

Additional file 3. Case definition of electronic health record

1. Patient adherence by health center visits (%)

$$\text{Screening visit} = \frac{\text{Number of children at the screening visit}}{\text{Number of children aged 12 months old}} \times 100$$

$$1^{\text{st}} \text{ follow-up visit} = \frac{\text{Number of children at the 1st follow-up visit}}{\text{Number of moderate to severely anemic children at the screening visit}} \times 100$$

$$2^{\text{nd}} \text{ follow-up visit} = \frac{\text{Number of children at the 2nd follow-up visit}}{\text{Number of children who improved their Hb level}} \times 100$$

$$3^{\text{rd}} \text{ follow-up visit} = \frac{\text{Number of children at the 3rd follow-up visit}}{\text{Number of mildly anemic or non-anemic children at the 2nd follow-up visit}} \times 100$$

2. Doctor adherence by Hb tests (%)

$$\text{Screening visit} = \frac{\text{Number of children receiving Hb tests at the screening visit}}{\text{Number of children at the screening visit}} \times 100$$

$$1^{\text{st}} \text{ follow-up visit} = \frac{\text{Number of children receiving Hb tests at the 1st follow-up visit}}{\text{Number of children at the 1st follow-up visit}} \times 100$$

$$2^{\text{nd}} \text{ follow-up visit} = \frac{\text{Number of children receiving Hb tests at the 2nd follow-up visit}}{\text{Number of children at the 2nd follow-up visit}} \times 100$$

$$3^{\text{rd}} \text{ follow-up visit} = \frac{\text{Number of children receiving Hb tests at the 3rd follow-up visit}}{\text{Number of children at the 3rd follow-up visit}} \times 100$$

3. Doctor adherence by iron supplementation (%)

$$\text{Screening visit} = \frac{\text{Number of children receiving iron supplements at the screening visit}}{\text{Number of moderate to severely anemic children at the screening visit}} \times 100$$

$$1^{\text{st}} \text{ follow-up visit} = \frac{\text{Number of children receiving iron supplements at the 1st follow-up visit}}{\text{Number of children with increased Hb level at the 1st follow-up visit}} \times 100$$

Doctor adherence to iron supplementation for the 2nd and 3rd follow-up visits was not defined because children should not receive iron supplements at the 2nd and 3rd follow-ups visits, as defined in the UNRWA guidelines.