. The number of incidents/events involving oxygen equipment and a fire for each year
4. The number of incidents/events involving oxygen equipment, a fire and a fatality for each year

Following early feedback from CCGs about the scale of the task for questions 1) and 2) the request was amended to require only data for questions 3) and 4).

Serious Incident Reporting

The NHS has a protocol for reporting adverse events and this is applied to the home oxygen service contract. A specific home oxygen service risk matrix has been developed to help home oxygen service providers categorise incidents consistently (Annex B).

Home oxygen service providers are required under the contract to record and report all Level 3, 4 and 5 incidents to their NHS clinical lead.

Over the past 10 years, the serious incident reporting system has been called SUI (Serious Untoward Incident), SEAN (Serious Event of Adverse Nature), and is currently known as SIRI (Serious Incident Requiring Investigation).

FOI Response (Annex C & D)

Some of the CCG responses referred the request to regional clinical leads. England is divided into 10 regions, each of roughly equal size and covering numerous CCGs. Of the 10 possible regions, 4 clinical leads responsible for 5 regions provided consolidated incident data. The 5 regions covered were: South Central, South East Coast, East Midlands, Yorkshire & Humberside and North West. These account for 122 CCGs.

Responses were received from 45 CCGs associated with the remaining 5 regions not covered by a region-wide incident data response. Of these 45 responses, 36 were full responses, 3 confirmed they did not hold this data, and 6 provided incomplete data (generally providing for some but not all years requested). Only the 36 full responses were used for this analysis; the incomplete responses were not included. Changes in CCGs led to additional responses leading to 217 CCGs being analysed in total.

In total, 158 (73%) of the 217 CCGs provided data either directly or via a region-wide response.

Not all CCGs cover the same number of people, so an analysis of responses by CCG population was undertaken. The approximate population covered by each CCG is known and widely available from NHS England. The 158 CCGs that responded either directly or via a region-wide response accounted for 71% of the population.

It is not possible to know whether oxygen patients are homogeneously distributed throughout the population of CCGs, but the FOI response provides over two-thirds of the population of England and therefore reflects a large enough sample to provide a meaningful result.

Incident Data (Annex C)

The FOI response identified 63 fire incidents of SEAN Level 3-5 involving home oxygen equipment and 1 fatality for the 5-year period. These figures are taken from FOI responses covering 71% (i.e. 57,510) of the likely oxygen patient population estimated to be 81,000 in England. If extrapolated to cover the full oxygen patient population the number of incidents would be 89 leading to 1.4 deaths over 5 years.

Discussion

The number of incidents appears relatively low at first viewing. However, the *Stop the Home Fires Burning: Home Oxygen and Domestic Fires* paper by Brendan Cooper showed a disparity between service providers on SEAN level 3 incident reporting. One service provider likely operated a different threshold criterion for recording level 3 incidents recording 29 incidents in the 10-month recording period, whereas the other two service providers, who had the same number of regions between them, recorded 7 level 3 incidents over the same period.

Given that only 2 of the regions in the current study are operated by the first (higher reporting) service provider, the incident levels are consistent with those found by Brendan Cooper.

One death recorded over 5 years suggests a significantly lower rate than any previous studies findings, either from the UK or elsewhere. It is considered very unlikely that SEAN Level 5 incidents that result in death are not reported under the contract. Serious incident reporting is mandated through the NHS contract for the supply of home oxygen services. There are only 4 suppliers for the 10 regions in England, all of whom are experienced service providers with a strong safety culture.

Compared to an equivalent patient population in the US and Japan, the number of deaths are 27 and 14 respectively over five years – significantly higher than the 1.4 in England.

Further analysis reveals that patients are four times less likely to die in the event of a home oxygen fire in England than in the US, suggesting that firebreaks contribute to preventing patient fatalities.

Conclusion

The number of deaths caused by smoking whilst on oxygen in the home is now very low in England and has improved markedly. One death in 5 years is an unprecedented outcome.

There could be many reasons for this low level of fatality, including: a multidisciplinary approach to patient education (i.e. clinical, home oxygen service provider and fire services); risk assessments (including an Initial Home Oxygen Risk Mitigation - IHORM) undertaken each time the service provider visits a patient on a routine delivery or service call and the widespread mandated adoption of oxygen firebreaks.



Annex A – FOI Request Letter

Dear Sir/Madam

I am writing to you under the Freedom of Information Act 2000 to request the information detailed below. I know from the Home Oxygen Service (HOS) providers, there is a monthly report delivered to your CCG relating to Serious Incidents Requiring Investigation (SIRI), previously known as Serious Untoward incidents (SUI), and/or Serious Events of an Adverse Nature (SEAN). I am requesting the following information from these reports:

5. The number of incidents/events resulting in a fatality for each year
6. The number of incidents/events involving a fire for each year
7. The number of incidents/events involving oxygen equipment and a fire for each year
8. The number of incidents/events involving oxygen equipment, a fire and a fatality for each year

Please provide the information in the form shown below:

YEAR	Fatalities	Incidents Involving a Fire	Incidents Involving Oxygen Equipment and Fire	Incidents Involving Oxygen Equipment, a Fire and a Fatality
2017				
2016				
2015				
2014				
2013				

If it is not possible to provide the information requested due to the information exceeding the cost of compliance limits identified in Section 12, please provide records for 2017, working back in time as far as the cost constraint allows. If you are otherwise still unable to provide this information, please provide advice and assistance, under the Section 16 obligations of the Act, as to how I can refine my request.

If you can identify any ways that my request could be refined please provide further advice and assistance to indicate this.

If you have any queries please don't hesitate to contact me via email or phone and I will be happy to clarify what I am asking for, my details are outlined below.

Thank you for your time and I look forward to your response.

Annex B – Home Oxygen Service Risk Matrix

<http://emrespiratory.co.uk/downloads/documents/HOS-SIRI-Risk-Matrix.pdf>

	Consequence score (severity levels) and examples of descriptors				
	1	2	3	4	5
Domains	Negligible	Minor	Moderate	Major	Catastrophic
Smoking / Fire					
Smoking	Initial evidence of smoking whilst using or in close proximity (within 3m) to oxygen equipment. (Log as SISmok 073) Inform SHEQ & HCP.	Repeated evidence (ashtray, burns to furniture, carpets etc.) of smoking whilst using or in close proximity (within 3m) to oxygen equipment. (Log as SISmok 073) Inform SHEQ & HCP.	Patient observed smoking whilst on oxygen, or burnt equipment. Minor burns requiring first aid at home or requiring professional intervention.	Patient received serious injury requiring hospitalisation.	Patient fatality due to smoking related fire.
Fire (not smoking-related)	Equipment placed in close proximity (within 3m) to ignition source, or any equipment contamination with oil/grease. OR Equipment recovered from non-oxygen related fire. Arrange CODE Z and investigate (Log as SISmok 074 Inform SHEQ & HCP.	Evidence of fire damage in the home or to equipment. Arrange CODE Z and investigate (Log as SISmok 074) Inform SHEQ & HCP.	Patient received burns/fire related injury Moderate injury requiring first aid or professional intervention.	Patient/other serious injury requiring hospitalisation.	Any fatality due to oxygen related fire

Annex C – Incident Data

Ref	CCG	Response Date	Response Type	No. of Incidents	No. of Fatalities	No. of Patients (2018)	Comments
1	NHS Ashford CCG	18/07/18	Regional	Refer to #213		128,026	Data collated regionally
2	NHS Bexley CCG	18/07/18	Regional	Refer to #213		247,806	Data collated regionally
3	NHS Brighton & Hove CCG	18/07/18	Regional	Refer to #213		287,724	Data collated regionally
4	NHS Bromley CCG	18/07/18	Regional	Refer to #213		334,860	Data collated regionally
5	NHS Canterbury and Coastal CCG	18/07/18	Regional	Refer to #213		206,304	Data collated regionally
6	NHS Coastal West Sussex CCG	18/07/18	Regional	Refer to #213		499,091	Data collated regionally
7	NHS Croydon CCG	18/07/18	Regional	Refer to #213		393,856	Data collated regionally
8	NHS Dartford, Gravesham and Swanley CCG	18/07/18	Regional	Refer to #213		263,708	Data collated regionally
9	NHS Eastbourne, Hailsham and Seaford CCG	18/07/18	Regional	Refer to #213		189,541	Data collated regionally
10	NHS Hastings & Rother CCG	18/07/18	Regional	Refer to #213		187,681	Data collated regionally
11	NHS High Weald Lewes Havens CCG	18/07/18	Regional	Refer to #213		174,580	Data collated regionally
12	NHS Horsham and Mid Sussex CCG	18/07/18	Regional	Refer to #213		231,834	Data collated regionally
13	NHS Medway CCG	18/07/18	Regional	Refer to #213		282,936	Data collated regionally
14	NHS South Kent Coast CCG	18/07/18	Regional	Refer to #213		208,089	Data collated regionally
15	NHS Sutton CCG	18/07/18	Regional	Refer to #213		209,962	Data collated regionally
16	NHS Swale CCG	18/07/18	Regional	Refer to #213		115,853	Data collated regionally
17	NHS West Kent CCG	18/07/18	Regional	Refer to #213		490,178	Data collated regionally
18	NHS Bedfordshire CCG	28/06/18	Data not held	-	-	449,371	-
19	NHS East and North Hertfordshire CCG	-	No Response	-	-	571,957	-
20	NHS Hardwick CCG	-	No Response	-	-	111,413	-
21	NHS Herts Valleys CCG	22/06/18	Data not held	-	-	606,397	-
22	NHS Milton Keynes CCG	-	No Response	-	-	279,840	-
23	NHS Luton CCG	-	No Response	-	-	221,517	-
24	NHS West London (K&C & QPP) CCG	20/07/18	Full Response	0	0	223,715	-
25	NHS Corby CCG	12/07/18	Regional	Refer to #214		69,071	Data collated regionally
26	NHS Coventry and Rugby CCG	12/07/18	Regional	Refer to #214		455,667	Data collated regionally
27	NHS Doncaster CCG	12/07/18	Regional	Refer to #214		306,271	Data collated regionally
28	NHS East Leicestershire and Rutland CCG	12/07/18	Regional	Refer to #214		328,505	Data collated regionally
29	NHS Erewash CCG	12/07/18	Regional	Refer to #214		97,556	Data collated regionally
30	NHS Leicester City CCG	12/07/18	Regional	Refer to #214		343,894	Data collated regionally
31	NHS Mansfield & Ashfield CCG	12/07/18	Regional	Refer to #214		197,759	Data collated regionally
32	NHS Nene CCG	12/07/18	Regional	Refer to #214		651,438	Data collated regionally
33	NHS Newark & Sherwood CCG	12/07/18	Regional	Refer to #214		119,942	Data collated regionally

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34	NHS North Derbyshire CCG	12/07/18	Regional	Refer to #214		277,230	Data collated regionally
35	NHS Nottingham City CCG	12/07/18	Regional	Refer to #214		318,620	Data collated regionally
36	NHS Nottingham North & East CCG	12/07/18	Regional	Refer to #214		151,349	Data collated regionally
37	NHS Nottingham West CCG	12/07/18	Regional	Refer to #214		115,270	Data collated regionally
38	NHS Rushcliffe CCG	12/07/18	Regional	Refer to #214		116,492	Data collated regionally
39	NHS South Warwickshire CCG	12/07/18	Regional	Refer to #214		266,849	Data collated regionally
40	NHS Southern Derbyshire CCG	12/07/18	Regional	Refer to #214		537,270	Data collated regionally
41	NHS Warwickshire North CCG	12/07/18	Regional	Refer to #214		193,147	Data collated regionally
42	NHS West Leicestershire CCG	12/07/18	Regional	Refer to #214		391,237	Data collated regionally
43	NHS Barking & Dagenham CCG	20/07/18	Full Response	5	0	214,273	-
44	NHS Cambridgeshire and Peterborough CCG	10/07/18	Full Response	2	0	896,555	-
45	NHS Mid Essex CCG	19/07/18	Incomplete Response	0	0	395,275	Does not include 2013. Data not included in analysis.
46	NHS North East Essex CCG	10/07/18	Incomplete Response	4	0	330,602	Does not include 2013 and 2014. Data not included in analysis.
47	NHS North Norfolk CCG	-	No Response	-	-	172,294	-
48	NHS South Norfolk CCG	-	No Response	-	-	248,835	-
49	NHS West Norfolk CCG	-	No Response	-	-	177,431	-
50	NHS West Suffolk CCG	11/07/18	Full Response	0	0	230,464	-
51	NHS Lincolnshire East CCG	12/07/18	Full Response	0	0	237,335	-
52	NHS Lincolnshire West CCG	-	No Response	-	-	235,308	-
53	NHS Basildon and Brentwood CCG	10/07/18	Full Response	0	0	260,284	-
54	NHS Castle Point, Rayleigh and Rochford CCG	23/07/18	Incomplete Response	<5	0	176,258	CCGs not willing to report precise number to avoid them being tracked (GDPR)
55	NHS Great Yarmouth & Waveney CCG	-	No Response	-	-	217,526	-
56	NHS Ipswich and East Suffolk CCG	11/07/18	Full Response	0	0	407,516	-
57	NHS Norwich CCG	-	No Response	-	-	202,199	-
58	NHS Redbridge CCG	-	No Response	-	-	316,787	-
59	NHS South Lincolnshire CCG	06/07/18	Full Response	0	0	148,395	-
60	NHS South West Lincolnshire CCG	06/07/18	Full Response	0	0	127,620	Data is not collated at CCG
61	NHS Southend CCG	23/07/18	Full Response	0	0	182,351	-
62	NHS Thanet CCG	06/07/18	Full Response	0	0	142,439	-
63	NHS Thurrock CCG	-	No Response	-	-	169,453	-
64	NHS West Essex CCG	18/07/18	Incomplete Response	0	0	308,121	Data provided for 2016 and 2017 only. Data not included in analysis.
65	NHS Barnet CCG	09/07/18	Full Response	0	0	400,022	-
66	NHS Hounslow CCG	20/07/18	Full Response	3	0	284,605	-
67	NHS Brent CCG	20/07/18	Full Response	1	0	331,076	-
68	NHS Camden CCG	09/07/18	Full Response	0	0	243,850	-
69	NHS Central London (Westminster) CCG	20/07/18	Full Response	1	0	173,796	-
70	NHS City and Hackney CCG	18/07/18	Full Response	0	0	282,330	-

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71	NHS Ealing CCG	20/07/18	Full Response	0	0	362,211	-
72	NHS Enfield CCG	09/07/18	Full Response	1	0	345,927	-
73	NHS Greenwich CCG	09/07/18	Data not held			278,502	Data is not collated at CCG
74	NHS Hammersmith and Fulham CCG	20/07/18	Full Response	2	0	181,873	-
75	NHS Haringey CCG		No Response			280,225	-
76	NHS Harrow CCG	20/07/18	Full Response	0	0	259,746	-
77	NHS Havering CCG	20/07/18	Full Response	3	0	255,317	-
78	NHS Hillingdon CCG	20/07/18	Full Response	1	0	309,286	-
79	NHS Islington CCG	31/07/18	Full Response	1	0	234,771	-
80	NHS Lambeth CCG	19/07/18	Full Response	0	0	332,099	-
81	NHS Lewisham CCG	23/07/18	Full Response	0	0	306,564	-
82	NHS Newham CCG	17/07/18	Full Response	0	0	346,150	-
83	NHS Southwark CCG	19/07/18	Full Response	0	0	319,134	-
84	NHS Tower Hamlets CCG	18/07/18	Incomplete Response	<5	0	300,996	CCGs not willing to report precise number to avoid them being tracked (GDPR)
85	NHS Waltham Forest CCG	09/07/18	Full Response	0	0	282,235	-
86	NHS Wandsworth CCG	23/07/18	Full Response	0	0	326,474	-
87	NHS Darlington CCG	-	No Response	-	-	106,098	-
88	NHS Durham Dales, Easington and Sedgefield CCG	-	No Response	-	-	279,798	-
89	NHS Gateshead CCG	-	No Response	-	-	203,287	-
90	NHS Hartlepool and Stockton-on-Tees CCG	-	No Response	-	-	292,953	-
91	NHS Newcastle Gateshead CCG	-	No Response	-	-	419,279	-
92	NHS Newcastle North and East CCG	-	No Response	-	-	143,764	-
93	NHS Newcastle West CCG	-	No Response	-	-	144,228	-
94	NHS North Durham CCG	-	No Response	-	-	246,574	-
95	NHS North Tyneside CCG	-	No Response	-	-	208,593	-
96	NHS Northumberland CCG	-	No Response	-	-	318,870	-
97	NHS South Tees CCG	22/06/18	Full Response	0	0	276,052	-
98	NHS South Tyneside CCG	-	No Response	-	-	150,577	-
99	NHS Sunderland CCG	-	No Response	-	-	277,008	-
100	NHS Blackburn with Darwen CCG	25/07/18	Regional	Refer to #216		149,151	Data collated regionally
101	NHS Blackpool CCG	25/07/18	Regional	Refer to #216		141,462	Data collated regionally
102	NHS Bolton CCG	25/07/18	Regional	Refer to #216		288,986	Data collated regionally
103	NHS Bury CCG	25/07/18	Regional	Refer to #216		192,009	Data collated regionally
104	NHS Central Manchester CCG	25/07/18	Regional	Refer to #216		189,801	Data collated regionally
105	NHS Chorley and South Ribble CCG	25/07/18	Regional	Refer to #216		174,437	Data collated regionally
106	NHS Cumbria CCG	25/07/18	Regional	Refer to #216		503,880	Data collated regionally
107	NHS East Lancashire CCG	25/07/18	Regional	Refer to #216		375,737	Data collated regionally
108	NHS Eastern Cheshire CCG	25/07/18	Regional	Refer to #216		200,575	Data collated regionally
109	NHS Fylde & Wyre CCG	25/07/18	Regional	Refer to #216		168,197	Data collated regionally

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110	NHS Greater Preston CCG	25/07/18	Regional	Refer to #216	204,362	Data collated regionally
111	NHS Halton CCG	25/07/18	Regional	Refer to #216	127,200	Data collated regionally
112	NHS Heywood, Middleton & Rochdale CCG	25/07/18	Regional	Refer to #216	214,766	Data collated regionally
113	NHS Knowsley CCG	25/07/18	Regional	Refer to #216	146,397	Data collated regionally
114	NHS Lancashire North CCG	25/07/18	Regional	Refer to #216	160,464	Data collated regionally
115	NHS Liverpool CCG	25/07/18	Regional	Refer to #216	473,870	Data collated regionally
116	NHS North Manchester CCG	25/07/18	Regional	Refer to #216	175,174	Data collated regionally
117	NHS Oldham CCG	25/07/18	Regional	Refer to #216	231,350	Data collated regionally
118	NHS Salford CCG	25/07/18	Regional	Refer to #216	252,259	Data collated regionally
119	NHS South Cheshire CCG	25/07/18	Regional	Refer to #216	180,309	Data collated regionally
120	NHS South Manchester CCG	25/07/18	Regional	Refer to #216	169,012	Data collated regionally
121	NHS South Sefton CCG	25/07/18	Regional	Refer to #216	159,384	Data collated regionally
122	NHS Southport and Formby CCG	25/07/18	Regional	Refer to #216	115,195	Data collated regionally
123	NHS St Helens CCG	25/07/18	Regional	Refer to #216	180,250	Data collated regionally
124	NHS Stockport CCG	25/07/18	Regional	Refer to #216	291,486	Data collated regionally
125	NHS Tameside and Glossop CCG	25/07/18	Regional	Refer to #216	261,887	Data collated regionally
126	NHS Trafford CCG	25/07/18	Regional	Refer to #216	237,876	Data collated regionally
127	NHS Vale Royal CCG	25/07/18	Regional	Refer to #216	103,258	Data collated regionally
128	NHS Warrington CCG	25/07/18	Regional	Refer to #216	212,873	Data collated regionally
129	NHS West Cheshire CCG	25/07/18	Regional	Refer to #216	231,596	Data collated regionally
130	NHS West Lancashire CCG	25/07/18	Regional	Refer to #216	111,266	Data collated regionally
131	NHS Wigan Borough CCG	25/07/18	Regional	Refer to #216	329,048	Data collated regionally
132	NHS Wirral CCG	25/07/18	Regional	Refer to #216	323,084	Data collated regionally
133	NHS Kingston CCG	18/07/18	Regional	Refer to #213	180,771	Data collated regionally
134	NHS Merton CCG	18/07/18	Regional	Refer to #213	218,673	Data collated regionally
135	NHS North & West Reading CCG	18/07/18	Regional	Refer to #213	103,734	Data collated regionally
136	NHS Richmond CCG	18/07/18	Regional	Refer to #213	204,131	Data collated regionally
137	NHS South Reading CCG	18/07/18	Regional	Refer to #213	110,015	Data collated regionally
138	NHS Wokingham CCG	18/07/18	Regional	Refer to #213	166,071	Data collated regionally
139	NHS Aylesbury Vale CCG	18/07/18	Regional	Refer to #213	208,883	Data collated regionally
140	NHS Oxfordshire CCG	18/07/18	Regional	Refer to #213	670,692	Data collated regionally
141	NHS Chiltern CCG	18/07/18	Regional	Refer to #213	328,321	Data collated regionally
217	NHS Berkshire West	18/07/18	Regional	Refer to #213	528,000	Data collated regionally
142	NHS Bracknell and Ascot CCG	18/07/18	Regional	Refer to #213	140,860	Data collated regionally
143	NHS Crawley CCG	18/07/18	Regional	Refer to #213	115,562	Data collated regionally
144	NHS East Surrey CCG	18/07/18	Regional	Refer to #213	187,339	Data collated regionally
145	NHS Fareham and Gosport CCG	18/07/18	Regional	Refer to #213	202,514	Data collated regionally
146	NHS Guildford and Waverley CCG	18/07/18	Regional	Refer to #213	216,987	Data collated regionally
147	NHS Isle of Wight CCG	18/07/18	Regional	Refer to #213	141,652	Data collated regionally

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148	NHS Newbury and District CCG	18/07/18	Regional	Refer to #213		108,894	Data collated regionally
149	NHS North East Hampshire and Farnham CCG	18/07/18	Regional	Refer to #213		212,666	Data collated regionally
150	NHS North Hampshire CCG	18/07/18	Regional	Refer to #213		229,329	Data collated regionally
151	NHS North West Surrey CCG	18/07/18	Regional	Refer to #213		354,085	Data collated regionally
152	NHS Portsmouth CCG	18/07/18	Regional	Refer to #213		215,787	Data collated regionally
153	NHS Slough CCG	18/07/18	Regional	Refer to #213		153,054	Data collated regionally
154	NHS South Eastern Hampshire CCG	18/07/18	Regional	Refer to #213		214,740	Data collated regionally
155	NHS Southampton CityCCG	18/07/18	Regional	Refer to #213		249,874	Data collated regionally
156	NHS Surrey Downs CCG	18/07/18	Regional	Refer to #213		297,313	Data collated regionally
157	NHS Surrey Heath CCG	18/07/18	Regional	Refer to #213		96,815	Data collated regionally
158	NHS West Hampshire CCG	18/07/18	Regional	Refer to #213		566,244	Data collated regionally
159	NHS Windsor, Ascot and Maidenhead CCG	18/07/18	Regional	Refer to #213		145,820	Data collated regionally
160	NHS Swindon CCG	06/07/18	Full Response	0	0	232,910	-
161	NHS Wiltshire CCG	-	No Response	-	-	492,829	-
162	NHS Bath and North East Somerset CCG	-	No Response	-	-	182,896	-
163	NHS Bristol CCG	-	No Response	-	-	459,153	-
164	NHS Dorset CCG	02/07/18	Full Response	0	0	775,983	-
165	NHS Gloucestershire CCG	-	No Response	-	-	626,656	-
166	NHS Kernow CCG	22/06/18	Incomplete Response	<5	0	566,880	-
167	NHS North, East, West Devon CCG	16/07/18	Full Response	1	0	895,625	CCGs not willing to report precise number to avoid them being tracked (GDPR)
168	NHS Somerset CCG	-	No Response	-	-	553,869	-
169	NHS North Somerset CCG	-	No Response	-	-	216,897	-
170	NHS South Gloucestershire CCG	-	No Response	-	-	280,120	-
171	NHS South Devon and Torbay CCG	02/07/18	Full Response	0	0	279,926	-
172	NHS Cannock Chase CCG	-	No Response	-	-	135,065	-
173	NHS East Staffordshire CCG	-	No Response	-	-	128,753	-
174	NHS North Staffordshire CCG	-	No Response	-	-	215,531	-
175	NHS Stoke on Trent CCG	-	No Response	-	-	262,819	-
176	NHS Birmingham CrossCity CCG	-	No Response	-	-	754,203	-
177	NHS Birmingham South and Central CCG	-	No Response	-	-	208,476	-
178	NHS Dudley CCG	17/08/18	Full Response	1	0	318,238	-
179	NHS Herefordshire CCG	-	No Response	-	-	190,785	-
180	NHS Redditch and Bromsgrove CCG	-	No Response	-	-	182,846	-
181	NHS Sandwell and West Birmingham CCG	11/07/18	Full Response	1	0	500,183	-
182	NHS Shropshire CCG	-	No Response	-	-	315,488	-
183	NHS Solihull CCG	-	No Response	-	-	213,706	-
184	NHS South East Staffs and Seisdon and Peninsular CCG	-	No Response	-	-	228,087	-
185	NHS South Worcestershire CCG	-	No Response	-	-	299,170	-
186	NHS Stafford and Surrounds CCG	-	No Response	-	-	154,462	-
187	NHS Telford & Wrekin CCG	-	No Response	-	-	171,711	-
188	NHS Walsall CCG	-	No Response	-	-	279,029	-

Annex C – Incident Data

189	NHS Wolverhampton CCG	-	No Response	0	0	255,593	-
190	NHS Wyre Forest CCG	-	No Response	-	-	98,984	-
191	NHS North East Lincolnshire CCG	19/07/18	Regional	Refer to #215		160,603	Data collated regionally
192	NHS Airedale, Wharfedale and Craven CCG	20/07/18	Regional	Refer to #215		163,385	Data collated regionally
193	NHS Barnsley CCG	20/07/18	Regional	Refer to #215		242,411	Data collated regionally
194	NHS Bassetlaw CCG	20/07/18	Regional	Refer to #215		115,663	Data collated regionally
195	NHS Bradford City CCG	20/07/18	Regional	Refer to #215		84,936	Data collated regionally
196	NHS Bradford Districts CCG (Bradford Districts and Craven)	20/07/18	Regional	Refer to #215		346,412	Data collated regionally
197	NHS Calderdale CCG	20/07/18	Regional	Refer to #215		213,161	Data collated regionally
198	NHS East Riding of Yorkshire CCG	20/07/18	Regional	Refer to #215		323,122	Data collated regionally
199	NHS Greater Huddersfield CCG	20/07/18	Regional	Refer to #215		248,359	Data collated regionally
200	NHS Hambleton, Richmondshire and Whitby CCG	20/07/18	Regional	Refer to #215		154,616	Data collated regionally
201	NHS Harrogate and Rural District CCG	20/07/18	Regional	Refer to #215		161,172	Data collated regionally
202	NHS Hull CCG	20/07/18	Regional	Refer to #215		260,710	Data collated regionally
203	NHS Leeds North CCG	20/07/18	Regional	Refer to #215		208,727	Data collated regionally
204	NHS Leeds South and East CCG	20/07/18	Regional	Refer to #215		248,950	Data collated regionally
205	NHS Leeds West CCG	20/07/18	Regional	Refer to #215		333,804	Data collated regionally
206	NHS North Kirklees CCG	20/07/18	Regional	Refer to #215		194,153	Data collated regionally
207	NHS North Lincolnshire CCG	20/07/18	Regional	Refer to #215		173,139	Data collated regionally
208	NHS Rotherham CCG	20/07/18	Regional	Refer to #215		263,646	Data collated regionally
209	NHS Scarborough and Ryedale CCG	20/07/18	Regional	Refer to #215		110,801	Data collated regionally
210	NHS Sheffield CCG	20/07/18	Regional	Refer to #215		576,547	Data collated regionally
211	NHS Vale of York CCG	20/07/18	Regional	Refer to #215		359,546	Data collated regionally
212	NHS Wakefield CCG	20/07/18	Regional	Refer to #215		337,465	Data collated regionally
213	South East region and South Central region	18/07/18	Regional	5	0	-	-
214	East Midlands region	12/07/18	Regional	4	0	-	-
215	Yorkshire and Humberside region	20/07/18	Regional	14	1	-	-
216	North West region	25/07/18	Regional	17	0	-	-

	Incidents	Fatalities
Regional	40	1
Full Response	23	-
Data not held	-	-
No Response	-	-
Incomplete Response	4	-
Grand Total	67	1

Annex D – CCG Response Summary

	CCG Count	CCG %
Regional	122	56%
Full Response	36	17%
No Response	50	23%
Data not held	3	1%
Incomplete Response	6	3%
Grand Total	217	100%

	Patient Population (2018)	Patient Population % (2018)
Regional	28,516,355	50%
Full Response	11,651,277	21%
No Response	13,178,997	23%
Data not held	1,334,269	2%
Incomplete Response	2,078,132	4%
Grand Total	56,759,030	100%



Further Information

If you would like to know more about oxygen firebreaks or require clarification on any point in this White Paper, then please contact info@bprmedical.com

BPR Medical

BPR Medical is an international leader in the design and manufacturing of medical gas control products. Based in Nottinghamshire, UK, it continues to provide innovative products for acute hospital, emergency and home care applications. The company has won many awards including a Queen's Award for Innovation in 2012 for its Firesafe™ product range and is currently the world's leading supplier of oxygen firebreaks in medical applications. The team specialises in developing successful long-term partnerships with some of the leading medical gas companies and currently exports to 50 different countries. BPR has developed an enviable reputation by delivering on quality at all levels in the business in line with its Zero Defects goal.

Disclaimer

BPR Medical makes no claim as to the legal or regulatory accuracy of the statements in this White Paper and the reader should not rely on anything contained within it when making commercial or other decisions in relation to its operational policies. BPR Medical strongly recommends that independent legal and regulatory advice is obtained before taking any action.

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