**Supplementary Table 1. Incidence per 100 births for the neonatal adverse outcome indicator (NAOI) and components, by gestational age term groups.**

| Component                                      | Incidence per 100 births |
|------------------------------------------------|--------------------------|
| **NAOI (overall)**                             | 5.44                     |
| Death                                          |                          |
| Died within 28 days of birth                   | 0.2                      |
| **Diagnosis**                                  |                          |
| <32 weeks’ gestational age                     | 0.9                      |
| <1500g birth weight                            | 0.8                      |
| Birth trauma                                   | 0.1                      |
| Respiratory conditions                         |                          |
| Respiratory distress syndrome                  | 1.9                      |
| Bronchopulmonary dysplasia                     | 0.1                      |
| Pneumonia                                      | 0.1                      |
| Other respiratory conditions                   | 0.1                      |
| Intraventricular haemorrhage                   | 0.1                      |
| Hypoxic-ischaemic encephalopathy               | 0.1                      |
| Seizures                                       | 0.2                      |
| Other cerebral conditions                      | <0.1                     |
| Sepsis/septicaemia                             | 0.5                      |
| Necrotising enterocolitis                      | 0.1                      |
| **Procedures**                                 |                          |
| Resuscitation/intubation (birth record)        | 0.9                      |
| ≥2 hours mechanical ventilation*               | 1.0                      |
| Transfer to an out-of-state facility           | 0.1                      |
| Non-invasive ventilation*                      | 2.4                      |
| Invasive ventilation*                          | 1.2                      |
| Resuscitation (hospital record)                | 0.1                      |
| Intravenous infusion*                          | 2.6                      |
| Transfusion of blood or blood products         | 0.5                      |
| Central catheter*                              | 0.8                      |
| Surgical procedures                            |                          |
| Abdominal*                                     | 0.1                      |
| Cardiac*                                       | 0.1                      |
| Cerebral*                                      | <0.1                     |
| Thoracic*                                      | 0.1                      |
| Urinary system*                                | <0.1                     |

* Updated from previous published version of the NAOI [3]
Supplementary Figure 1: Sensitivity analysis of non-invasive ventilation procedures on the incidence of severe or medically significant neonatal morbidity, assessed by relevant codes from neonatal adverse outcome indicator (NAOI).