Institute of Primate Research

STANDARD OPERATING PROCEDURE (SOP) DOCUMENT

Evaluating disease control programs (epidemiological and cost-effectiveness frameworks)

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Approvals

	Name	**Signature**	**Date**
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Reviewed by:	_____	_____	_____
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1. PURPOSE

To establish a rigorous and standardized approach for evaluating disease control programs, using epidemiological models and cost-effectiveness frameworks to guide public health decision-making.

2. SCOPE

Applies to all disease control interventions assessed by DS&AS, including pre-clinical trials, community surveillance studies, and One Health programs.

3. PERSONS RESPONSIBLE

- **Epidemiologist (DS&AS):** Leads design and execution of program evaluations.
- **Health Economist / Biostatistician:** Conducts cost-effectiveness and impact analyses.
- **Head of DS&AS:** Approves methodology and reports.
- **PI / Programme Lead:** Provides program-specific details and data access.

4. FREQUENCY

- **At program milestones** (baseline, midline, end line).
- **Ad-hoc evaluations** when significant policy or funding decisions are required.

5. MATERIALS

- Epidemiological models (survival analysis, transmission dynamics, and regression frameworks).
- Cost-effectiveness analysis (CEA) templates.
- Health outcome measures (DALYs, QALYs, incidence reduction).
- National and institutional health program evaluation guidelines.

6. PROCEDURE

1. **Planning:** Define evaluation objectives, target population, and intervention.
2. **Data Collection:** Gather surveillance, program, and cost data.
3. **Epidemiological Analysis:** Apply statistical and modelling methods to assess program impact on incidence, prevalence, or survival.
4. **Cost-Effectiveness Analysis:** Estimate incremental cost-effectiveness ratios (ICERs) based on costs per DALY/QALY averted.
5. **Validation:** Peer review methodology internally within DS&AS.
6. **Reporting:** Compile findings into dashboards, reports, and policy briefs.
7. **Dissemination:** Share with institutional leadership, policymakers, and stakeholders.

7. REFERENCES