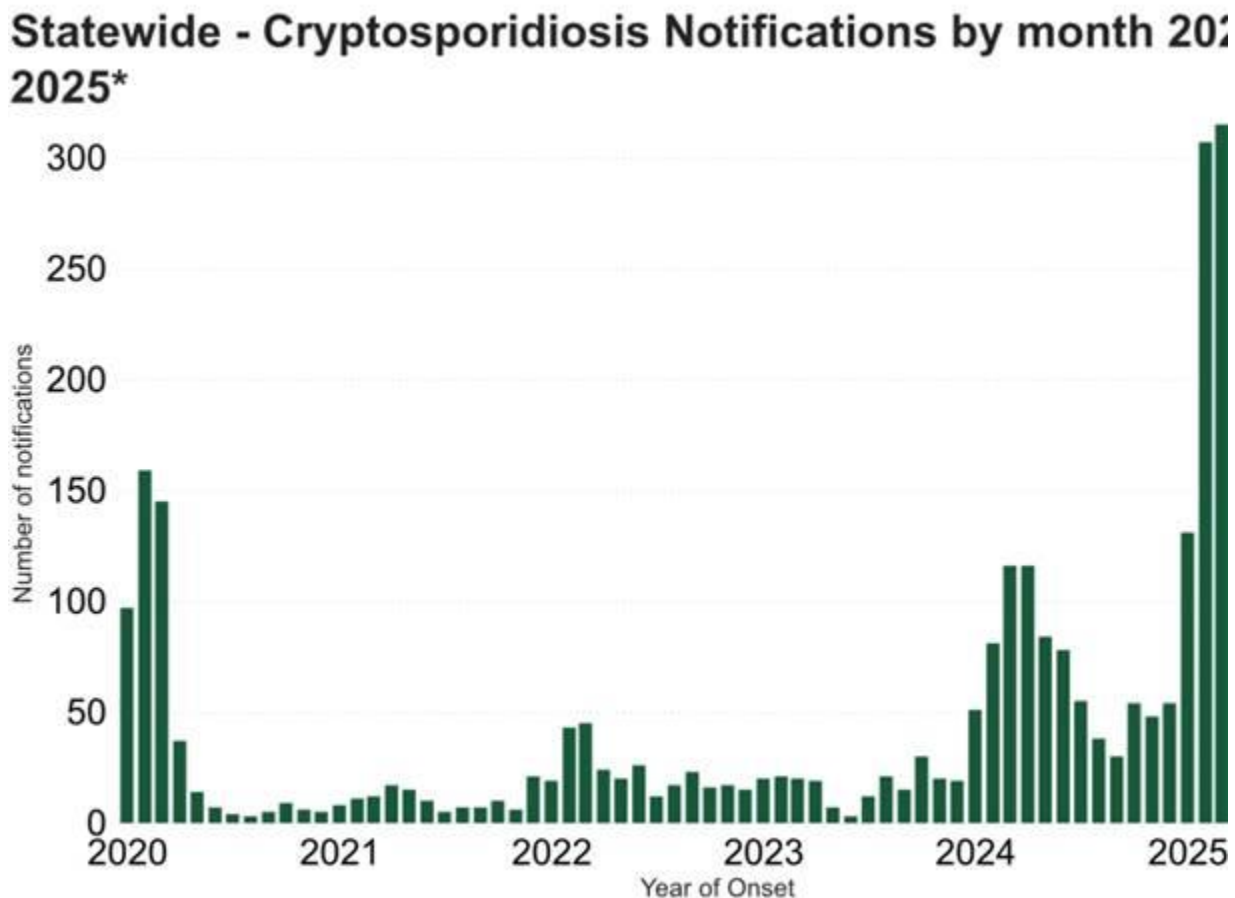


1. Cryptosporidiosis

You are a public health physician in the Communicable Disease Control unit of your State/Territory's Health Department. The OzFoodNet team have been following up an outbreak of cryptosporidiosis, related to public swimming pools in the metropolitan area. Notifications have been at levels well above average during the most recent two months (refer to Figure 1), with the majority of cases being in children <5 years old, with the second highest group in adults aged 30-40 years. Surveys sent via text messages to cases has yielded a response rate of 58%, of which 55% have reported swimming in a public swimming pool during the incubation period, and 45% of children attend a childcare. The public swimming pools attended by cases in the survey are spread across the metropolitan area, with 12 pools and 2 water parks identified. The Environmental Health team have undertaken site visits to the identified pools and water parks as part of the response. The OzFoodNet team are seeking your advice on the situation.

1. Outline what further information and data you would need to assist you in responding to this outbreak. (40%)
2. Outline how you would respond to this situation. (60%)

Figure 1



2) Rotavirus

You are a public health physician in a regional public health unit in northern Australia which services a popular tourist town and a large number of remote Aboriginal communities. There have been 30 rotavirus notifications in the previous 2 weeks, with most cases among Aboriginal children aged <5 years and the majority requiring hospitalisation. Two cases have been transferred to a metropolitan hospital with one requiring ICU admission. The 5-year average of rotavirus in the region for the same month is 6 cases. The public health unit have been receiving calls from local childcares and schools asking for advice. The local radio station has requested an interview about a reported gastro outbreak in the region leading to kids being hospitalised and wants to know what the health system is doing about it.

- a) Outline how you respond to the increase in rotavirus notifications in the region. (70%)
- b) Outline how you approach the media interview. (30%)

3) Measles

You are a public health physician in a metropolitan public health unit. The unit has been notified of 5 locally acquired measles cases within the catchment in the past week, linked to an imported case from an overseas traveller. A 6th case is notified and has been infectious in the community for over a week with multiple exposures including general practices, two hospital Emergency Departments, their workplace including visits to client's houses, and multiple public venues such as shops, restaurants and cafes.

You have been tasked with leading the response in the unit.

The Director of Communicable Disease Control in the Health Department has requested a summary of the public health unit's plan for responding to the measles outbreak.

- a) Outline the response to the most recent measles case. (50%)
- b) Outline the response to the Health Department's request. (50%)