**SUPPLEMENTARY APPENDIX**

Comparison of distribution of exposures among staff controls and panel controls

| **Exposure** | **Staff controls** | **Panel controls** | **Odds ratio** **(95% CI)** | **p value** |
| --- | --- | --- | --- | --- |
| Total | Exposed | % | Total | Exposed | % |
| **Demographics** |  |  |  |  |  |  |  |  |
| White | 82 | 72 | 87.8 | 121 | 115 | 95.0 | 0.4 (0.2-1.5) | 0.060 |
| Female | 82 | 47 | 57.3 | 123 | 63 | 51.2 | 1.3 (0.7-2.3) | 0.391 |
| Age | continuous variable | 1.0 (0.96-1.00) | 0.210 |
| Investigating region | multi-level variable | 0.071 |
|  |  |  |  |  |  |  |  |  |
| **Symptoms and medication** |  |  |  |  |  |  |  |  |
| Headache | 82 | 10 | 12.2 | 123 | 49 | 39.8 | 0.2 (0.1-0.5) | <0.001 |
| Proton pump inhibitors | 81 | 4 | 4.9 | 123 | 21 | 17.1 | 0.3 (0.1-0.8) | 0.010 |
| Nausea | 82 | 0 | 0.0 | 123 | 4 | 3.3 | 0.0 (0.0-1.4) | 0.099 |
| Abdominal pain | 82 | 1 | 1.2 | 123 | 6 | 4.9 | 0.2 (0.0-2.1) | 0.158 |
| Diarrhoea | 82 | 1 | 1.2 | 123 | 5 | 4.1 | 0.3 (0.0-2.7) | 0.236 |
| Vomiting | 82 | 2 | 2.4 | 123 | 1 | 0.8 | 3.1 (0.2-181.4) | 0.342 |
| Fever | 82 | 2 | 2.4 | 123 | 6 | 4.9 | 0.5 (0.1-2.8) | 0.377 |
| Other symptoms | 81 | 8 | 9.9 | 123 | 8 | 6.5 | 1.6 (0.5-5.0) | 0.381 |
| Bloody stool | 82 | 0 | 0.0 | 123 | 0 | 0.0 | n.e. | . |
|  |  |  |  |  |  |  |  |  |
| **Travel and recreation** |  |  |  |  |  |  |  |  |
| Commercial bird food\* | 19 | 14 | 73.7 | 105 | 12 | 11.4 | 21.7 (5.9-87.7) | <0.001 |
| Other outdoor area | 81 | 43 | 53.1 | 123 | 30 | 24.4 | 3.5 (1.8-6.7) | <0.001 |
| Travel in UK | 82 | 22 | 26.8 | 123 | 8 | 6.5 | 5.3 (2.1-14.4) | <0.001 |
| Walks | 81 | 60 | 74.1 | 123 | 59 | 48.0 | 3.1 (1.6-6.0) | <0.001 |
| Any outdoor activity | 82 | 60 | 73.2 | 123 | 64 | 52.0 | 2.5 (1.3-4.8) | 0.002 |
| Commercial bird food if feed birds\* | 19 | 14 | 73.7 | 22 | 10 | 45.5 | 3.4 (0.8-15.9) | 0.067 |
| Outdoor centre | 79 | 6 | 7.6 | 123 | 4 | 3.3 | 2.4 (0.6-12.1) | 0.165 |
| Wildlife reserve | 79 | 6 | 7.6 | 123 | 5 | 4.1 | 1.9 (0.5-8.3) | 0.281 |
| Bird feeder | 81 | 32 | 39.5 | 123 | 40 | 32.5 | 1.4 (0.7-2.5) | 0.307 |
| Travel abroad | 82 | 2 | 2.4 | 123 | 6 | 4.9 | 0.5 (0.1-2.8) | 0.377 |
| Feed wild birds | 81 | 20 | 24.7 | 123 | 24 | 19.5 | 1.4 (0.7-2.8) | 0.379 |
| Local park | 79 | 24 | 30.4 | 123 | 31 | 25.2 | 1.3 (0.7-2.5) | 0.420 |
|  |  |  |  |  |  |  |  |  |
| **Chicken items** |  |  |  |  |  |  |  |  |
| Buy raw chicken | 82 | 62 | 75.6 | 123 | 58 | 47.2 | 3.5 (1.8-6.8) | <0.001 |
| Whole chicken or chicken pieces | 82 | 40 | 48.8 | 123 | 35 | 28.5 | 2.4 (1.3-4.5) | 0.003 |
| Sandwiches | 82 | 7 | 8.5 | 123 | 29 | 23.6 | 0.3 (0.1-0.8) | 0.006 |
| Pasties | 82 | 1 | 1.2 | 123 | 11 | 8.9 | 0.1 (0.0-0.9) | 0.021 |
| Pies | 82 | 4 | 4.9 | 123 | 18 | 14.6 | 0.3 (0.1-0.96) | 0.027 |
| Nuggets | 82 | 1 | 1.2 | 123 | 10 | 8.1 | 0.1 (0.0-1.02) | 0.031 |
| Any other chicken product | 82 | 32 | 39.0 | 123 | 63 | 51.2 | 0.6 (0.3-1.1) | 0.086 |
| Any chicken | 82 | 71 | 86.6 | 123 | 95 | 77.2 | 1.9 (0.9-4.5) | 0.095 |
| Non supermarket chicken | 61 | 9 | 14.8 | 58 | 5 | 8.6 | 1.8 (0.5-7.4) | 0.299 |
| Chicken in a restaurant | 82 | 7 | 8.5 | 123 | 16 | 13.0 | 0.6 (0.2-1.7) | 0.320 |
| Ready meals | 82 | 7 | 8.5 | 123 | 16 | 13.0 | 0.6 (0.2-1.7) | 0.320 |
| Handle raw chicken | 82 | 19 | 23.2 | 123 | 24 | 19.5 | 1.2 (0.6-2.6) | 0.528 |
| Cooked cold chicken | 81 | 8 | 9.9 | 123 | 15 | 12.2 | 0.8 (0.3-2.1) | 0.608 |
| Chicken in a fast food restaurant | 82 | 9 | 11.0 | 123 | 14 | 11.4 | 1.0 (0.4-2.5) | 0.928 |
| Other products | 82 | 8 | 9.8 | 123 | 12 | 9.8 | 1.0 (0.3-2.8) | 1.000 |
| Kievs | 82 | 4 | 4.9 | 123 | 6 | 4.9 | 1.0 (0.2-4.4) | 1.000 |
|  |  |  |  |  |  |  |  |  |
| **Non-chicken food items** |  |  |  |  |  |  |  |  |
| Pumpkins | 82 | 31 | 37.8 | 123 | 12 | 9.8 | 5.6 (2.5-12.9) | <0.001 |
| Salad garnishes | 78 | 12 | 15.4 | 123 | 2 | 1.6 | 11.0 (2.3-102.0) | <0.001 |
| Side dishes | 78 | 15 | 19.2 | 123 | 5 | 4.1 | 5.6 (1.8-20.5) | <0.001 |
| Herbs/spices | 82 | 17 | 20.7 | 123 | 7 | 5.7 | 4.3 (1.6-12.9) | 0.001 |
| Apples | 82 | 52 | 63.4 | 123 | 50 | 40.7 | 2.5 (1.4-4.7) | 0.001 |
| Dips | 78 | 8 | 10.3 | 123 | 1 | 0.8 | 13.9 (1.8-623.0) | 0.002 |
| Turmeric | 81 | 11 | 13.6 | 123 | 4 | 3.3 | 4.7 (1.3-20.7) | 0.006 |
| Cumin seeds | 81 | 8 | 9.9 | 123 | 2 | 1.6 | 6.6 (1.3-65.2) | 0.008 |
| Mint | 81 | 7 | 8.6 | 123 | 2 | 1.6 | 5.7 (1.0-57.4) | 0.017 |
| Coriander | 81 | 6 | 7.4 | 123 | 2 | 1.6 | 4.8 (0.8-49.9) | 0.037 |
| Pomegranate | 82 | 1 | 1.2 | 123 | 9 | 7.3 | 0.2 (0.00-1.2) | 0.047 |
| Oranges | 82 | 42 | 51.2 | 123 | 48 | 39.0 | 1.6 (0.9-3.0) | 0.085 |
| Bananas | 82 | 51 | 62.2 | 123 | 62 | 50.4 | 1.6 (0.9-3.0) | 0.096 |
| Sloes | 81 | 1 | 1.2 | 123 | 0 | 0.0 | ∞ (n.e.) | 0.217 |
| Damsons | 82 | 1 | 1.2 | 123 | 0 | 0.0 | ∞ (n.e.) | 0.220 |
| Tomatoes | 82 | 56 | 68.3 | 123 | 74 | 60.2 | 1.4 (0.8-2.7) | 0.236 |
| Globe/jerusalem artichoke | 82 | 0 | 0.0 | 123 | 2 | 1.6 | 0.0 (0.00-2.9) | 0.246 |
| Prepare food | 82 | 55 | 67.1 | 123 | 91 | 74.0 | 0.7 (0.4-1.4) | 0.284 |
| Grapes | 82 | 36 | 43.9 | 123 | 45 | 36.6 | 1.4 (0.7-2.5) | 0.294 |
| Raita | 77 | 2 | 2.6 | 123 | 1 | 0.8 | 3.3 (0.2-193.5) | 0.312 |
| Blackberries | 82 | 2 | 2.4 | 123 | 1 | 0.8 | 3.1 (0.2-181.3) | 0.342 |
| Kale | 82 | 2 | 2.4 | 123 | 1 | 0.8 | 3.1 (0.2-181.3) | 0.342 |
| Cranberries | 82 | 2 | 2.4 | 123 | 6 | 4.9 | 0.5 (0.1-2.8) | 0.377 |
| Kumquats | 82 | 0 | 0.0 | 123 | 1 | 0.8 | 0.0 (n.e.) | 0.413 |
| Kohlrabi | 82 | 0 | 0.0 | 123 | 1 | 0.8 | 0.0 (n.e.) | 0.413 |
| Indian sweets | 82 | 0 | 0.0 | 123 | 1 | 0.8 | 0.0 (n.e.) | 0.413 |
| Quince | 82 | 0 | 0.0 | 123 | 1 | 0.8 | 0.0 (n.e.) | 0.413 |
| Curry leaves | 82 | 3 | 3.7 | 123 | 3 | 2.4 | 1.5 (0.2-11.6) | 0.612 |
| Shallots | 82 | 6 | 7.3 | 123 | 7 | 5.7 | 1.3 (0.4-4.7) | 0.640 |
| Chutneys | 78 | 2 | 2.6 | 123 | 2 | 1.6 | 1.6 (0.1-22.3) | 0.643 |
| Indian pickles | 78 | 2 | 2.6 | 123 | 2 | 1.6 | 1.6 (0.1-22.3) | 0.643 |
| Fennel | 82 | 2 | 2.4 | 123 | 2 | 1.6 | 1.5 (0.1-21.2) | 0.680 |
| Persimmon | 82 | 2 | 2.4 | 123 | 4 | 3.3 | 0.7 (0.1-5.3) | 0.735 |
| Celeriac | 82 | 1 | 1.2 | 123 | 1 | 0.8 | 1.5 (0.0-119.1) | 0.772 |
| Chestnuts | 82 | 4 | 4.9 | 123 | 5 | 4.1 | 1.2 (0.2-5.8) | 0.781 |
| Figs | 82 | 2 | 2.4 | 123 | 3 | 2.4 | 1.0 (0.1-8.3) | 1.000 |
| Tahini | 82 | 0 | 0.0 | 123 | 0 | 0.0 | n.e. | . |
|  |  |  |  |  |  |  |  |  |
| **Location of chicken purchase**  |  |  |  |  |  |  |  |  |
| Supermarket chain G | 81 | 18 | 22.2 | 123 | 13 | 10.6 | 2.4 (1.04-5.7) | 0.023 |
| Supermarket chain F | 81 | 17 | 21.0 | 123 | 12 | 9.8 | 2.5 (1.03-6.0) | 0.025 |
| Supermarket chain H | 81 | 3 | 3.7 | 123 | 0 | 0.0 |  ∞ (1.2-∞) | 0.032 |
| Market stall | 82 | 2 | 2.4 | 123 | 0 | 0.0 |  ∞ (0.8-∞) | 0.082 |
| Supermarket chain D | 82 | 6 | 7.3 | 123 | 3 | 2.4 | 3.2 (0.7-20.0) | 0.095 |
| Local butcher | 82 | 4 | 4.9 | 123 | 2 | 1.6 | 3.1 (0.4-34.9) | 0.176 |
| Asian Turkish | 82 | 1 | 1.2 | 123 | 0 | 0.0 |  ∞ (n.e.) | 0.220 |
| Farmers market | 82 | 1 | 1.2 | 123 | 0 | 0.0 |  ∞ (n.e.) | 0.220 |
| Corner shop | 81 | 0 | 0.0 | 123 | 2 | 1.6 | 0.0 (0.0-2.9) | 0.249 |
| Supermarket chain E | 81 | 5 | 6.2 | 123 | 4 | 3.3 | 2.0 (0.4-10.2) | 0.320 |
| Supermarket chain A | 81 | 2 | 2.5 | 123 | 1 | 0.8 | 3.1 (0.2-183.6) | 0.336 |
| Supermarket chain B | 82 | 15 | 18.3 | 123 | 20 | 16.3 | 1.2 (0.5-2.6) | 0.705 |
| Supermarket chain A | 81 | 5 | 6.2 | 123 | 9 | 7.3 | 0.8 (0.2-2.9) | 0.752 |
| Cash carry wholesale | 82 | 1 | 1.2 | 123 | 1 | 0.8 | 1.5 (0.0-119.1) | 0.772 |
| Supermarket chain C | 81 | 4 | 4.9 | 123 | 7 | 5.7 | 0.9 (0.2-3.5) | 0.816 |
| Other supermarket | 81 | 2 | 2.5 | 123 | 3 | 2.4 | 1.0 (0.1-9.0) | 0.989 |
| Other shop | 82 | 0 | 0.0 | 123 | 0 | 0.0 |  n.e. | . |
| Chinese grocer | 82 | 0 | 0.0 | 123 | 0 | 0.0 |  n.e. | . |
|  |  |  |  |  |  |  |  |  |
| **Eating out venues** |  |  |  |  |  |  |  |  |
| Sandwich bar | 82 | 14 | 17.1 | 123 | 3 | 2.4 | 8.2 (2.2-45.8) | <0.001 |
| Other eat out | 81 | 13 | 16.1 | 123 | 3 | 2.4 | 7.6 (2.0-42.9) | <0.001 |
| Fast food | 82 | 31 | 37.8 | 123 | 22 | 17.9 | 2.8 (1.4-5.6) | 0.001 |
| Any eating out | 82 | 41 | 50.0 | 123 | 39 | 31.7 | 2.2 (1.2-4.0) | 0.009 |
| British | 82 | 11 | 13.4 | 123 | 5 | 4.1 | 3.7 (1.1-13.9) | 0.014 |
| Chinese | 82 | 2 | 2.4 | 123 | 12 | 9.8 | 0.2 (0.0-1.1) | 0.042 |
| Thai | 82 | 1 | 1.2 | 123 | 0 | 0.0 |  ∞ (n.e.) | 0.220 |
| Cafe | 82 | 5 | 6.1 | 123 | 4 | 3.3 | 1.9 (0.4-10.0) | 0.330 |
| Italian | 82 | 3 | 3.7 | 123 | 2 | 1.6 | 2.3 (0.3-28.0) | 0.355 |
| Pizzeria | 82 | 2 | 2.4 | 123 | 5 | 4.1 | 0.6 (0.1-3.7) | 0.530 |
| Burger bar | 82 | 2 | 2.4 | 123 | 5 | 4.1 | 0.6 (0.1-3.7) | 0.530 |
| Kebab house | 82 | 2 | 2.4 | 123 | 5 | 4.1 | 0.6 (0.1-3.7) | 0.530 |
| Restaurant | 82 | 18 | 22.0 | 123 | 24 | 19.5 | 1.2 (0.6-2.4) | 0.672 |
| Indian | 82 | 2 | 2.4 | 123 | 4 | 3.3 | 0.7 (0.1-5.3) | 0.735 |
| Spanish | 82 | 1 | 1.2 | 123 | 1 | 0.8 | 1.5 (0.0-119.1) | 0.772 |
| Other restaurant | 82 | 1 | 1.2 | 123 | 2 | 1.6 | 0.7 (0.0-14.6) | 0.812 |
| Fried chicken | 82 | 2 | 2.4 | 123 | 3 | 2.4 | 1.0 (0.1-8.9) | 1.000 |
| Mexican | 82 | 0 | 0.0 | 123 | 0 | 0.0 |  n.e. | . |
| Greek | 82 | 0 | 0.0 | 123 | 0 | 0.0 |  n.e. | . |
|  |  |  |  |  |  |  |  |  |

n.e., Not estimable.

\* In the panel control web-survey the question on commercial bird food was not conditional on feeding birds.