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in

Riese, Sara, Shireen Assaf, and Thomas Pullum. 2021. *Measurement Approaches for Effective Coverage Estimation*. DHS Methodological Reports No. 31. Rockville, Maryland, USA: ICF.

Date of correction	Correction
Nov 15, 2021	Page 15, Table 6 New data are highlighted in tables below.
	Page 17, Figure 2 Confidence intervals of quality-adjusted coverage in Approaches 2 and 3 corrected.
	Page 18, Figure 3 Confidence intervals of intervention-adjusted and quality-adjusted coverage in Approaches 2 and 3 corrected.
	Page 19, Figure 4 Confidence intervals of quality-adjusted coverage in Approaches 2 and 3 corrected.
	Page 20, Figure 5 Confidence intervals of intervention-adjusted and quality-adjusted coverage in Approaches 2 and 3 corrected.
	Appendix A, Table 4 Confidence intervals of client-level process quality measures were added and are highlighted in tables below.

The calculation of confidence intervals for client-level measures from the two facility census SPAs (Haiti and Malawi) was corrected. This correction resulted in changes to the confidence intervals in Table 6 on page 15, Figures 2-5, as well as in Appendix A Table 4. No text was changed. These changes do not affect the interpretation of the estimates or the overall findings of the report.

Table 6 Values of each component of each effective coverage measurement approach

	Coverage	Readiness	Receipt of complete intervention	Process quality
Haiti				
ANC				
Approach 1	0.91 [0.90, 0.93]	NA	0.67 [0.64, 0.69]	0.84 [0.83, 0.85]
Approach 2	0.91 [0.90, 0.93]	0.70 [0.70, 0.70]	0.67 [0.64, 0.69]	0.59 [0.57, 0.60]
Approach 3	0.91 [0.90, 0.93]	0.58 [0.58, 0.58]	0.67 [0.64, 0.69]	0.55 [0.53, 0.56]
Sick child				
Approach 1	0.26 [0.23, 0.29]	NA	0.20 [0.17, 0.23]	NA
Approach 2	0.26 [0.23, 0.29]	0.73 [0.73, 0.73]	0.45 [0.40, 0.50]	0.46 [0.43, 0.49]
Approach 3	0.26 [0.23, 0.29]	0.59 [0.59, 0.59]	0.45 [0.40, 0.50]	0.37 [0.36, 0.39]
Malawi				
ANC				
Approach 1	0.98 [0.98, 0.99]	NA	0.51 [0.49, 0.52]	0.70 [0.69, 0.71]
Approach 2	0.98 [0.98, 0.99]	0.50 [0.50, 0.50]	0.51 [0.49, 0.52]	0.49 [0.47, 0.51]
Approach 3	0.98 [0.98, 0.99]	0.62 [0.62, 0.62]	0.51 [0.49, 0.52]	0.57 [0.55, 0.58]
Sick child				
Approach 1	0.53 [0.50, 0.55]	NA	0.42 [0.40, 0.44]	NA
Approach 2	0.53 [0.50, 0.55]	0.85 [0.85, 0.85]	0.92 [0.89, 0.94]	0.29 [0.27, 0.32]
Approach 3	0.53 [0.50, 0.55]	0.64 [0.64, 0.64]	0.92 [0.89, 0.94]	0.33 [0.31, 0.35]

Figure 2 ANC effective coverage cascade in Haiti for each measurement approach

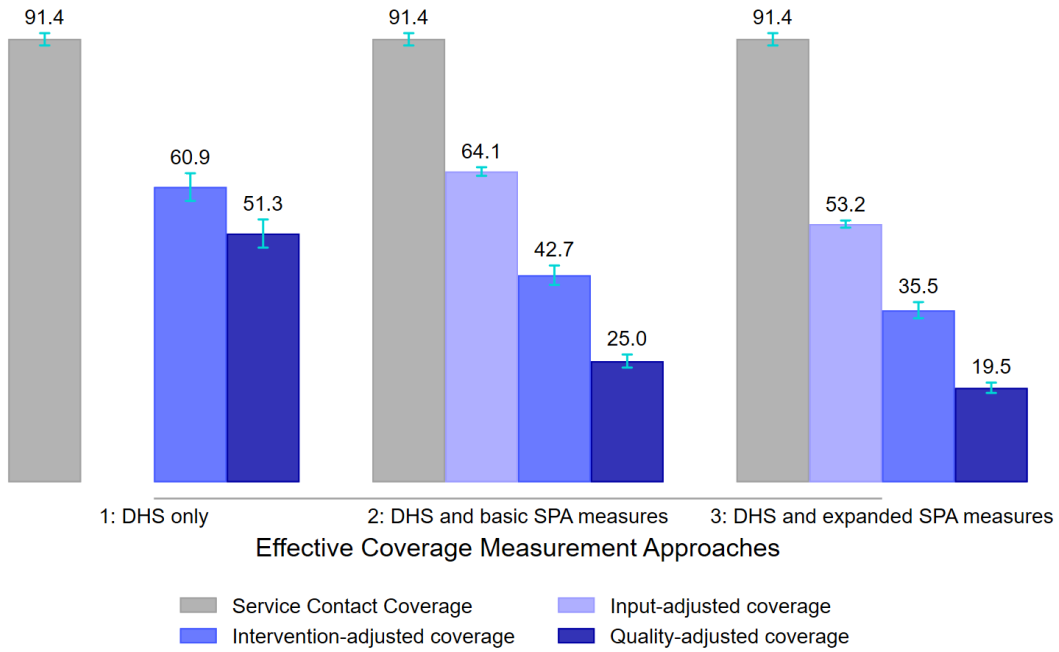


Figure 3 Sick child effective coverage cascade (among children with ARI/diarrhea symptoms in last 2 weeks) in Haiti for each measurement approach

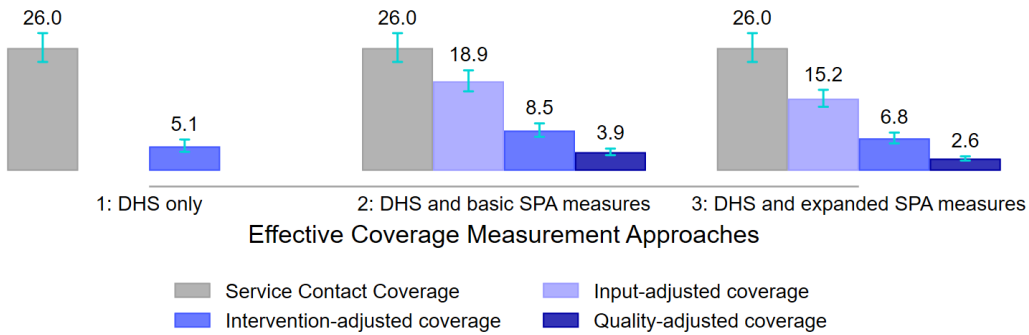


Figure 4 ANC effective coverage cascade in Malawi for each measurement approach

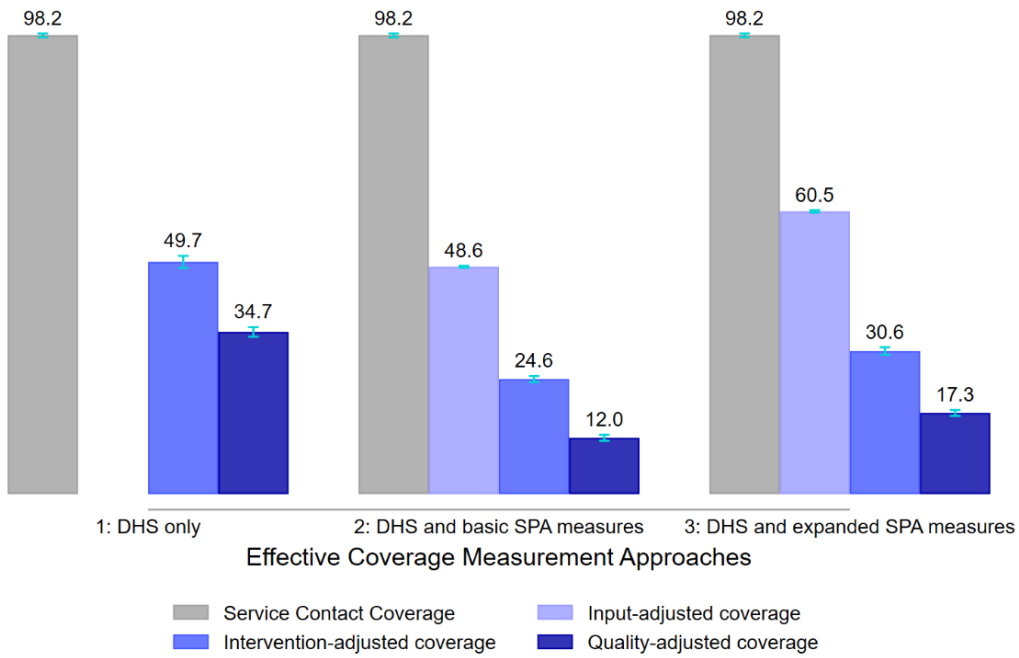
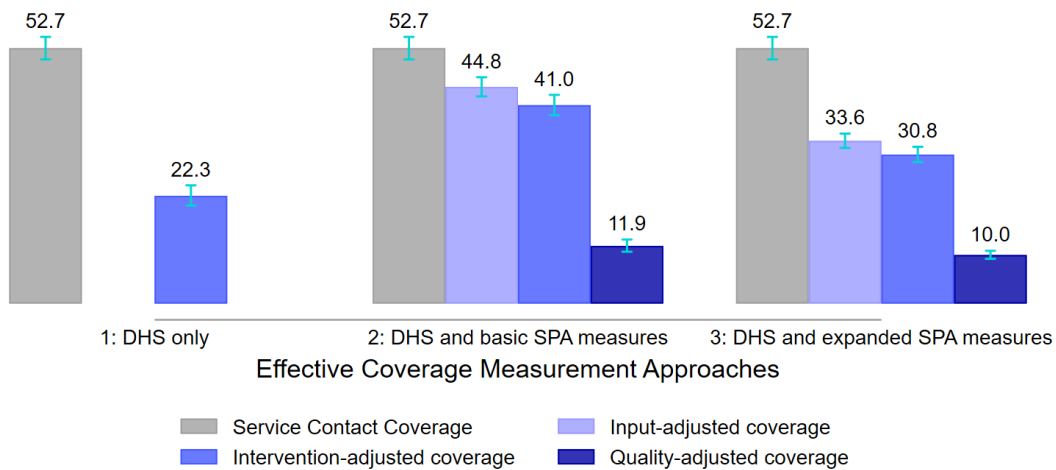


Figure 5 Sick child effective coverage cascade (among children with ARI/diarrhea symptoms in last 2 weeks) in Malawi for each measurement approach



Appendix Table 4 ANC process indicators among women attending their first visit and sick child intervention and process indicators

	Haiti	Malawi	Nepal	Senegal	Tanzania
ANC process quality					
Client history	98.7 [97.6,99.3]	96.1 [94.4,97.3]	87.3 [81.2,91.6]	96.2 [92.2,98.2]	97.2 [95.9,98.2]
Urine test	66.0 [60.4,71.1]	4.3 [2.8,6.6]	38.9 [31.9,46.5]	68.0 [51.3,81.1]	41.4 [36.3,46.8]
Hb test	70.9 [65.4,75.9]	9.6 [7.4,12.5]	41.2 [34.1,48.6]	40.7 [29.8,52.7]	46.6 [41.2,52.1]
Syphilis test	64.0 [58.1,69.5]	12.6 [10.1,15.8]	22.8 [17.8,28.7]	64.6 [48.7,77.8]	41.9 [36.8,47.2]
Checked blood pressure	95.8 [92.9,97.5]	48.0 [44.2,51.8]	83.4 [76.7,88.5]	97.6 [93.9,99.1]	72.2 [66.6,77.2]
Measured weight	91.4 [87.6,94.1]	73.7 [70.0,77.0]	72.3 [63.9,79.5]	97.8 [93.8,99.2]	79.2 [73.4,83.9]
Checked fundal height	70.5 [65.1,75.3]	94.9 [93.2,96.2]	39.1 [32.9,45.7]	84.8 [61.1,95.2]	94.8 [92.7,96.2]
Physical examination/vaginal exam	10.4 [7.3,14.6]	3.5 [2.5,4.9]	2.8 [1.4,5.5]	74.8 [56.8,87.0]	10.3 [7.8,13.6]
Checked edema	18.6 [14.7,23.3]	64.8 [61.0,68.3]	26.2 [20.8,32.4]	78.5 [68.0,86.2]	58.6 [54.1,63.0]
Checked client card	43.9 [37.6,50.4]	99.9 [99.2,100.0]	90.2 [84.2,94.1]	86.4 [78.3,91.8]	94.1 [91.9,95.8]
Examined palms for anemia/check pallor for anemia	91.4 [87.6,94.1]	73.7 [70.0,77.0]	72.3 [63.9,79.5]	97.8 [93.8,99.2]	79.2 [73.4,83.9]
Daily oral iron and folic acid supplementation (counseled or prescribed)	80.6 [76.2,84.4]	90.7 [88.3,92.6]	77.7 [71.7,82.8]	97.6 [95.3,98.8]	86.5 [83.0,89.5]
Tetanus toxoid vaccination	29.7 [24.3,35.8]	45.2 [41.4,49.0]	31.3 [25.4,37.9]	66.3 [54.6,76.3]	52.1 [47.4,56.8]
Danger signs of current pregnancy	75.3 [70.5,79.5]	62.5 [58.6,66.3]	58.0 [50.2,65.5]	74.0 [55.9,86.4]	74.3 [69.0,78.9]
Counseling on healthy eating	49.2 [43.5,55.0]	44.5 [40.6,48.3]	52.9 [45.6,60.2]	61.2 [47.9,73.0]	34.7 [30.2,39.5]
Informed the client about the progress of the pregnancy	21.5 [17.6,26.0]	56.7 [52.9,60.4]	24.3 [18.5,31.1]	27.9 [19.6,38.0]	49.9 [45.2,54.7]
Counseled on breastfeeding	4.3 [2.4,7.5]	9.9 [7.5,12.9]	2.1 [1.0,4.6]	4.8 [2.4,9.5]	15.8 [13.0,19.1]
Wrote on client card	38.9 [32.7,45.4]	99.9 [99.2,100.0]	88.5 [82.5,92.7]	86.1 [78.0,91.6]	94.1 [91.9,95.7]
Encouraged questions	66.2 [60.1,71.9]	78.0 [74.6,81.1]	37.1 [30.2,44.4]	65.2 [49.6,78.2]	79.5 [74.9,83.4]
Sick child complete intervention coverage					
Child diagnosed with pneumonia	2.8 [2.1,3.8]	11.6 [10.3,13.1]	8.2 [6.5,10.2]	5.0 [3.0,8.1]	11.6 [10.2,13.1]
Child diagnosed with diarrhea	15.5 [13.7,17.5]	10.4 [9.2,11.7]	15.8 [13.8,18.0]	29.7 [14.0,52.2]	17.2 [15.5,19.0]
Child with pneumonia given any antibiotic	62.4 [48.4,74.5]	98.0 [95.9,99.1]	86.7 [79.1,91.8]	94.6 [80.5,98.7]	96.4 [94.0,97.8]
Child with diarrhea given ORS or zinc	41.7 [36.3,47.2]	85.9 [81.7,89.2]	74.4 [67.7,80.1]	82.1 [59.9,93.4]	64.9 [60.0,69.5]
Child with any of these 2 given treatment	44.9 [39.8,50.1]	91.6 [89.1,93.5]	77.8 [72.4,82.4]	84.4 [66.9,93.6]	76.9 [73.5,80.0]

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Appendix Table 4—continued

	Haiti	Malawi	Nepal	Senegal	Tanzania
Sick child process quality					
Provider counted respiration for 60 seconds	37.7 [32.9,42.7]	24.2 [22.0,26.5]	54.8 [49.1,60.3]	69.4 [54.3,81.2]	22.5 [19.4,26.0]
Provider weighed client	81.3 [77.7,84.5]	26.5 [24.3,28.7]	50.2 [45.5,54.9]	61.7 [38.6,80.4]	16.1 [13.7,18.8]
Provider plotted weight on growth chart	10.5 [8.4,13.1]	7.3 [6.0,8.7]	16.7 [13.6,20.3]	96.6 [94.1,98.0]	4.7 [3.3,6.5]
Provider checked palms/conjunctiva for pallor	49.4 [45.9,52.8]	43.6 [41.5,45.9]	14.5 [12.3,17.0]	17.3 [10.4,27.5]	41.7 [38.7,44.8]
Provider discussed weight/growth/growth chart	9.7 [7.9,11.8]	8.7 [7.6,9.8]	4.1 [3.0,5.6]	11.5 [6.8,18.6]	24.3 [21.8,27.0]
Checked skin turgor for dehydration	55.0 [49.0,60.8]	42.1 [37.8,46.4]	29.1 [23.5,35.5]	69.6 [43.6,87.1]	46.0 [41.5,50.6]
Provider took temperature	85.3 [82.3,87.8]	42.1 [39.9,44.2]	47.6 [43.6,51.7]	96.1 [92.9,97.9]	42.5 [38.8,46.2]
Provider checked for edema	5.8 [4.6,7.3]	8.0 [6.9,9.2]	1.6 [1.0,2.6]	8.0 [5.0,12.4]	6.0 [4.7,7.6]
Felt the child for fever or body hotness	16.1 [13.8,18.6]	42.3 [40.0,44.5]	29.0 [25.8,32.3]	5.5 [3.2,9.3]	33.9 [31.0,37.0]
Checked for neck stiffness	3.3 [2.4,4.4]	1.9 [1.5,2.6]	0.9 [0.5,1.5]	0.6 [0.2,1.5]	5.8 [4.6,7.4]
Looked in child's ear	16.1 [13.5,19.1]	4.0 [3.3,4.9]	10.1 [8.1,12.6]	10.8 [6.2,18.2]	12.7 [10.9,14.8]
Felt behind child's ear	11.3 [9.6,13.3]	4.4 [3.6,5.5]	5.8 [4.5,7.4]	9.4 [4.9,17.5]	9.0 [7.4,10.9]
Checked vaccination status	21.3 [18.9,23.9]	16.5 [15.1,18.0]	5.9 [4.8,7.4]	60.0 [44.4,73.9]	24.3 [21.8,26.9]
Check mouth and throat	19.2 [16.7,21.9]	9.6 [8.4,11.0]	11.4 [9.6,13.5]	23.0 [8.5,49.2]	17.1 [15.0,19.3]
Provider asked / caretaker mentioned if child unable to drink or breastfeed	19.5 [17.3,21.9]	27.8 [25.9,29.9]	21.6 [18.9,24.5]	2.4 [1.2,4.6]	27.8 [25.3,30.3]
Provider asked / caretaker mentioned cough or difficult breathing	64.5 [61.9,67.1]	73.8 [71.8,75.6]	55.9 [52.4,59.3]	59.8 [40.5,76.5]	75.4 [73.1,77.5]
Provider asked / caretaker mentioned diarrhea	32.0 [29.1,35.1]	39.0 [36.9,41.1]	41.2 [38.1,44.5]	42.8 [25.6,62.0]	59.4 [56.6,62.1]
Provider asked / caretaker mentioned fever	65.1 [62.2,68.0]	77.3 [75.2,79.2]	77.1 [73.9,80.0]	66.5 [45.4,82.6]	93.3 [92.1,94.3]
Provider asked / caretaker mentioned convulsions	3.7 [2.9,4.8]	9.3 [8.1,10.6]	4.5 [3.3,6.3]	0.8 [0.4,2.0]	20.1 [17.7,22.7]
Provider asked caretaker about vomiting	24.7 [22.4,27.2]	34.8 [32.8,36.9]	20.4 [17.7,23.5]	16.7 [11.1,24.3]	48.7 [45.7,51.7]
Provider asked / caretaker mentioned ear pain	4.9 [3.9,6.0]	4.8 [3.9,5.8]	17.6 [14.8,20.8]	3.6 [1.6,8.0]	16.4 [14.1,19.0]
Provider asked about normal feeding/breastfeeding when not ill	39.9 [36.7,43.1]	14.2 [12.8,15.8]	17.7 [15.1,20.7]	26.7 [17.9,37.8]	27.9 [25.4,30.5]
Provider asked about feeding or breastfeeding during this illness	31.5 [28.9,34.1]	15.5 [14.0,17.1]	16.4 [14.0,19.2]	7.8 [4.7,12.7]	18.8 [16.8,21.0]
Provide general information about feeding/breastfeeding	27.9 [25.0,30.9]	8.7 [7.5,9.9]	11.1 [9.2,13.3]	25.4 [17.1,35.9]	14.4 [12.6,16.4]
Advise extra fluids during this sickness	16.8 [14.6,19.2]	7.5 [6.5,8.6]	17.5 [15.0,20.3]	6.8 [4.1,10.9]	11.9 [10.4,13.7]
Advise continued feeding during sickness	15.2 [13.2,17.5]	11.8 [10.5,13.1]	16.7 [14.4,19.3]	9.5 [6.1,14.7]	13.1 [11.4,14.9]
Provider described more than 1 danger sign requiring return to facility	5.8 [4.6,7.3]	11.3 [10.1,12.7]	7.1 [5.7,8.7]	6.3 [3.8,10.1]	16.6 [14.4,19.1]
Provider stated diagnosis to caretaker	15.2 [13.2,17.4]	40.5 [38.4,42.7]	34.9 [31.1,39.0]	12.1 [7.8,18.2]	48.8 [45.4,52.2]
Provider explained dosing if medication prescribed	73.0 [69.2,76.4]	51.1 [48.7,53.5]	56.2 [51.6,60.6]	66.8 [51.8,79.0]	50.5 [46.4,54.7]
Provider asked caretaker to repeat the instructions for giving medicines at home (if medication prescribed)	5.9 [4.6,7.6]	5.9 [5.0,7.0]	3.7 [2.4,5.5]	2.0 [1.1,3.8]	11.2 [9.0,13.9]
Provider discussed follow-up visit	35.3 [31.8,38.9]	20.7 [19.1,22.3]	25.9 [22.8,29.2]	60.3 [45.1,73.8]	22.8 [20.3,25.5]
Provider used visual aids	0.3 [0.1,0.9]	0.2 [0.1,0.4]	0.2 [0.1,0.7]	1.5 [0.6,3.2]	0.9 [0.4,1.8]
Provider recorded on child's health card/booklet	17.8 [14.8,21.1]	87.8 [86.1,89.4]	65.3 [60.3,70.1]	21.4 [7.2,48.9]	21.5 [18.5,24.8]