

Hospital code	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	All hospitals pooled				
																								Cluster adjusted estimates n(95% CI)	Mediab (IQR) for hospital specific proportions	Range hospital specific estimates	
Age in Months																											
Median (IQR)	18[11-27]	14[8-30]	11[6-30]	11[8-19]	14[7-24]	20[9-36]	16[7-29]	18[11-30]	16[9-30]	11[6-19]	20[12-34]	12[9-22]	14[7-22]	14[6-30]	9[5-18]	12[8-25]	16[8-28]	19[9-36]	9[6-18]	15[10-30]	17[10-37]	18[11-36]					
Weight																											
Weight documented	50 (83)	42 (71)	60 (100)	43 (72)	38 (67)	50 (93)	58 (97)	23 (39)	47 (77)	26 (44)	59 (98)	28 (56)	57 (95)	51 (85)	55 (92)	59 (98)	56 (93)	56 (93)	47 (78)	52 (87)	58 (98)	50 (83)		341 (79 [64 - 88])	89[67-100]	0_100	
Gender																											
Male	35 (59)	39 (68)	39 (65)	35 (58)	29 (51)	30 (56)	34 (57)	34 (58)	38 (62)	32 (54)	32 (53)	27 (54)	36 (60)	34 (57)	35 (59)	35 (60)	34 (57)	32 (53)	36 (61)	34 (57)	34 (59)	33 (55)		747 (59 [57 - 60])	58[57-62]	53_68	
PAR use																											
PAR used	0 (0)	0 (0)	60 (100)	8 (13)	0 (0)	0 (0)	57 (95)	30 (51)	22 (36)	38 (64)	25 (42)	0 (0)	44 (73)	10 (17)	0 (0)	54 (93)	57 (95)	55 (92)	2 (3)	1 (2)	53 (91)	42 (70)		558 (43 [27 - 61])	39[0-91]	0_100	
length of stay																											
Median (IQR)	2[1-3]	2[1-3]	4[2-8]	3[2-5]	5[2-8]	2[2-5]	4[3-6]	3[2-4]	3[2-5]	3[2-5]	4[3-7]	3[2-4]	5[3-7]	4[3-7]	4[2-8]	4[2-10]	5[2-7]	4[2-6]	4[3-7]	3[2-6]	2[1-4]	3[2-4]			3[2-6]	3_8	
History documentation (max 11)																											
Median (IQR)	4[3-7]	8[6-10]	11[11-11]	11[11-11]	11[11-11]	6[3-8]	11[11-11]	9[6-11]	8[5-11]	5[4-7]	7[5-11]	6[4-8]	10[4-11]	6[5-9]	4[2-5]	11[11-11]	4[2-4]	10[8-11]	4[3-7]	7[5-9]	11[11-11]	11[9-11]			9[5-11]	4_11	
Examination documentation (max 22)																											
Median (IQR)	8[6-9]	7[6-9]	22[22-22]	19[18-21]	17[14-19]	8[6-9]	21[20-21]	12[7-16]	8[5-16]	11[4-15]	10[6-17]	6[5-8]	17[10-19]	8[6-12]	6[5-7]	21[21-22]	15[13-16]	12[9-13]	8[6-9]	8[6-9]	22[21-22]	19[7-21]			11[7-19]	6_22	
Malaria																											
Malaria cases	51	43	18	4	21	36	11	46	25	1	50	34	0	4	6	5	0	14	10	35	0	19			433		
AVPU documented	34 (67)	37 (86)	18 (100)	4 (100)	18 (86)	31 (86)	11 (100)	38 (83)	13 (52)	1 (100)	36 (72)	13 (38)	0 (.)	3 (75)	4 (67)	5 (100)	0 (.)	13 (93)	8 (80)	30 (86)	0 (.)	13 (68)		330 (76 [66 - 84])	86[68-100]	38_100	
Acidotic breathing documented	0 (0)	2 (5)	17 (94)	4 (100)	19 (90)	0 (0)	11 (100)	23 (50)	8 (32)	1 (100)	22 (44)	0 (0)	0 (.)	0 (0)	0 (0)	5 (100)	0 (.)	2 (14)	0 (0)	0 (0)	0 (.)	15 (79)		129 (30 [15 - 50])	32[0-94]	0_100	
Pallor documented	50 (98)	41 (95)	18 (100)	3 (75)	21 (100)	35 (97)	11 (100)	45 (98)	25 (100)	1 (100)	47 (94)	30 (88)	0 (.)	4 (100)	6 (100)	5 (100)	0 (.)	14 (100)	7 (70)	34 (97)	0 (.)	17 (89)		414 (96 [93 - 97])	98[94-100]	70_100	
Fever documented	48 (94)	43 (100)	18 (100)	4 (100)	21 (100)	35 (97)	11 (100)	46 (100)	23 (92)	1 (100)	48 (96)	31 (91)	0 (.)	4 (100)	2 (33)	5 (100)	0 (.)	14 (100)	8 (80)	33 (94)	0 (.)	18 (95)		413 (95 [92 - 97])	100[94-100]	33_100	
Malaria process indicators																											
Tested for malaria	49 (96)	38 (88)	18 (100)	4 (100)	16 (76)	35 (97)	11 (100)	44 (96)	20 (80)	1 (100)	47 (94)	29 (85)	0 (.)	4 (100)	2 (33)	5 (100)	0 (.)	12 (86)	8 (80)	34 (97)	0 (.)	19 (100)		396 (91 [87 - 95])	96[85-100]	33_100	
Lab confirmed malaria cases	19 (37)	32 (74)	14 (78)	1 (25)	13 (62)	13 (36)	10 (91)	35 (76)	7 (28)	0 (0)	9 (18)	4 (12)	0 (.)	4 (100)	0 (0)	4 (80)	0 (.)	4 (29)	2 (20)	26 (74)	0 (.)	11 (58)		208 (48 [33 - 63])	37[20-76]	0_100	
Malaria cases with Quinine loading dose	44 (86)	41 (95)	13 (72)	1 (25)	16 (76)	30 (83)	11 (100)	42 (91)	14 (56)	0 (0)	39 (78)	20 (59)	0 (.)	4 (100)	1 (17)	1 (20)	0 (.)	9 (64)	3 (30)	15 (43)	0 (.)	16 (84)		320 (74 [62 - 83])	72[30-86]	0_100	
Of the tested cases number with slide positive results	19 (66)	32 (91)	14 (82)	1 (33)	13 (87)	13 (45)	10 (91)	35 (95)	7 (58)	0 (0)	9 (35)	4 (50)	0 (.)	4 (100)	0 (.)	4 (80)	0 (.)	4 (60)	2 (33)	26 (87)	0 (.)	11 (65)		208 (72 [57 - 83])	73[45-87]	0_100	
Of the tested cases number prescribed quinine loading dose with negative result	7 (16)	1 (2)	2 (15)	0 (0)	1 (6)	11 (37)	1 (9)	1 (2)	3 (21)	0 (.)	13 (33)	2 (10)	0 (.)	0 (0)	0 (0)	0 (0)	0 (.)	0 (0)	1 (33)	0 (0)	0 (.)	5 (31)		48 (15 [8 - 26])	7.5[0 - 21]	0_37	
Malaria cases with correct Quinine dose mg/kg	35 (95)	28 (97)	12 (100)	0 (.)	10 (83)	24 (89)	7 (100)	17 (94)	12 (100)	0 (.)	40 (98)	11 (85)	0 (.)	4 (100)	1 (100)	1 (100)	0 (.)	9 (100)	2 (100)	16 (100)	0 (.)	14 (100)		243 (95 [92 - 97])	100[95-100]	83_100	
Pneumonia process indicators																											
Pneumonia cases	15	16	32	37	10	19	28	13	20	27	34	28	37	20	38	39	37	38	35	16	33	25			597		
Cough documented	14 (93)	16 (100)	32 (100)	37 (100)	10 (100)	18 (95)	28 (100)	11 (85)	19 (95)	22 (81)	33 (97)	27 (96)	31 (84)	19 (95)	32 (84)	39 (100)	29 (78)	38 (100)	31 (89)	16 (100)	33 (100)	25 (100)		560 (94 [89 - 97])	97[89-100]	78_100	
Respiratory rate documented	13 (87)	10 (63)	32 (100)	36 (97)	7 (70)	14 (74)	23 (82)	3 (23)	10 (50)	6 (22)	17 (50)	20 (71)	20 (54)	14 (70)	3 (8)	34 (87)	21 (57)	35 (92)	13 (37)	14 (88)	33 (100)	13 (52)		391 (65 [51 - 78])	70[50-87]	8_100	
Lower chest wall in-drawing documented	14 (93)	3 (19)	32 (100)	37 (100)	10 (100)	7 (37)	28 (100)	10 (77)	16 (80)	16 (59)	29 (85)	15 (54)	32 (86)	10 (50)	23 (61)	39 (100)	35 (95)	31 (82)	28 (80)	11 (69)	33 (100)	22 (88)		481 (81 [70 - 88])	84[61-100]	47_100	
Central cyanosis documented	12 (80)	14 (88)	32 (100)	36 (97)	10 (100)	9 (47)	28 (100)	12 (92)	13 (65)	21 (78)	25 (74)	21 (75)	31 (84)	16 (80)	31 (82)	39 (100)	35 (95)	37 (97)	34 (97)	14 (88)	33 (100)	22 (88)		525 (88 [81 - 93])	88[80-97]	47_100	
AVPU documented	10 (67)	15 (94)	32 (100)	37 (100)	8 (80)	14 (74)	28 (100)	11 (85)	9 (45)	18 (67)	27 (79)	8 (29)	32 (86)	14 (70)	17 (45)	39 (100)	34 (92)	35 (92)	30 (86)	15 (94)	33 (100)	16 (64)		482 (81 [69 - 89])	86[67-94]	29_100	
Grunting documented	9 (60)	1 (6)	32 (100)	37 (100)	10 (100)	2 (11)	28 (100)	8 (62)	12 (60)	12 (44)	17 (50)	4 (14)	26 (70)	5 (25)	2 (5)	39 (100)	35 (95)	12 (32)	17 (49)	4 (25)	33 (100)	21 (84)		366 (61 [44 - 76])	60[25-100]	5_100	
Ability to drink documented	2 (13)	0 (0)	32 (100)	37 (100)	9 (90)	0 (0)	28 (100)	8 (62)	5 (25)	17 (63)	13 (38)	8 (29)	30 (81)	3 (15)	5 (13)	39 (100)	31 (84)	13 (34)	5 (14)	1 (6)	33 (100)	20 (80)		339 (57 [39 - 73])	50[14-90]	0_100	
Crystalline penicillin dose accuracy	10 (100)	10 (83)	23 (85)	23 (100)	6 (100)	12 (92)	22 (100)	1 (100)	13 (100)	10 (91)	28 (88)	6 (100)	31 (97)	14 (93)	24 (77)	30 (91)	28 (90)	29 (94)	22 (96)	12 (100)	21 (100)	20 (87)		395 (92 [88 - 95])	95[90-100]	77_100	
Gentamicin dose accuracy	4 (100)	8 (80)	18 (72)	8 (100)	5 (100)	7 (88)	17 (89)	0 (.)	12 (100)	5 (83)	22 (100)	4 (67)	13 (87)	12 (86)	13 (93)	18 (100)	14 (74)	25 (89)	4 (100)	7 (100)	4 (100)	12 (92)		232 (89 [82 - 93])	92[86-100]	67_100	
Correct antibiotic treatment as per severity classification	11 (73)	9 (56)	23 (72)	28 (76)	1 (10)	10 (53)	9 (32)	2 (15)	14 (70)	17 (63)	11 (32)	12 (43)	30 (81)	12 (60)	25 (66)	28 (72)	31 (84)	18 (47)	14 (40)	12 (75)	22 (67)	12 (48)		351 (59 [50 - 67])	62[43-72]	10_84	
Dehydration																											
Dehydration cases	4	6	9	8	12	9	13	16	23	21	11	7	21	27	7	5	13	11	17	10	7	14			271		
Sunken eyes documented	2 (50)	0 (0)	9 (100)	8 (100)	12 (100)	3 (33)	13 (100)	3 (19)	6 (26)	2 (10)	9 (82)	2 (29)	0 (0)	12 (44)	3 (43)	5 (100)	0 (0)	3 (27)	3 (18)	3 (30)	7 (100)	7 (50)		112 (41 [27 - 58])	38[19-100]	0_100	
Skin pinch documented	2 (50)	0 (0)	7 (78)	7 (88)	6 (50)	4 (44)	13 (100)	9 (56)	10 (43)	4 (19)	5 (45)	0 (0)	14 (67)	10 (37)	1 (14)	4 (80)	4 (31)	5 (45)	7 (41)	3 (30)	7 (100)	7 (50)		129 (48 [37 - 58])	45[31-67]	0_100	
zinc prescribed	3 (75)	3 (50)	5 (56)	6 (75)	6 (50)	6 (67)	12 (92)	5 (31)	19 (83)	14 (67)	6 (55)	2 (29)	19 (90)	22 (81)	6 (86)	3 (60)	7 (54)	5 (45)	9 (53)	8 (80)	4 (57)	9 (64)		179 (66 [57 - 74])	62[53-80]	29_92	
Dehydration cases with IV fluids prescribed	3 (75)	5 (83)	3 (33)	7 (88)	11 (92)	7 (78)	13 (100)	11 (69)	19 (83)	12 (57)	9 (82)	16 (76)	26 (96)	7 (100)	5 (100)	3 (32)	9 (82)	6 (35)	10 (100)	7 (100)	8 (57)			204 (75 [63 - 85])	82[69-100]	23_100	
Severe dehydration cases with IV fluids	2 (67)	1 (20)	1 (33)	0 (0)	6 (55)	2 (29)	8 (62)	4 (36)	6 (32)	4 (33)	4 (44)	1 (14)	15 (94)	14 (54)	5 (71)	3 (60)	0 (0)	2 (22)									