

(4 points)

[DISEASE DETECTIVES DIVISION C] – ANSWER KEY

2018 National Cathedral Invitational

--- NOT FOR STUDENTS ---

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Total Points Possible: 116

Part A: Vocabulary Matching (each 2 points)

- 1. |
- 2. A
- 3. G
- 4. B
- 5. D
- 6. F
- 7. K
- 8. C
- 9. E
- 10. H
- 11. J

Part B: Multiple Choice (each worth 4 points)

- 12.D
- 13.B
- 14.E
- 15.A
- 16.B
- 17.C
- 18.B

Part C: Short Answer

- 19. Epicurve or epidemic curve (2 points)
- 20. Point source (2 points)
- 21.10/24/15 (2 points)
- 22.10/20/15; calculated by subtracting 4 days from the peak day (2 pts for correct date, 2 pts for explanation)

23.	Sick	Not Sick	(8 pts- 1 pt for each correct box)
Ate chicken	65	110	
Did not eat chicken	8	44	

Team Number:	School Name:	KEY	KEY

- 24.cohort (2 points)
- 25.relative risk: (65/(65+110))/(8/(8+44)) = 2.4 (5 points)
- *if they put case-control and calculated odds ratio, give
- 26. Since RR is greater than 1, strong correlation between the chicken and the illness (5 points)
- 27. Wash hands, separate foods in containers, cook foods thoroughly, refrigerate foods properly, wipe and clean all surfaces and equipment properly.... (2 pts for each correct answer)

(4 points each)

- 28. Clinical trial
- 29.Cohort
- 30.Cohort
- 31.Cross-sectional
- 32.Cohort
- *only give half points if they did not show work
 - 33. Tacos (66/70 = 0.9429) (2 points)
 - 34. Quesadillas (13/70 = 0.1857) (2 points)
 - 35. RR = (66/69)/(4/31) = 7.41 (4 points)
 - 36. 2 pts for each calculation

Exposed: 46/58 = 0.79 Unexposed: 24/42 = 0.57

Tiebreakers

TB1: False

TB2: False

^{*}only move onto TB2 if TB1 doesn't resolve tie