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Description générée automatiquementDate**: April 1st, 2030

**To:** Junior Epidemiologist Team, Institut Pasteur, Paris

**From**: Director, Sycala Medical Agency

**Subject:** Mission Order #1 - Investigation of Emerging Epidemic at Sycala

Dear Team,

This letter serves as an official mission order for your team to investigate an emerging epidemic currently affecting the region of Sycala. The situation has raised concerns among regional authorities due to its potential public health implications and its impact on economic continuity.

As of March 26th, we reached 50 individuals across Sycala who have presented symptoms suggestive of infection; among them 33 are currently presenting infection symptoms. The reported signs include fever, severe headaches, skin rash, and fatigue. The precise onset of this epidemic remains uncertain; however, it is likely linked to a group of 10 residents of Noltrame who returned from vacation earlier this month, all exhibiting suspicious symptoms. Tragically, one member of this group passed away on March 14, 2030, following a rapid deterioration in their condition. The individual was transferred to the Overseas Hospital for critical care shortly before his death.

In recent days, we have observed a concerning rise in new infections, suggesting that this disease is contagious (see Annex 1.1). A second patient, who was not part of the initial group of travelers, is currently in intensive care and in critical condition at the same overseas hospital. This pattern of escalation indicates that further infections are likely unless the trajectory of this outbreak is promptly understood and mitigated.

The leaders of Sycala and its cities—Noltrame, Neamrolt, and Sorya—are deeply concerned about the potential deterioration of the situation. While their top priority remains the health of Sycala’s citizens, it is equally vital to safeguard the region’s economic activity. The resilience and industrious spirit of our citizens give us confidence that they will continue their professional responsibilities even if affected by this illness, but swift intervention is required to minimize disruption.

In the absence of the Senior Epidemiology Team, currently addressing an outbreak of Plague in Madagascar, we hope that you will be able to help us understand the nature and trajectory of this epidemic. Regular reporting is expected on specific dates (see Annex 1.2), with predictions regarding the number of infected individuals and hospitalizations.

We emphasize that this is a priority mission. You will have the support of Prof. Adrian Monray, a geographer and demographer at the Library Emuln in Noltrame, who is also an expert in Sycala’s fauna and flora. Dr. Ethan Calder, MD, from the Overseas Hospital, is closely monitoring critically ill patients and will provide updates on clinical developments.

We trust your expertise and diligence to uncover the nature of this epidemic and provide actionable insights to protect Sycala’s citizens and economy.

Sincerely,

Mr. Jacques Healwell

Director, Sycala Medical Agency

**Annex 1.1**

Follow-up of the infections in Sycala area over the last days (the follow-up was initiated when we began to fear that an abnormal epidemic situation was emerging):

|  |  |  |
| --- | --- | --- |
| Date | New infections (Incidence) | Hospitalizations + Dead |
| 22-mars | NA | 1 |
| 23-mars | 8 | 1 |
| 24-mars | 8 | 1 |
| 25-mars | 7 | 2 |
| 26-mars | 8 | 2 |
| 27-mars | 6 | 3 |
| 28-mars | 7 | 4 |
| 29-mars | 9 | 4 |
| 30-mars | 7 | 4 |
| 31-mars | 9 | 4 |
| 1-avr. | 9 | 5 |

**Annex 1.1 - Predictions**

You are asked to provide the following predictions:

**Due date: April 26th** (real time: Tuesday, 12am)

**Predicted numbers:**

|  |  |  |
| --- | --- | --- |
|  | on May 3rd | On May 20th |
| Nb. of infected individuals at that date |  |  |
| Nb. of cumulated infected individuals |  |  |
| Nb. of hospitalized + dead individuals |  |  |