

SUPPLEMENT SECTION

SUPPLEMENT TABLE S1

Supplement Table S1. Summary of online questionnaire for data collection for individual outbreaks reported to Public Health England (PHE) during the first half of the autumn term in England

Minimum Data Set (MDS) form

1. Name of school
2. Postcode
3. School type

Overview

4. Do you have a linked nursery
5. Total number of students in nursery
6. Total number of teaching staff in nursery/kindergarten (e.g teachers, teaching assistants and special needs teachers, full time and part time)
7. Total number of non-teaching staff in nursery/kindergarten (e.g. kitchen staff, cleaning staff, admin)
8. Total number of students by year group (Primary)
9. Total number of students by year group (Secondary)
10. Total number of teaching staff (Primary) (e.g teachers, teaching assistants and special needs teachers, full time and part time)
11. Total number of teaching staff (Secondary) (e.g teachers, teaching assistants and special needs teachers, full time and part time)
12. Total number of non-teaching staff (Primary) (e.g. kitchen staff, cleaning staff, admin)
13. Total number of non-teaching staff (Secondary) (e.g. kitchen staff, cleaning staff, admin)
14. Further comments

Total confirmed cases

15. Total number of student confirmed cases in nursery/kindergarten
16. Total number of student confirmed cases by year group (Primary)

17. Total number of student confirmed cases by year group (Secondary)
18. Total number of teaching staff confirmed cases in nursery/kindergarten (e.g teachers, teaching assistants and special needs teachers, full time and part time)
19. Total number of teaching staff confirmed cases (Primary) (e.g teachers, teaching assistants and special needs teachers, full time and part time)
20. Total number of teaching staff confirmed cases (Secondary) (e.g teachers, teaching assistants and special needs teachers, full time and part time)
21. Total number of non-teaching staff confirmed cases in nursery/kindergarten (e.g. kitchen staff, cleaning staff, admin)
22. Total number of non-teaching staff confirmed cases (Primary) (e.g. kitchen staff, cleaning staff, admin)
23. Total number of non-teaching staff confirmed cases (Secondary) (e.g. kitchen staff, cleaning staff, admin)
24. Number of hospitalised cases (staff and students)
25. Number of deaths (staff and students)
26. Was this setting closed due to COVID-19?
27. For how many days was the setting closed?
28. Why was the setting closed? (i.e deep cleaning, to break transmission etc.)
29. Further Comments

Case 1 (INDEX CASE)

30. First name
31. Last name
32. Date of Birth (dd/mm/yyyy)
33. Postcode of residence during term time
34. Sex
35. Date of symptom onset, if symptomatic (dd/mm/yyyy)
36. Date of test (dd/mm/yyyy)
37. Was the index case staff, student or other
38. Class year (and bubble name if appropriate) of the case (i.e. year 6, yellow bubble)
39. If other, please specify
40. Why was this index case tested
41. If other, please specify
42. How many students were sent home as a result
43. How many members of staff were sent home as a result

44. Did anyone have symptoms after being sent home
45. How many students had symptoms after being sent home
46. How many members of staff had symptoms after being sent home
47. Did anyone test positive
48. How many students tested positive for COVID-19 after being sent home?
49. How many members of staff tested positive for COVID-19 after being sent home?
50. Further comments

Case 2

51. First name
52. Last name
53. Postcode of residence during term time
54. Date of Birth (dd/mm/yyyy)
55. Sex
56. Date of symptom onset, if symptomatic (dd/mm/yyyy)
57. Date of test (dd/mm/yyyy)
58. Was the case staff, student or other
59. Class year (and bubble name if appropriate) of the case (i.e. year 6, yellow bubble)
60. If other, please specify
61. Why was this case tested
62. If other, please specify
63. Is this case is linked to the previous case?
64. How many students were sent home as a result of this case
65. How many members of staff were sent home as a result of this case
66. Did anyone have COVID-19 symptoms after being sent home
67. How many students had COVID-19 symptoms after being sent home
68. How many members of staff had COVID-19 symptoms after being sent home
69. Did anyone test positive for COVID-19 after being sent home?
70. How many students tested positive for COVID-19 after being sent home?
71. How many members of staff tested positive for COVID-19 after being sent home?
72. Further comments

Case 3

73. First name
74. Last name

75. Postcode of residence
76. Date of Birth (dd/mm/yyyy)
77. Sex
78. Date of symptom onset, if symptomatic (dd/mm/yyyy)
79. Date of test (dd/mm/yyyy)
80. Was the case staff, student or other
81. Class year (and bubble name if appropriate) of the case (i.e. year 6, yellow bubble)
82. If other, please specify
83. Why was this case tested
84. If other, please specify
85. Is this case is linked to any previous case?
86. Which case was this linked to
87. How many students were sent home as a result of this case
88. How many members of staff were sent home as a result of this case
89. Did anyone have COVID-19 symptoms after being sent home
90. How many students had COVID-19 symptoms after being sent home
91. How many members of staff had COVID-19 symptoms after being sent home
92. Did anyone test positive for COVID-19 after being sent home?
93. How many students tested positive for COVID-19 after being sent home?
94. How many members of staff tested positive for COVID-19 after being sent home?
95. Further comments

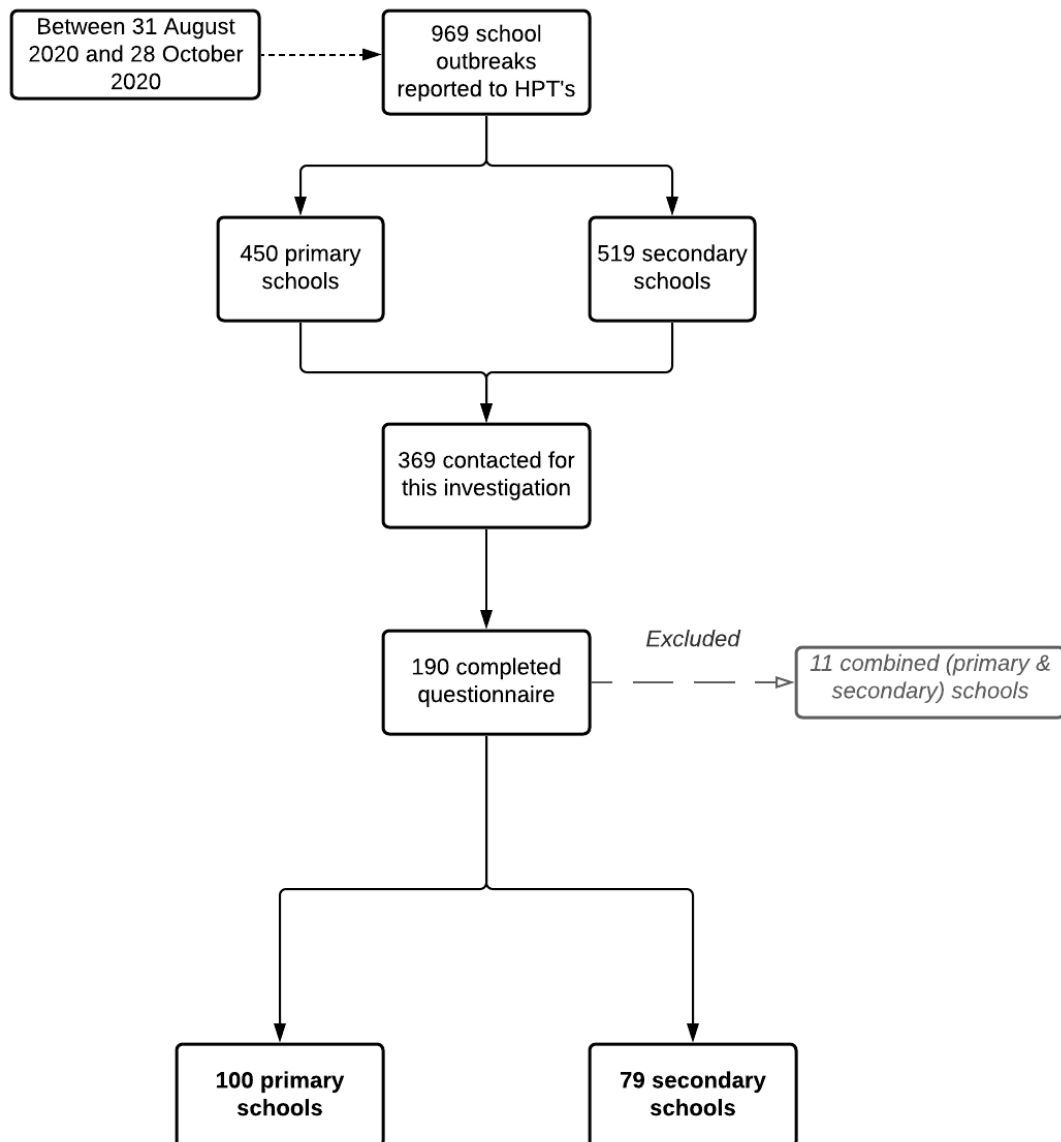
Case 4

96. First name
97. Last name
98. Postcode of residence during term time
99. Date of Birth (dd/mm/yyyy)
100. Sex
101. Date of symptom onset (dd/mm/yyyy)
102. Date of test (dd/mm/yyyy)
103. Was the case staff, student or other
104. Class year (and bubble name if appropriate) of the case (i.e. year 6, yellow bubble)
105. If other, please specify
106. Why was this case tested
107. If other, please specify

108. Is this case is linked to any previous case?
109. Which case was this linked to
110. How many students were sent home as a result of this case
111. How many members of staff were sent home as a result of this case
112. Did anyone have COVID-19 symptoms after being sent home
113. How many students had COVID-19 symptoms after being sent home
114. How many members of staff had COVID-19 symptoms after being sent home
115. Did anyone test positive
116. How many students tested positive for COVID-19 after being sent home?
117. How many members of staff tested positive for COVID-19 after being sent home?
118. Further comments

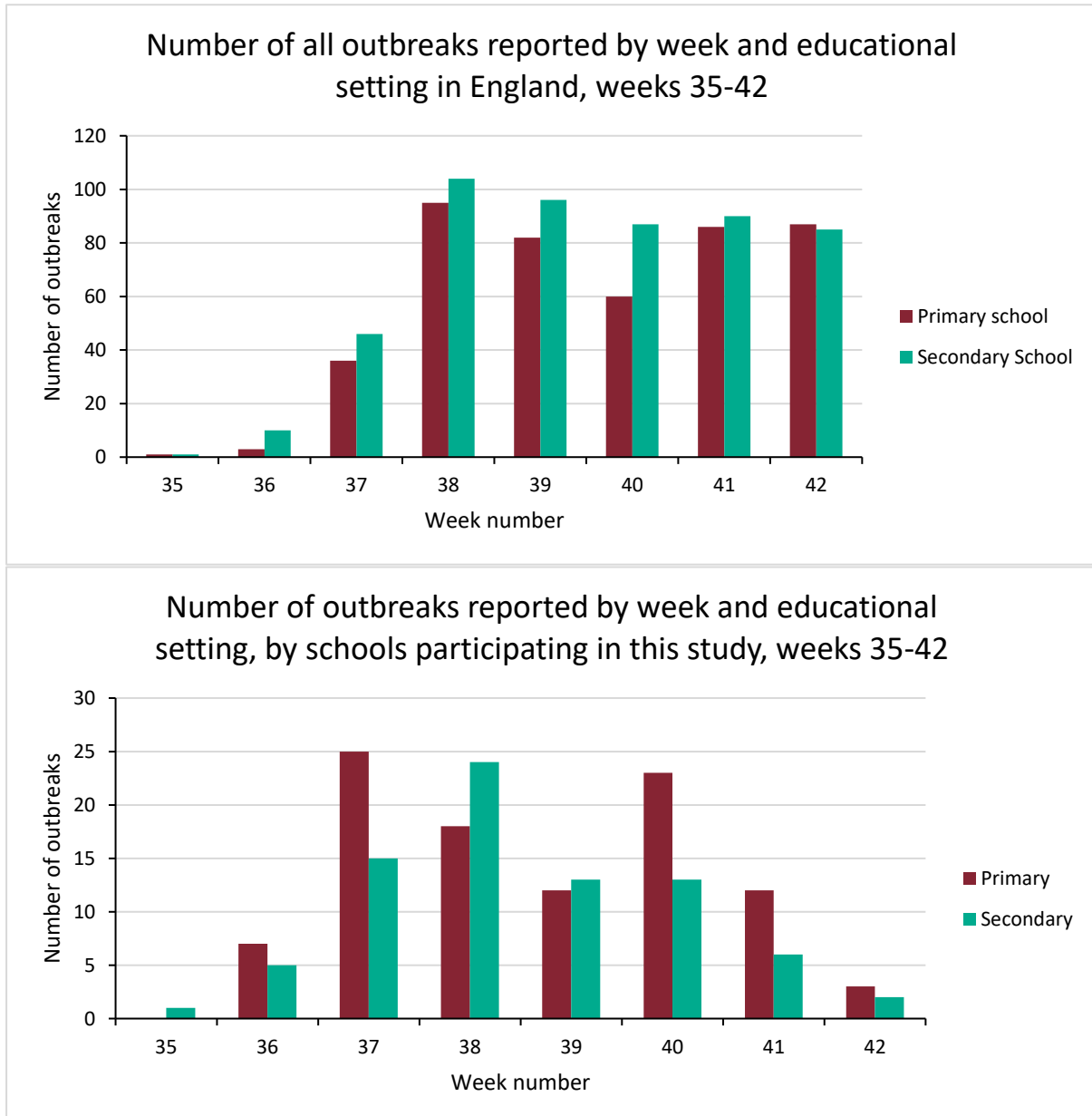
SUPPLEMENT Figure S2

Supplement Figure S2. Flow chart for outbreaks reported and followed by Public Health England (PHE) during the first half of the autumn term in England



SUPPLEMENT Figure S3

Supplement Figure S3. (A) Weekly reports of COVID-19 outbreaks in primary and secondary schools during the first half of the autumn term (31 August to 18 October 2020) in England; (B) Schools recruited in the outbreak investigation by Public Health England (PHE).



Supplement TABLE S4

Supplement Table S4. Reason for testing (where reported) in the first four cases in each outbreak reported to Public Health England during the first half of the autumn term (31 August to 18 October 2020) in England

Reason for testing	Number of cases									
	Case 1 (n=166)		Case 2 (n=166)		Case 3 (n=158)		Case 4 (n=145)		All cases (n=635)	
	n	%	n	%	n	%	n	%	n	%
Symptomatic	118	71%	114	69%	109	69%	92	63%	433	68%
Contact of community case	5	3%	1	1%	3	2%	6	4%	15	2%
Contact of household case	34	21%	28	17%	21	13%	29	20%	112	18%
Contact of a school case	0	0%	13	8%	12	8%	11	8%	36	6%
Other	9	5%	10	6%	13	8%	7	5%	39	6%

Supplement Figure S5

Supplement Figure S5. COVID-19 attack rate 19 by academic year in primary and secondary school students reporting an outbreak to Public Health England (PHE) during the first half of the autumn term (31 August to 18 October 2020) in England. The dotted line represents the line of best fit using linear trends for attack rates in students across the academic years

