Supplementary table 1. Causes of death by verbal autopsy according to maternal antibody level at time of measles vaccination in Trial II

<table>
<thead>
<tr>
<th>Cause of death</th>
<th>Undetectable measles antibody level</th>
<th>Had maternal measles antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory infection</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Diarrhoea, diarrhoea and vomiting</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Malaria, fever and anaemia</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Traditional ceremony (mongoloid child)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>No information (family moved)</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>11</td>
<td>4</td>
</tr>
</tbody>
</table>
Supplementary Figure 1: Trial diagrams for the two early two-dose measles vaccination trials.

**Trial I (1993-95)**

- Randomised to MV
  - N=150
  - Had detectable maternal antibody: N=27
  - Moved: 0
  - MV at 9 mo: 27 (100%)
  - Died: 0
  - Still in area: 17 (63%)
  - Moved: 10 (37%)
  - Died: 0

- Had no detectable maternal antibody: N=123
  - Moved: 6 (5%)
  - MV at 9 mo: 114 (93%)
  - Died: 3 (2%)
  - Still in area: 49 (43%)
  - Moved: 52 (46%)
  - Died: 13 (11%)

**Outcomes 6 to 9 months**

- Had detectable maternal antibody: N=23
  - Moved: 3 (13%)
  - MV at 9 mo: 20 (87%)
  - Died: 0
  - Still in area: 6 (30%)
  - Moved: 10 (50%)
  - Died: 4 (20%)

- Had no detectable maternal antibody: N=127
  - Moved: 6 (5%)
  - MV at 9 mo: 118 (93%)
  - Died: 3 (2%)
  - Still in area: 57 (48%)
  - Moved: 51 (43%)
  - Died: 10 (8%)

**Trial Followed**

- Randomised to IPV
  - N=150
  - Had detectable maternal antibody: N=127
  - Moved: 6 (5%)
  - MV at 9 mo: 118 (93%)
  - Died: 3 (2%)
  - Still in area: 57 (48%)
  - Moved: 51 (43%)
  - Died: 10 (8%)

- Had no detectable maternal antibody: N=23
  - Moved: 3 (13%)
  - MV at 9 mo: 20 (87%)
  - Died: 0
  - Still in area: 6 (30%)
  - Moved: 10 (50%)
  - Died: 4 (20%)

**Outcomes 9 to 60 months**

- Still in area: 49 (43%)
  - Moved: 52 (46%)
  - Died: 13 (11%)

- Still in area: 17 (63%)
  - Moved: 10 (37%)
  - Died: 0
Trial II  
March-October 2004

Randomised EZ at 4.5 mo  
N=482

- 28 No sample
- 4 invalid sample

Randomised to No vaccine at 4.5 mo  
N=958

- 10 excluded double registration

N=450 had valid antibody sample

Had detectable maternal antibody: 249  
Moved: 5 (2%)  
Absent: 7 (3%)  
MV elsewhere: 1 (0.4%)  
MV at 9 mo: 236 (95%)  
Died: 0

Had no detectable maternal antibody: 201  
Moved: 4 (2%)  
Absent: 2 (1%)  
MV elsewhere: 3 (1%)  
MV at 9 mo: 191 (95%)  
Died: 1 (0.5%)

Outcomes 4.5 to 9 months

Still in area: 163 (67%)  
Moved: 77 (32%)  
Died: 4 (2%)

Still in area: 131 (67%)  
Moved: 55 (28)  
Died: 10 (5%)

N=948 – no antibody sample collected

Moved: 35 (4%)  
Absent: 19 (2%)  
Refused MV at 9 mo: 2 (0.2%)  
MV elsewhere: 68 (7%)  
Sick: 1 (0.1%)  
Wrong vaccine: 4 (0.4%)  
MV at 9 mo: 807 (85%)  
Died: 12 (1%)

Outcomes 9 to 60 months

Still in area: 582 (65%)  
Moved: 281 (31%)  
Died: 38 (4%)

Notes: MV=measles vaccine; mo=month