**Zika PBL Expert Specialized Questions**

**Checklist:**

**Biological-**

1. What are the biological components?
2. How does the virus works?
3. What Is the life cycle of the virus explained including its host/infection vector?
4. How does it infect the body, body systems that it impacts/targets and its effect on those systems?
5. What is the body’s immune response to the virus, any secondary syndromes associated with contracting the virus?
6. Discuss acquired immunity following infection, diagnostics used to identify infected individuals?

**Epidemiological-**

1. How does the virus spread including human and non-human transmission from the expert viewpoint of the Epidemiologist?
2. What about location(s) and size/# of infected individuals of documented outbreaks including if it was contracted while traveling or locally?
3. What specific populations are at risk?
4. Where/when the disease was first recognized/identified and mortality rates?
5. What methods have been used to track outbreaks, potential at risk areas for future outbreaks and justification been included?

**Environmental/Social-**

1. What is the type of environment where the virus first appeared and currently thrives been communicated?
2. What are the affected age groups/at-risk populations in communities that been affected?
3. How should infrastructure, politics, living conditions be addressed?
4. What changes leading to spread including environmental changes due to human behaviors (ex. deforestation) have occurred?
5. What solutions to control the spread of Zika have been tried and with what degree(s) of success?

**Recommendations for Travelers-**

1. What precautions should travelers follow while traveling?
2. Are there different precautions for different populations?
3. What recommendations should travelers follow upon return to prevent local transmission (must be ethical and practical precautions).

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