

Supplement

Table S1. Distribution of sampled households (N=7389) and enumeration areas (EAs) by region, Ghana.

Region	Percentage of national population	Proportional allocation of selected EAs	Adjusted allocation of selected EAs	Count of urban EAs	Count of rural EAs	Adjusted number of households selected per EA	Households in urban EAs	Households in rural EAs
Western	6.8	25	24	12	12	480	240	240
Central	8.9	33	31	15	16	620	300	320
Greater Accra	16.3	60	36	32	4	720	640	80
Volta	6.1	23	21	8	13	420	160	260
Eastern	10.7	40	34	18	16	680	360	320
Ashanti	19.4	72	37	27	10	740	540	200
Western North	2.9	11	18	4	14	360	80	280
Ahafo	2.0	7	18	7	11	360	140	220
Bono	3.7	14	19	10	9	380	200	180
Bono East	3.7	14	18	7	11	360	140	220
Oti	2.5	9	18	5	13	360	100	260
Northern	6.3	23	22	7	15	440	140	300
Savannah	1.9	7	18	7	11	360	140	220

North East	1.9	7	18	7	11	360	140	220
Upper East	4.2	16	20	6	14	400	120	280
Upper West	2.8	11	18	5	13	360	100	260
TOTAL	100	370	370	177	193	7400	3540	3860

Table S2. Ghana population estimates for 2020 by age group and gender from the World Bank.⁴⁶

	Female	Male	Total
Young (Ages 0-14)	5,973,172	6,120,742	12,093,914
Working age (Ages 15-64)	9,561,093	9,429,488	18,990,581
Elderly (Ages 65 and above)	594,821	501,085	1,095,906

Table S3. Count of households that reported at least one burn in the previous year (N = 114) by total number of documented burns, Ghana.

Total number of documented burns	n (%)
1	103 (90.4)
2	8 (7.0)
3	3 (2.6)

Table S4. Perception of LPG safety by level of experience with LPG among all survey respondents (N=7389), Ghana. This table presents the percentage of participants who disagree, are neutral, or agree with the following statement: “Regular LPG use increases the risk of accidents.”

	Disagree	Neutral	Agree
No LPG use	25%	8%	67%
Low LPG use	35%	10%	55%

High LPG use	40%	15%	44%
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Table S5. Stove stacking patterns among all survey respondents (N=7389), Ghana.

	No cooking-related burns in past 12 months (N=7275)	At least one cooking-related burn in past 12 months (N=114)
Primary cooking stove		
N	7162	114
LPG	1441 (20.1%)	9 (7.9%)
Wood	3484 (48.6%)	59 (51.8%)
Charcoal	2212 (30.9%)	46 (40.4%)
Other	25 (0.3%)	0 (0.0%)
Secondary cooking stove		
N	2641	60
LPG	429 (16.2%)	8 (13.3%)
Wood	328 (12.4%)	14 (23.3%)
Charcoal	1814 (68.7%)	37 (61.7%)
Other	70 (2.7%)	1 (1.7%)
Tertiary cooking stove		
N	220	5
LPG	83 (37.7%)	3 (60.0%)
Wood	56 (25.5%)	0 (0.0%)
Charcoal	36 (16.4%)	0 (0.0%)
Other	45 (20.5%)	2 (40.0%)

Table S6. Consequences of documented burns among survey respondents (N=7389) by age group, Ghana.

	Adult (N=72)	Child (N=57)	Total (N=129)	p-value
Complete interruption of normal activity				0.285
No	53 (73.6%)	37 (64.9%)	90 (69.8%)	
Yes	19 (26.4%)	20 (35.1%)	39 (30.2%)	
Return to normal activity				0.277
No	0 (0.0%)	2 (3.5%)	2 (1.6%)	
Yes, but only partially	4 (5.6%)	3 (5.3%)	7 (5.4%)	

Yes, fully	68 (94.4%)	52 (91.2%)	120 (93.0%)	
Impairment				0.194
No	63 (87.5%)	46 (80.7%)	109 (84.5%)	
Yes	2 (2.8%)	6 (10.5%)	8 (6.2%)	
Happened in the past 6 months	7 (9.7%)	5 (8.8%)	12 (9.3%)	

BURN MODULE

These questions are about cooking-related burns in the people now living in your household. (*Note to interviewer: If necessary, explain again what is meant by the word "burn" and list some examples.*)

6.3.1. Was anyone in this household burned in the past year? (*Serious enough to need some kind of medical treatment or to change their 'normal' activity for one or more days. For example: did not go to work or school, could not carry out household chores; did not play/feed normally if they were a young child or baby.*)

No...0 Yes...1

If the answer is no, skip to the Blood Pressure section.

Section A: HOUSEHOLD MEMBERS

6.3.2. Tell us about the adult from your household who had the most severe burn in the last year. [*If no burn events in adults household members in the past year, skip to Question 6.3.3*]

Relationship to respondent 01: Self 02: Spouse 03: Son / daughter 04: Daughter-in-law 05: Grandchild 06: Parent 07: Parent-in-law 08: Co-wife 09: Brother/Sister 10: Other relative/Guest 11: Not related/Guest	Age (years) [Years & months if <5 years]	Gender 1: Male 2: Female 3:Third gender
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[*Now, ensure to complete Sections B and C for the person identified above. Once you have completed sections B and C for this person, please move on to 6.3.3*]

6.3.3. Tell us about the child from your household who had the most severe burn in the last year. [*If no burn events in children in the past year, skip to Blood pressure section.*]

Relationship to respondent 01: Self 02: Spouse 03: Son / daughter 04: Daughter-in-law 05: Grandchild	Age (years) [Years & months if <5 years]	Gender 1: Male 2: Female 3:Third gender
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06: Parent 07: Parent-in-law 08: Co-wife 09: Brother/Sister 10: Other relative/Guest 11: Not related/Guest		
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[Now, ensure to complete Sections B and C for the person identified above.]

Section B: BURN INJURY EVENT				
Q.N.	Question	Response	Code	Skip
6.3.4 Activity- burn injury	What was the main process that led to the burn injury?	Cooking..... 01 Heating/warming of rooms or body..... 02 Repairing equipment or electrical wiring.. 03 Lighting..... 04 Refueling/checking fuel..... 05 Alcohol production..... 06 Burning of waste/bonfire..... 07 Smoking..... 08 Bathing/ washing..... 09 Rescuing another person with burn injury.. 10 Motor vehicle accident 11 Building fire..... 12 Other (specify)..... 96 Don't know..... 98 Refused..... 99		If answer IS NOT 01, End burn section here. To proceed: - if currently getting responses for an adult, return to 6.3.3. - if currently getting responses for a child, move on to the Blood Pressure section.
6.3.5 Fuel source- burn	What fuel was in use at the time the burn occurred?	Wood, dung, leaves, rubbish, straw, thatch..... 01 Coal, charcoal, briquette..... 02 Kerosene..... 03 LPG..... 04 Biogas..... 05 Other (specify)..... 96 Don't know 98 Refused..... 99		

6.3.6 Stove height	Was the stove resting on the ground?	Yes..... 01 No..... 02 Don't know..... 98	
6.3.7 Accidental movement	Was an accidental movement involved in causing the burn (e.g. fall, spill, clothing or hair catching fire, getting too close to fire or hot object)?	Yes..... 01 No..... 02 Don't know..... 98 Refused..... 99	
6.3.8 Equipment problem	Did an equipment problem contribute to the burn (e.g. gas leak, kerosene stove explosion, uncontrolled flames)?	Yes (Specify)..... 01 No..... 02 Don't know..... 98 Refused..... 99	
6.3.9 Unsafe activity	Was a person doing something unsafe/risky when the burn happened (e.g. electrical repairs, mishandling a pressure cooker, refueling stove while stove alight, and mixing water in hot oil to check hotness of oil)?	Yes (Specify)..... 01 No..... 02 Don't know..... 98 Refused..... 99	
6.3.10 Ignition of clothing	Did the person's clothing catch fire?	Yes..... 01 No..... 02 Don't know..... 98 Refused..... 99	

[Only proceed with section C if the injury was cooking related (refer to 6.3.4); otherwise skip to blood pressure section.]

Section C: IMPACT OF INJURY – IMPAIRMENT AND DISABILITY				
Q.N.	Question	Response	Code	Skip
6.3.12 Effect on usual activities (WHO 1.5.1)	As a result of the injury, did the injured person/you suffer any impairment that prevented him/her from performing his/her usual activities (e.g. going to work or school, doing housework, playing etc.) for one or more days?	Yes..... No..... Don't know..... Refused.....	01 02 98 99	
6.3.13 Return to normal activity (WHO 1.5.2)	Since the injury occurred, has/have the injured person/you been able to return to his/her normal activities?	Yes, fully..... Yes, but only partially..... No..... Don't know..... Refused.....	01 02 03 98 99	If no, skip 6.3.13.a 6.3.13.b
6.3.13.a	If yes, fully, then after how long?	months & days		
6.3.13.b	If yes, but only partially, then after how long?	months & days		
6.3.14 Physical disability (WHO 1.3.1)	If the injury happened more than 6 months ago Did the injured person/you suffer a physical disability as a result of being injured?	Yes..... No..... Injury happened less than 6 months ago..... Don't know..... Refused.....	01 02 08 98 99	

6.3.15 Nature of disability (Adapted from WHO 1.3.2)	In what ways was the injured person/you physically disabled? Multiple answers possible.	Unable to use hand or arm.....	01
		Difficulty using hand or arm.....	02
		Unable to use legs.....	03
		Difficulty to use legs/Walk with a limp.....	04
		Loss of hearing.....	05
		Loss of vision.....	06
		Weakness or shortness of breath.....	07
		Inability to remember things.....	08
		Inability to chew food.....	09
		Other (specify).....	96
		Don't know.....	98
		Refused.....	99

[Return to question 6.3.2 and 6.3.3 to ensure that sections B and C were filled for both one adult and one child if applicable.]