

Case Study 2: An Epidemic of Thyrotoxicosis

Adapted from CDC, Epidemiology Program Office, Case Studies in Applied Epidemiology

Part 1

On the afternoon of June 16, 1985, an endocrinologist at the University of South Dakota, Sioux Falls, was examining a patient with recent-onset thyrotoxicosis (manifestations of excess thyroid hormone) when the patient mentioned that there were four other people in his small town with the same problem. The patient was the postmaster of Valley Springs, South Dakota (population 801). Just a few days earlier, the endocrinologist had read an abstract of a CDC investigation describing an epidemic of painless thyroiditis in York County, Nebraska, in early 1984. Although the cause was never determined, the most likely etiology was believed to be viral infection. By speaking with other local physicians, the endocrinologist identified seven other patients with possible thyrotoxicosis. Six of the patients lived in Valley Springs, and two lived in southwest Minnesota. All exhibited classic symptoms of thyrotoxicosis (anxiety, shortness of breath, palpitations, rapid heartbeat, weight loss), and all had markedly elevated thyroxine (T₄) levels. All but one had abnormally low radiiodine thyroid uptakes. The endocrinologist called CDC and provided the EIS Officer with the information summarized in the line listing below.

Table 1. Line listing of patients with clinical thyrotoxicosis reported to CDC on initial telephone call, June 18, 1985

<u>Patient</u>	<u>Age</u>	<u>Sex</u>	<u>Residence</u>	<u>Onset date</u>	<u>Max. T₄*</u>	<u>24-hr. RAIU (%)†</u>
1	53	M	Valley Springs, S.D.	3-84	>20	0.6
2	34	F	Valley Springs, S.D.	5-85	18	17.0
3	57	M	Beaver Creek, S.D.	5-85	22	1.0
4	41	F	Valley Springs, S.D.	5-85	18	2.6
5	76	F	Valley Springs, S.D.	6-85	14	7.8
6	?	M	Luverne, Minn.	6-85	"high"	1.0
7	29	M	Valley Springs, S.D.	?	27	2.2
8	?	M	Luverne, Minn.	?	"high"	"low"

* Normal range = 5-12.

† RAIU - radioactive iodine uptake; normal range = 10%-35%.

Questions

1. If you were the EIS Officer receiving the call, would you be able to say that an epidemic exists?
2. What other kind of information would you want to know?
3. What would you do next?

Answers For An Epidemic Of Thyrotoxicosis

Kaayla T. Daniel



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Gary Richter, MS, DVM, 2017-08-15 As a holistic veterinarian and scientist Dr Gary Richter helps dog and cat owners to navigate the thicket of treatment options and separate the fact from the fiction He wants us to use what actually works not just what Western science or alternative medicine say should work This multifaceted approach to health is known as integrative medicine Dr Richter examines traditional medicine from many cultures alongside modern medical techniques describing the best of complementary care and the best of conventional veterinary medicine Every treatment he recommends has the backing of scientific research or years of successful outcomes in his clinical practice After explaining the treatment he offers specific recommendations for an integrative approach to common diseases including allergies skin conditions diabetes heart disease and cancer A holistic approach to health includes nutrition as it sets up the foundation for your pet s health Dr Richter cuts through the hype in the pet food world and explains how to choose the best commercial foods and supplements and even includes both raw and cooked dog and cat food recipes for general diet as well as to treat specific needs He also explains how we can use the right foods and supplements to hack the body s processes including the immune system

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who offer fresh perspectives throughout *The National Cancer Program: Overview of program administration* United States. Congress. House. Committee on Government Operations. Intergovernmental Relations and Human Resources Subcommittee, 1977

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Table of Contents Answers For An Epidemic Of Thyrotoxicosis

1. Understanding the eBook Answers For An Epidemic Of Thyrotoxicosis
 - The Rise of Digital Reading Answers For An Epidemic Of Thyrotoxicosis
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For An Epidemic Of Thyrotoxicosis
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers For An Epidemic Of Thyrotoxicosis
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For An Epidemic Of Thyrotoxicosis
 - Personalized Recommendations
 - Answers For An Epidemic Of Thyrotoxicosis User Reviews and Ratings
 - Answers For An Epidemic Of Thyrotoxicosis and Bestseller Lists
5. Accessing Answers For An Epidemic Of Thyrotoxicosis Free and Paid eBooks

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 - Answers For An Epidemic Of Thyrotoxicosis eBook Subscription Services
 - Answers For An Epidemic Of Thyrotoxicosis Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Answers For An Epidemic Of Thyrotoxicosis Compatibility with Devices
 - Answers For An Epidemic Of Thyrotoxicosis Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For An Epidemic Of Thyrotoxicosis
 - Highlighting and Note-Taking Answers For An Epidemic Of Thyrotoxicosis
 - Interactive Elements Answers For An Epidemic Of Thyrotoxicosis
 8. Staying Engaged with Answers For An Epidemic Of Thyrotoxicosis
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For An Epidemic Of Thyrotoxicosis
 9. Balancing eBooks and Physical Books Answers For An Epidemic Of Thyrotoxicosis
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For An Epidemic Of Thyrotoxicosis
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Answers For An Epidemic Of Thyrotoxicosis
 - Setting Reading Goals Answers For An Epidemic Of Thyrotoxicosis
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Answers For An Epidemic Of Thyrotoxicosis
 - Fact-Checking eBook Content of Answers For An Epidemic Of Thyrotoxicosis
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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