Errata for WHO/IVB/18.09

Vigilant readers of the


have noted the important corrections below. Please note these changes in your copy of the document. If you identify other corrections that should be shared with reference manual readers, kindly e-mail them to Dr. Carolina Danovaro (danovaroc@who.int) and Dale Rhoda (Dale.Rhoda@biostatglobal.com).

Corrections

1. In Annex B1, Table B-1, the expected coverage for the center column of the table is labeled “50-70%”. That label should read “30-70%”.

2. The References section should include the full citation for Dean & Pagano (2015):


3. Table 2 inadvertently repeats the column headers from Table 1. The correct column headers for Table 2 should be ‘Stage’ and ‘Activity’ and ‘Timeframe’.

4. Table B-3 inadvertently includes six extra rows. The bottom six rows of the table should not be there.

5. In Table B-3, two of the border lines across the ‘Delta’ column are mis-placed.
   
   a. The line beneath the Delta value 5 should cross the column below the row that has 90 in the first column and 149 in the third column.

   b. The line beneath the Delta value 10 should cross the column below the row that has 85 in the first column and 51 in the third column.

   c. The table should look like this:
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</tbody>
</table>

6. Table of Contents

The TOC says the List of Annexes begins on page iv; in fact, it appears on page v.
7. Chapter 1: Page 7

In Table 1, one cell reads “Caretakers may forget how many doses have been received or may over-report if feel pressure to say they have been vaccinated”; Should read “if they feel pressure”

8. Chapter 2: Page 11

Two footnotes at the bottom of the page are given the number “2”; change latter footnote to number 3

9. Chapter 6: Page 70 (Box 5)

“Hence the interpretation that we are 95% confidence that...”; change to “...we are 95% confident that...”

10. Annex A: Page 102, entry for Implicit Stratification

Misspelled occurrence as “occurrence”

11. Page 104, entry for Stratum

a. Misspelled meaningful as “meaningful”
   b. “a stratum is portion”?

12. Page 104, entry for Vaccination coverage target

   “stating that states”; change to “stating”


   “Delta is a coverage percent defining a distance from the programmatic threshold.”; change to “Delta is...”

14. Page 109

   “Use Tables B-2 or B-3 (near the end of Annex B1) to look up the ESS based on the programmatic threshold, delta, direction, \( \alpha \), and power inputs.” Delete extra comma.

15. Page 126 (Note 2): Change >=50% to \( \geq 50\% \)


   “Use the equations listed in this section to calculate an ESS that will do the job, and then refer back to Annex B1 of the annex to calculate items C (the design effect), D (the number of households needed to find an eligible candidate), and E (the inflation factor for non-response).” Delete “of the annex” – so the sentence reads “refer back to Annex B1 to calculate items...”

17. Page 139

   In the equation immediately after Equation B3-12, there is a stray 0.7 on the equation line, directly underneath a (1 - .07) that should be (1 - 0.7). The corrected equation follows:
\[ r' > \left[ \frac{1.645 \sqrt{2 \times 0.75(1 - 0.75) + 0.842 \sqrt{0.7(1 - 0.7) + 0.8(1 - 0.8)}}}{0.8 - 0.7} \right]^2 = 230.9 \]

18. Annex E : Page 155

Labels missing for three symbols in the legend. Add “Hospital, clinic, health post etc.”, “Electric pole”, and “Tree or bush” per image below.

![Legend Image]


“• draw a location map showing the location of the cluster showing the locations of all structures residing in the cluster”

Change to read:

• draw a location map showing the location of the cluster
• draw a detailed sketch map of the cluster showing the locations of all structures residing in the cluster

20. Annex H Pages 179-183

Two tables in a row called “Form SIA - Sample Questions for a Post Campaign Survey Form” starting on pg. 179 and pg. 181 respectively.

Change the second of these forms (per Microsoft Word version) to “Form RIHC – Sample Questions for a Routine Immunization Health Centre Form”

21. Annex L: Page 190, first sentence

“Vaccine coverage indictors are...” Change to indicators
22. Ch. 5 Section 5.4.2

Under subsection **Resolve data conflicts consistently**: second paragraph: Correct spelling of coverage in first sentence: Each indicator will have a favorable outcome and an unfavorable outcome: for valid coverage,

23. Annex M: Section 5.4.2

**Figure M-3**: Remove period at the end of caption


**Figure O-5**: Change MCV 1 to MCV1 (remove space)
**Figure O-6**: Change MCV 1 to MCV1 (remove space)
**Figure O-8**: Change MCV 1 to MCV1 (remove space)
**Figure O-9**: Change MCV 1 to MCV1 (remove space)
**Figure O-11**: Change MCV 1 to MCV1 (remove space)
**Figure O-12**: Change MCV 1 to MCV1 (remove space)

3rd paragraph after table O-13. Correct spelling of **administering**: “(that is, if all opportunities to receive a valid dose were successful in administering vaccines).”

25. Section 3.6 Box 3: Box 3 title is the same as the next line

a. **ACTION**: Delete black bolded line: Features of a good probability sample survey

b. **ACTION**: Delete extra lines between Box 3 title and the bulleted list (looks like there is at least one extra empty line that needs to be deleted)

26. Section 3.6 Box 3: Bullet line “Ensures that the field implementation is faithful to the sample design and survey protocol”

**ACTION**: Add a period at the end of the line for consistency with the other bullet lines

27. Section 3.3: The following sentence needs revision: **For a surveys using with biological samples, it may take longer to obtain clearance.**

**ACTION**: Re-write that sentence as the following: **For surveys using biological samples, it may take longer to obtain clearance.**

28. Section 3.4.1: **Health centre records.** ... However, you can overcome such obstacles by getting support from the local health authorities, identifying all relevant registers, photocopying all pages for the relevant time period before the time the household visits **takes** place, and assigning specific staff to review the records ideally within 24 hours of the household visits.

**ACTION**: Please replace **takes** with the following: **take**

29. Section 3.4.2 (very end): A note about finger marking as as evidence of vaccination...

**ACTION**: Please delete the second “as”

30. Section 3.6.5: Box 4: In some places, the microplanning may be possible without **visiting** the clusters, using excellent maps & Google Earth

**ACTION**: Please update to correct spelling for: visiting
31. Section 3.6.5: Box 4: Elsewhere an early visit will be necessary to make a good map and randomly select a segment to sample
   **ACTION:** Please update to correct spelling for: necessary

32. Section 3.8.2: Data Manager: ...Monitoring tools include the numbers of household visited, percentage of questionnaires completed...
   **ACTION:** Please update to correct spelling for: questionnaires

33. Last sentence in the chapter needs a period (.)
   **ACTION:** Please add a period to the last sentence in the chapter.

34. Typographical errors in Chapter 6:
   a. reproducability should be reproducibility
   b. responents should be respondents
   c. availabe should be available

35. There is a mistake in the probability of selection calculation in the example in Annex J. The probability of first-stage selection using systematic PPS should also include the number of clusters being selected. Change the text to read:
   **Example.** In the first stage of selection for the provincial stratum named Bennich, the enumeration area (EA) Panski is one of 38 chosen using systematic selection with probability proportional to estimated size. The measure of EA size (number of households) is 220 for Panski, the sampling interval is 410, and there are 15,580 total households in Bennich. Therefore, the first stage probability of selection is $38 \times 220 / 15,580 = 0.536585$.

   The sample size calculation calls for data collectors to visit 40 households in each cluster to find the appropriate number of respondents, on average. So during the micro-planning stage, Panski is divided into five segments, each of which is contiguous and has about $220/5 = 44$ households within it. Each segment is assigned a number, and a random number table is consulted to select a segment. At stage 3, every household in the segment is visited, so the 3rd stage probability of selection is 1. Within each household, every eligible respondent is interviewed, so the 4th stage probability of selection is 1. The probability of selection for each respondent is the product of probabilities at all four stages: $(38 \times 220 / 15,580) \times (1/5) \times 1 \times 1 = 0.107317$. The base weight or sampling weight is the inverse of the probability of selection. The weight assigned to each respondent in the EA named Panski is $1/0.107317 = 9.31819$.

36. Page 78: The word 'calcuation' should be 'calculation'.
37. Page 205: The word 'calcuation' should be 'calculation'.

38. Page 73: the note that reads:

   N = total number of individuals in the survey. n = number of individuals who received each vaccine according to each source of information. Note: the % vaccinated is not simply n/N because we do a weighted analysis to take into account the sample design, and not all individuals in the population had the same chance of being selected into the survey (see section 6.2).

   Should simply read: Abbreviations: CI = Confidence Interval

39. Page 70: Change "Wilson interval with continuity correction is set as the default." To "Wilson interval is set as the default."

40. Page 77: Change "To read more about MOV" to "To read more about MOVs"

41. Page 77: Change "1+ MOV" to "1+ MOVs"

42. Page 77: Change "resulting in MOV for each" to "resulting in MOVs for each"

43. Page 35: Change 'adequate number primary sampling units' to 'adequate number of primary sampling units'

44. Section 2.3 on p 11: 2nd paragraph: The phrase 'Comparative or hypothesis testing' should be in italics.

45. Page 15: Item C at the bottom of the page. The first time the phrase 'design effect' is used, it should be in italics.

46. Page 19: last paragraph: the word 'delta' should be italicized the first time it is used there.

47. Page 23: Third row; right-most cell. There should not be a close parenthesis -) at the end of the cell. The cell should end with the word 'collection.'

48. Page 23: Fourth row; right-most cell: There should be no parenthesis to finish the cell...simply end with the word 'field'.

49. Page 28: Change phrase: (the number of clusters containing the subgroup minus the number of strata containing the subgroup) to (the number of clusters minus the number of strata).

50. Page 32: Drop the sentence: If a date is mentioned in the card it should be recorded, otherwise it should be marked as vaccinated with no date.

51. Page 33: Drop the parentheses around the phrase "(or 24-35 months)" in the first bullet.

52. Page 64: Figure 4 should be replaced with the version from the 2015 draft that has vertical bars of varying widths...as described in the text...instead of bars with all the same width. It looks like this:
53. Table D-4 is split across two pages. Re-arrange the text and tables on pp 147-149 so that table is on a single page.

54. Make the second header rows of Tables 4 & 6 & 7 shaded with white text.

55. Take the italics out of the shaded table rows in Annex O. (None of the other tables in the document have italicized header rows.)

56. On p95, make the paragraph that appears before the final bullet, also its own bullet (i.e., change that 2-paragraph bullet into 2 1-paragraph bullets)

57. Change footnotes 2-7 in chapter 6 to simply be notes underneath the tables, using asterisks instead of footnote numbers.

58. In section 6.4.1, re-format the Numerator & Denominator paragraphs as shown below, indented, with bold words Numerator & Denominator, and no space between the numerator and denominator entries. Same comment on pages 205 & 207. The formatting on 207 is inconsistent...some indented and now empty rows between Denominator and Numerator, and some left-justified with empty row between. Make them all consistent, as listed for CB1a on page 207.

   **Numerator**: Children in (CB2) numerator who had not received any of the missed vaccine(s) by the time of the survey

   **Denominator**: Same denominator as (CB2)

59. Page 212: last table cell on the page...lower right...contains a 49: should be centered in the cell

60. On page II, after the text: “Published June 2018”, Add the text: “; Revised for error correction: March 2019”
Note that this document may be updated in the future. The most recent version should be accessible at http://www.who.int/immunization/documents/who_ivb_18.09/en/.