Note: This is Online Supplementary Document 1 of Obeng-Nkrumah N, Tawiah-Abrokwa GD, Owusu E, et al. Role of CTX-M-15 gene in spread of extended-spectrum beta-lactamases among immunocompetent patients in Ghana. Afr J Lab Med. 2023;12(1), a2135. https://doi.org/10.4102/ajlm.v12i1.2135

Supple	ementary data 1: Data collection	on tool (Accra, Ghana, 2023)
		Data Collection Tool
	Towards the de	etermination of risk factors for ESBL faecal carriage
IN'	TESTINAL CARRIAGE W	TTH EXTENDED-SPECTRUM BETA-LACTAMASE
	PRODUCING ENTEROBA	ACTERIA INIMMUNOCOMPETENT PATIENTS
	Participa	nt Data Collection Instrument
Date:.		Site
th Patient	e questions. Many questions will as	participation is voluntary and you may stop at any time while answering sess your knowledge, behaviors, and the environment you live.
Q 1. Pe	rsonal information:	
Q1.1	Name:	
Q1.2	Date of birth:	Date of admission:
Q1.3	Gender:	Female: Male:
	Ward name:	
Q1.4	Number of beds:	
	Number of patients in ward:	
	Number of healthcare staff:	
	Flush toilet in ward:	
		Yes No : if 'No' indicate type
	Indicate number	

	Source of water: Runnin	g tap 🔲 ; Veronio	a bucket	s 🔲 ; Otl	ners (specify).	
Q1.5	Admitted from home current h	ospital anot	ther heal	thcare faci	lity 🔲	
Q1.6	Where do you live currently?				, <u> </u>	
Q1.6	GPS Address		_			
	How long?					
	S					
Q2. Qu	estions of underlying diseases:					
Do you	suffer from any of the following disease:	s?				
Admit	ting diagnosis:		Yes:	No:	I do not k	00M;
Admit	ung diagnosis.		163.	NO.	T do not k	ilow.
Q2.1	Haematological disorders:					
Q2.2	Respiratory infections:					
Q2.3	Diarrhoea:					
	Diabetes:					
Q2.4	Diabetes.					
Q2.5	Cancer:					
Q2.6	HIV/AIDS:					
Q2.7	Liver cirrhosis:					
Q2.8	Alcoholism:					
Q2.9	Infections since admission					
Q2.10	Surgery since admission					
Q2.11	Functional status: Need help of any so	ort				
Q2.12	Immunosuppression (of any type)					
	Steroids					
	Chemotherapy in past 3 months					
	Radiation in past 3 months Others (specify):					
Q2.13						
Q3. Qu	estions of underlying patient's lifestyle:					
Q3.1	Alcohol hand rubs/sanitizer			Ye	S	No

	If yes, indicate how often you use this in a day:		
	Once: ; Twice: ; Thrice: ; > Thrice: ; as often as possible:		
Q3.2	Do you wash your hands?	Yes	No
	How often do you wash your hands.		
	Once ; Twice ; Thrice; > Thrice; as often as possible		
		Yes	No
Q3.3	Employment		
		Yes	No
Q3.4	Current smoking		
		Yes	No
Q3.5	Alcoholism		
	Education	Yes	No
Q3.6	Indicate status: Primary ; Secondary; Tertiary None		l
Q3.6	Profession/Occupation:		
Q3.6	Have travel overnight outside your home in past one year		
Q3.7	Have travel outside Ghana in the past year		
Q3.8	Number of person in the household		
Q3.9	Toilet facility in household		
3.10	Pipe borne water in household		
Q3.11	Do you have pets? Yes No		
Q3.12	If yes, which pets?	er	
Q3.13	How many?		
Q3.14	Do you have any other animals' aside pets?		
Q3.15	If yes, which animals? Goat Sheep Cow Chicken	Other	
Q3.16	How many?		

	Do you swim?				
	,	_			
Q3.19	How often do you come into contact with that waterbody in a week?				
	a. Once b. Twice c. Thrice d. More than thro	ee times			
Q3.20.	Do you handle raw meat? Yes No				
	f yes, how often do you handle meat weekly? . Once b. Twice c. Thrice d. More than three	e times			
Q3.22	Do you handle raw fish? Yes No				
Q3.23	f yes, how often do you handle fish weekly?				
	a. Once b. Twice c. Thrice d. More than thre	e times			
Q3.24	What are your sources of drinking water? Tap water Sachet water	er 🗌 Bottle	ed water		
	Bore hole Other				
Q3.25	How do you store your drinking water?	Bucket			
	Poly tank Other		<u> </u>		
Q3.26	Q3.26 How do you store your bathing water? Barrel Bucket Poly tank				
	Other				
Q3.27.	Do you have any relative or close relation working in the health sector?	Yes	☐ No		
Q4.History of hospitalization					
		Yes:	No:		
Q.4.1	Hospitalization in the past 1 year				
	Number of hospitalization				
	Total duration hospital stay				
		Yes:	No:		
Q.4.2	Invasive procedure of any type in past 1 year (endoscopy, gastroscopy, sigmoidoscopy, colonoscopy, etc)				

		Yes	No
Q.4.3	Presence of central vascular catheter		
		Yes	No
Q.4.4	Presence of peripheral vascular catheter		
	Presence of urinary catheter		
	Presence of intubation		
		Yes	No
Q.4.5	Use of medications that affect intestinal flora		
	Drugs that neutralize stomach acids		
	Proton pump inhibitors		
	H2 blockers		
		Yes	No
Q.4.6	Used antibiotics in last 3 months		
Q.4.7	Used antibiotics without prescription		
Q4.8	Indicate type of antibiotics used in last 3 months		
	Current antibiotics used		
	Specify antibiotics		
	Animal contact in the past 6 months		

Comments:		

Supplementary data 2. PCR primers and thermocycling conditions (Accra, Ghana, 2023)

Primer (target)	Primer sequences (5'-3')	T °C a	PCR cycles
TEM (918 bp)	FP:	63°C at 90	30
	GTATCCGCTCATGAGACAATAACCCTG	seconds	
	RP: CCAATGCTTAATCAGTGAGGCACC		
	Internal FP CCGGAGCTGAATGAAGCCAT		
	Internal RPCGTTGTTGCCATTGCTGCAG		
SHV (842 bp)	FP: CGC CTG TGT ATT ATC TCC CTG	63°C at 90	30
	TTAGCC	seconds	
	RP: TTG CCA GTG CTC GAT CAG CG		
	Internal FP : ACCATGAGCGATAACAGCGC		
	Internal RP: AAGCGCCTCATTCAGTTCCG		
OXA-2 (330 bp)	FP: GTTAACAGGGGCTTTGCAGG	63°C at 90	30
	RP: TGCACGCAGTATCCAGTTGC	seconds	
OXA-10 (655 bp)	FP: ATGAAAACATTTGCCGCATATGTA	63°C at 90	30
	RP: ACACCAGGATTTGACTCAGTTCC	seconds	
CTX-M-1(940 bp)	FP:	50 °C at 90	30
	GACAGACTATTCATGTTGTTAWTTC G	seconds	
	RP: CCGTTTCCSCTATTACAAA		
	Internal FP: GGACGATGTCACTGGCTGAG		
	Internal RP: TTTCGTCTCCCAGCTGTCGGG		
CTX-M-2 (253 bp)	FP: ACAGTTGGTGACGTGGCTTAAGG	50 °C for 90	30
•	RP: TCAGAAACCGTGGGTTACGA	seconds	
CTX-M-8/25/26	FP1: ACATCGCGTTAAGCGGAT	50 °C for 90	30
(690/346bp)	FP2: GCACGATGACATTCGGG	seconds	
	RP: AACCCACGATGTGGGTAGC		
CTX-M-9 (860bp)	FP: ATGGTGACAAAGAGAGTGCAACG	50 °C for 90	30
(17	RP: ATGATTCTCGCCGCTGAAGC	seconds	
	Internal FP: CAAATTGATTGCCCAGCTCG		
	Internal RP: AAACGTCTCATCGCCGATCG		

^a T, Annealing temperature; ^oC, degree celsius.