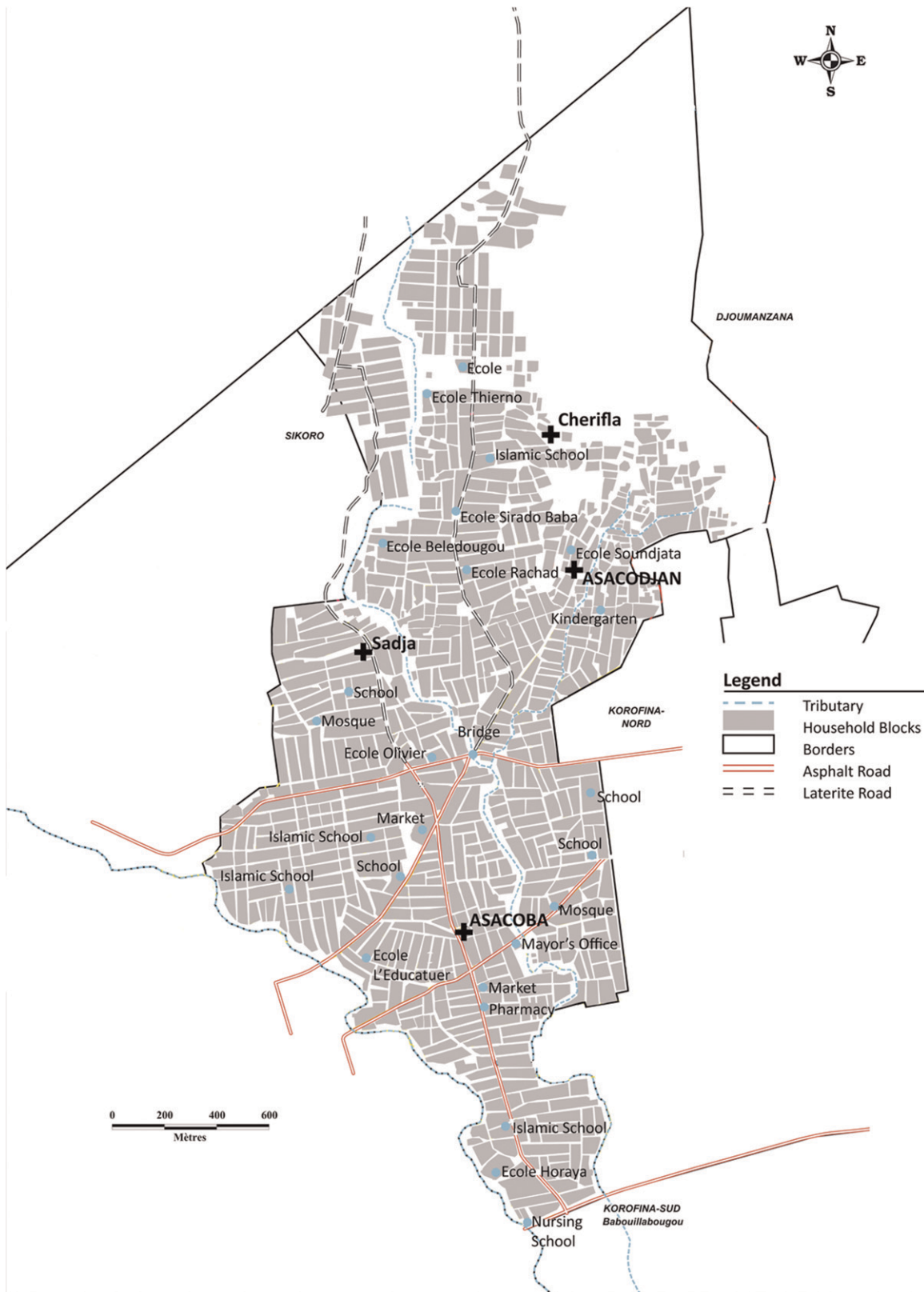




SUPPLEMENTAL FIGURE 1. Map of Djikoroni-para quartier, showing the Sentinel Health Centers (signified by cross) selected for the GEMS.



SUPPLEMENTAL FIGURE 2. Map of Banconi quartier, showing the Sentinel Health Centers (signified by cross) selected for the GEMS.

SUPPLEMENTAL TABLE 1

Perceived susceptibility associated with seeking care from a traditional healer among children < 5 years old with reported diarrheal illness within the previous 14 days (N = 96)

Variable	Sought care with traditional healer		OR (95% CI)
	n/N	Percent	
Caretaker knows a child who died of the illness			
Simple loose/watery diarrhea			
Yes	21/42	51	0.66 (0.27–1.59)
No	32/54	61	0.66 (0.27–1.59)
Rice/watery/cholera-like illness			
Yes	40/73	55	0.78 (0.28–2.18)
No	13/23	61	0.78 (0.28–2.18)
Bloody diarrhea			
Yes	34/61	59	1.25 (0.50–3.11)
No	19/35	53	1.25 (0.50–3.11)
Caretaker knows ways that prevent children from getting any of the following types of diarrhea			
Simple loose/watery			
Yes	25/46	56	0.94 (0.39–2.26)
No	28/50	58	0.94 (0.39–2.26)
Bloody			
Yes	23/44	54	0.82 (0.34–1.98)
No	30/52	60	0.82 (0.34–1.98)
Rice/watery/cholera-like illness			
Yes	29/49	54	0.81 (0.34–1.96)
No	24/47	59	0.81 (0.34–1.96)
Caretaker looks for these signs of dehydration			
Dry mouth			
Yes	27/41	67	2.20 (0.89–5.47)
No	26/55	48	2.20 (0.89–5.47)
Decreased urination			
Yes	11/21	58	1.07 (0.38–3.06)
No	42/75	57	1.07 (0.38–3.06)
Sunken eyes			
Yes	29/48	62	1.46 (0.60–3.52)
No	24/48	52	1.46 (0.60–3.52)
Wrinkled skin			
Yes	16/32	54	0.85 (0.33–2.16)
No	37/64	58	0.85 (0.33–2.16)
Lethargy			
Yes	29/48	65	1.95 (0.80–4.71)
No	24/48	49	1.95 (0.80–4.71)
Coma/loss of consciousness			
Yes	9/12	85	5.16 (1.24–1.49)
No	44/84	53	5.16 (1.24–1.49)
Thirsty			
Yes	31/48	67	2.31 (0.94–5.67)
No	22/48	47	2.31 (0.94–5.67)

SUPPLEMENTAL TABLE 2

Perceived severity associated with seeking care from a traditional healer among children < 5 years old with reported diarrheal illness within the previous 14 days ($N = 96$)

Variable	Sought care with traditional healer		OR (95% CI)
	<i>n/N</i>	Percent	
Caretaker believes that these types of diarrhea can lead to serious harm or death			
Mucus/pus in stool			
Yes	30/52	62	1.63 (0.68–3.95)
No	23/44	50	1.63 (0.68–3.95)
Rice/watery			
Yes	39/69	58	1.21 (0.46–3.18)
No	14/27	54	1.21 (0.46–3.18)
Bloody			
Yes	39/72	55	0.71 (0.26–1.99)
No	14/24	63	0.71 (0.26–1.99)
Large number of stools per day			
Yes	22/45	50	0.61 (0.25–1.47)
No	31/51	63	0.61 (0.25–1.47)
Fever with diarrhea			
Yes	30/54	58	1.14 (0.47–2.76)
No	23/42	55	1.14 (0.47–2.76)
Vomiting with diarrhea			
Yes	37/68	58	1.10 (0.42–2.90)
No	16/28	55	1.10 (0.42–2.90)
Dehydration			
Yes	32/55	62	1.69 (0.69–4.09)
No	21/41	45	1.69 (0.69–4.09)
Maximum number of stools per day			
3–6	46/79	60	0.61 (0.17–2.27)
> 7	6/13	48	0.61 (0.17–2.27)
Stool characteristics during diarrheal illness			
Blood in stool			
Yes	9/15	61	1.22 (0.36–4.20)
No	44/81	56	1.22 (0.36–4.20)
Mucus/pus in stool			
Yes	40/65	64	2.48 (0.96–6.41)
No or do not know	13/31	42	2.48 (0.96–6.41)
Rice/watery stool			
Yes	10/18	58	0.99 (0.32–3.07)
No	43/77	58	0.99 (0.32–3.07)
Signs of dehydration			
Decreased urination			
Yes	24/33	76	3.46 (1.27–9.42)
No	29/63	48	3.46 (1.27–9.42)
Very thirsty			
Yes	46/83	57	1.35 (0.38–4.85)
No	6/12	50	1.35 (0.38–4.85)
Dry mouth			
Yes	26/42	62	1.19 (0.47–3.00)
No	26/48	58	1.19 (0.47–3.00)
Sunken eyes			
Yes	31/56	58	0.99 (0.40–2.42)
No	22/39	58	0.99 (0.40–2.42)
Wrinkled skin			
Yes	14/26	53	0.79 (0.29–2.16)
No or do not know	39/70	58	0.79 (0.29–2.16)
Signs of severe disease			
Fever			
Yes	43/79	56	0.81 (0.26–2.57)
No	10/17	61	0.81 (0.26–2.57)
Vomiting			
Yes	17/27	72	2.38 (0.87–6.47)
No	36/69	52	2.38 (0.87–6.47)
Lethargy			
Yes	34/58	63	1.79 (0.72–4.46)
No	17/35	48	1.79 (0.72–4.46)
Coma/loss of consciousness			
Yes	2/4	50	0.76 (0.08–6.96)
No	49/89	57	0.76 (0.08–6.96)

SUPPLEMENTAL TABLE 3

Perceived benefits associated with seeking care from a traditional healer among children < 5 years old with reported diarrheal illness within the previous 14 days (*N* = 96)

Variable	Sought care with traditional healer		OR (95% CI)
	<i>n/N</i>	Percent	
Caretaker thinks that there is a treatment that works best for			
Simple loose/watery diarrhea			
Yes	45/85	55	–
No	4/4	100	–
Bloody diarrhea			
Yes	45/84	56	0.70 (0.06–7.83)
No	3/4	65	0.70 (0.06–7.83)
Rice watery/cholera-like illness			
Yes	44/84	55	0.55 (0.05–5.60)
No	4/5	69	0.55 (0.05–5.60)
Caretaker thinks ORS works well to treat diarrhea			
Yes	51/91	58	1.37 (0.08–23.9)
No	1/2	50	1.37 (0.08–23.9)
Caretaker thinks vaccines are important to their child			
Yes	53/96	57	–
No	0	43	–

SUPPLEMENTAL TABLE 4

Perceived barriers associated with seeking care from a traditional healer among children < 5 years old with reported diarrheal illness within the previous 14 days (*N* = 96)

Variable	Sought care with traditional healer		OR (95% CI)
	<i>n/N</i>	Percent	
Caretaker thinks that the highest cost of medical care is for			
Simple loose/watery diarrhea	3/8	36	–
Bloody diarrhea	23/45	53	2.02 (0.36–11.31)
Rice watery/cholera-like illness or do not know	27/43	64	3.09 (0.55–17.47)

SUPPLEMENTAL TABLE 5

Other sociodemographic factors not fitting into the Health Belief Model framework associated with seeking care from a traditional healer among children < 5 years old with reported diarrheal illness within the previous 14 days (*N* = 96)

Variable	Sought care with traditional healer		OR (95% CI)
	<i>n/N</i>	Percent	
Child's age group (months)			
0–11	21/35	60	1.13 (0.37–3.45)
12–23	20/40	50	0.75 (0.26–2.22)
24–59	12/21	57	–
Age (months)	–	–	–
Child sex			
Male	25/51	50	1.87 (0.77–4.56)
Female	28/45	65	1.87 (0.77–4.56)
Children < 60 months old living in the household	–	–	0.94 (0.80–1.12)
Child's household wealth ranking quintiles			
First	14/22	66	2.21 (0.56–8.65)
Second	10/17	55	1.39 (0.32–8.66)
Third	14/25	58	1.54 (0.41–5.76)
Fourth	7/14	53	1.29 (0.28–5.98)
Fifth	8/18	47	–
Relationship of the caretaker interviewed to the child			
Parent	51/92	37	2.32 (0.28–19.5)
Other relationship	2/4	58	2.32 (0.28–19.5)
Does child's mother live in the household			
Yes	52/94	57	3.25 (0.19–56.6)
No	1/2	29	3.25 (0.19–56.6)
Does child's father live in the household			
Yes	40/76	56	0.80 (0.26–2.45)
No	13/20	61	0.80 (0.26–2.45)
Caretaker education status			
None	19/41	49	–
Religious only	16/25	64	1.87 (0.61–5.72)
Less than primary	9/14	67	2.13 (0.55–8.30)
Completed primary, secondary, or post-secondary	9/16	55	1.30 (0.37–4.55)

SUPPLEMENTAL TABLE 6

Risk factors for diarrheal illness among children < 5 years old in the Healthcare Utilization and Attitude Survey, Bamako, 2007 (N = 1,000)

Variable	Any diarrhea		OR (95% CI)
	n/N	Percent	
Child's age group (months)			
0-11	44/246	18	3.05 (1.82-5.11)
12-23	56/363	15	2.56 (1.57-4.18)
24-59	26/391	7	
Age (months)	-	-	0.96 (0.95-0.97)
Child sex			
Male	68/492	13	0.76 (0.51-1.13)
Female	58/508	10	0.76 (0.51-1.13)
Children < 60 months old living in the household	-	-	1.05 (0.96-1.14)
Child's household wealth ranking quintiles			
First to second	52/404	12	0.78 (0.46-1.31)
Third	29/196	15	
Fourth to fifth	45/400	10	0.65 (0.38-1.11)
Relationship of the caretaker interviewed to the child			
Parent	121/926	5	3.03 (1.1-8.36)
Other relationship	5/74	12	3.03 (1.1-8.36)
Does the child's mother live in the household?			
Yes	123/961	12	2.37 (0.64-8.74)
No	3/33	6	2.37 (0.64-8.74)
Does the child's father live in the household?			
Yes	97/822	11	0.81 (0.50-1.32)
No	29/178	14	0.81 (0.50-1.32)
Caretaker education status			
None	53/478	10	
Religious only	32/305	14	1.47 (0.88-2.44)
Less than primary	21/148	15	1.51 (0.85-2.71)
Completed primary, secondary, or post-secondary	20/169	12	1.20 (0.67-2.15)
Caretaker believes that she knows how to prevent			
Simple loose/watery diarrhea			
Yes	63/628	9	0.51 (0.34-0.77)
No	63/372	16	0.51 (0.34-0.77)
Bloody diarrhea			
Yes	62/560	10	0.67 (0.45-1.00)
No	64/440	14	0.67 (0.45-1.00)
Rice/watery cholera-like illness			
Yes	65/568	10	0.72 (0.48-1.08)
No	61/432	14	0.72 (0.48-1.08)
What caretaker thinks are the best ways to prevent diarrhea			
Proper disposal of human waste			
Yes	35/274	11	0.94 (0.60-1.47)
No	91/726	12	0.94 (0.60-1.47)
Nutrition			
Yes	44/342	12	1.03 (0.68-1.58)
No	82/658	12	1.03 (0.68-1.58)
Breastfeeding			
Yes	10/102	9	0.70 (0.33-1.45)
No	116/898	12	0.70 (0.33-1.45)
Medication			
Yes	18/178	10	0.75 (0.42-1.32)
No	108/822	12	0.75 (0.42-1.32)
Vaccines			
Yes	9/138	5	0.35 (0.16-0.75)
No	117/862	13	0.35 (0.16-0.75)
Washing hands			
Yes	29/252	10	0.81 (0.51-1.31)
No	97/748	12	0.81 (0.51-1.31)
Clean food or water			
Yes	43/459	9	0.55 (0.36-0.84)
No	83/541	15	0.55 (0.36-0.84)
Caretaker thinks that there is treatment that works best to treat			
Simple loose/watery diarrhea			
Yes	113/931	11	0.77 (0.23-2.58)
No	4/21	14	0.77 (0.23-2.58)
Bloody diarrhea			
Yes	109/898	11	0.56 (0.18-1.68)
No	5/22	19	0.56 (0.18-1.68)

(continued)

SUPPLEMENTAL TABLE 6
Continued

Variable	Any diarrhea		OR (95% CI)
	<i>n/N</i>	Percent	
Rice/watery cholera-like illness			
Yes	109/898	12	0.66 (0.22–1.95)
No	5/24	17	0.66 (0.22–1.95)
Caretaker thinks ORS works well to treat diarrhea			
Yes	117/950	12	0.26 (0.07–1.02)
No	3/12	33	0.26 (0.07–1.02)
Caretaker thinks simple loose/watery diarrhea is more dangerous than bloody and cholera-like diarrhea or does not know			
Yes	7/36	18	1.70 (0.68–4.3)
No	119/964	12	1.70 (0.68–4.3)
Caretaker thinks vaccines are important to the child			
Yes	126/1,000	12	–
No	0/0	–	–

OR = odds ratio; 95% CI = 95% confidence interval; ORS.