A Questionnaire Intended to Identify the Capacities and Weaknesses of Emergency Medical Systems for Victims of Road Traffic Incidents in the Greater Kampala Metropolitan Area

#### **Consent form**

**Research Title:** Risk Mapping of Road Traffic Incidents in Greater Kampala Metropolitan Area for Planning of Emergency Medical Services

I am (or representing) Balikuddembe Kimuli Joseph from the School of Public Health, Departme nt of Disaster and Emergency Health, Tehran University of Medical Science.

I am (he is) conducting a study on Risk Mapping of Road Traffic Incidents in Greater Kampala Metropolitan Area for Planning of Emergency Medical Services

# **Study purpose**

You are kindly requested to take part in this third phase of study whose purpose is mainly to; "Id entify the Capacities and Weaknesses of Emergency Medical Systems for Victims of Road Traffic Incidents in the Greater Kampala Metropolitan Area". Your feedback will be based on/ or used in developing the final report/ or paper aimed at improving the emergency medical services system in Kampala Metropolitan Area in particular and Uganda in general. Afterwards, the report/ or paper shall be disseminated to all the concerned policy makers and stakeholders for appropriate a ctions.

### Study procedure, recruitment of respondents and data collection

- 1. During the study you will be asked several questions and you are free not to answer to any que stion
- 2. Section **A** applies to all respondents, **B** only to victims involved in Road Traffic Incidents (RT Is) within the Greater Kampala Metropolitan Area (GKMA), **C** to experts on Emergency Medica 1 Service (EMS), and **D** applies to Emergency Medical Service key informants, policy makers and analysts
- 3. Permission was first sought from the concerned authorities to involve you (their subjects) in this study

4. For the victim (s), the interviewer before beginning to the interview process need to find-out w hether he/ she was involved in the road traffic crashes within Greater Kampala Metropolitan Are

a. If not the case, then should not proceed with the interview

6. The consent of the interviewee shall be acquired before the beginning of interview

7. An interview questionnaire designed in a semi-structure format with pre-identified questions

shall be used in acquiring answers/ or opinions of respondents

8. The interview will be conducted both in English and Luganda (common languages used in

Greater Kampala Metropolitan Area)

9. For victims of road traffic incidents who are unable to be interviewed, their caretakers can ans

wer to the questions on their behalf

10. In some circumstances at the end of the interview the patient(s), a simple token of quick reco

very shall be given to them

**Benefits of the study** 

There is no immediate benefit but the results of this study will be communicated to the Emergenc

y Medical Service providers and the policy makers to improve the planning of Emergency Medic

al Service all over the country. There is no financial benefit in participating in this study.

Risk /Discomfort

There are no risks posed to you since you will only be required to respond to some questions.

**Rights of participant** 

Participation in this study is voluntary and no penalty will be incurred for non-participation. You

are free to leave any part(s) which you are not conversant with or not applicable to you. You also

are free to withdraw from the study.

In case of any queries, please contact myself (Balikuddembe Kimuli Joseph) at 0772950519/075

2950519 OR Email: <u>jbalikuddembe.k@gmail.com</u>

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For any question(s) regarding the clearance and approval of this research you may contact the Ch air of Research and Ethics Committee - Mulago National Referral Hospital, Dr. Nakwagala Fred (0772-325869, Email: <a href="makwagala@yahoo.com">nakwagala@yahoo.com</a>)

# Confidentiality

Your identity will not be revealed in any presentations or publications of this study. The information obtained in the course of the study will only be communicated to no one else without your written explicit permission.

## **Statement of consent**

I have been informed about the purpose of the	nis study. I understand that que	estions will be asked of
me. Participation in this study is entirely vol	untary and refusal to participa	te will in no way affect
my treatment. I am free to withdraw from the	e study. I therefore sign below	as proof of my conser
t to participate in this study.		
		_
Name of participant	Signature/thumb print	Date

Name of participant	Signature/thumb print	Date
Name of investigator/Research Assistant	Signature/thumb print	Date

Witness Signature/ thumb print Date

Questionnaire ID
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A: Demographic information		
A.1	Age	
A.2	Gender	☐ Male ☐ Female
A.3	Place of living	
A.4	Marital status	☐ Married ☐ Widow/Widower ☐ Not married ☐ Others (specify)
A.5	Nationality	☐ Ugandan ☐ Others (specify)
A.6	Employment/ occupation	
A.7	Organization/ Agency	
A.8	Job title/ position	
A.8	Level of education	□ Diploma       □ Primary School         □ Bachelor's Degree       □ Secondary School         □ Master's Degree       □ None         □ Post Graduate       □ Others (specify)
A.9	Years of work	□ > 20  years $ □ 16 - 20  years $ $ □ 11 - 15  Years $ $ □ Have never worked $ $ □ 10 - 6  years $ $ □ 5 - 1  years $ $ □ < 1$
A.10	Any specialized training	
B: Vio	ctims of Road Traffic Incident	,
B.1	Where did you get involved in the road traffic crash?	☐ Within the city center ☐ Other areas within GKMA (specify)
B.2	What was the mode of the road traffic crash?	☐ Private car ☐ Boda − boda ☐ Heavy omnibus (Bus) ☐ Heavy truck

		☐ Light omnibus (Taxi) ☐ Others
B.3	When did the road traffic crash happen?	☐ Morning hours ☐ Evening hours
		☐ Afternoon hours ☐ Night hours
B.4	Who provided you with the initial care at the crash scene	☐ Lay people ☐ Ambulance
	(if you recall, and were not unconscious)?	☐ Police ☐ others (specify)
B.5	How long did the responder reach you at the scene	☐ Within 5 - 10 Minutes ☐ Beyond 1 hour
	following the accident (please estimate the time if you	☐ Within 30 - 1 Minutes ☐ Cannot recall
	can)?	
B.6	How were you transported from the crash scene to the	☐ Police vehicle ☐ Samaritan's car
	hospital or any medical unit?	☐ Ambulance ☐ Public transport
		☐ Others (specify)
B.7	Did you receive any treatment before reaching the	☐ Yes ☐ No
	hospital or any medical unit?	☐ Cannot recall
B.8	If Yes, what kind of treatment?	☐ Bandaging ☐ Fracture immobilization
		☐ Wound dressing ☐ Airway management
		☐ Others (specify)
B.9	What kind of injuries did you sustain and your body	☐ Head ☐ Abdominal and back
	parts that were affected following the crash?	□ Neck □ Limbs
		☐ Chest ☐ Others (specify)
C: En	ergency Care Specialists, First Responders, Rescuers or	Experts
C.1	Do you have a functional ambulance on standby?	☐ Yes ☐ No
C.2	How do you or your ambulance attendants receive	☐ Two way radio signal ☐ Samaritan notification
	notification about traffic accident?	☐ Toll free call ☐ Emergency call
		☐ Others (specify)
C.3	How does the ambulance dispatch team communicate	☐ Two way radio signal ☐ Mobile phone
	with drivers?	☐ Surveillance system ☐ Others (specify)

C.4	What kind of communication is used by the ambulance	☐ Two way radio signal ☐ Mobile phone
	team communicate while transporting the victim?	☐ Surveillance system ☐ Others (specify)
C.5	What type of ambulances do you use in transporting the	☐ Basic life support (BLS) ambulances
	victims of RTIs?	☐ Intermediate life support (ILS) ambulances
		☐ Advanced life support (ALS) ambulances
		☐ Others (specify)
C.6	How many ambulances does your institution or company	□ 1 - 3 □ 6 - 10
	own?	□ 4 - 5 □ < 10
C.7	What are the qualification requirements of the	☐ BLS Certificate ☐ Degree Certificate
	ambulatory team?	☐ ALS Certificate ☐ Others (specify
C.8	How are your ambulances facilitated in terms of	☐ EMT personnel and BLS equipment
	communication equipment, personnel and medication?	☐ EMT personnel and ALS equipment
		☐ EMT personnel, ALS, BLS and communication
		equipment
		☐ Others (specify)
C.9	Is there any coordination between you and other key	☐ Yes (Specify)
	emergency responders during emergency response?	□ No
C.10	Is there any special advice to ambulance attendants when	☐ Yes (Specify)
C.10	Is there any special advice to ambulance attendants when en route victims?	☐ Yes (Specify) ☐ No
C.10 C.11		
	en route victims?	□ No
	en route victims?  What do you base on when deciding where to take	□ No □ Severity of injuries □ Patient's wish
	en route victims?  What do you base on when deciding where to take	☐ No ☐ Severity of injuries ☐ Patient's wish ☐ Services of recipient hospital ☐ Distance
C.11	en route victims?  What do you base on when deciding where to take victims of crash?	☐ No ☐ Severity of injuries ☐ Patient's wish ☐ Services of recipient hospital ☐ Distance ☐ Others (specify)
C.11	en route victims?  What do you base on when deciding where to take victims of crash?  Are there any radio channels or telephone contacts that	□ No □ Severity of injuries □ Patient's wish □ Services of recipient hospital □ Distance □ Others (specify)
C.11	en route victims?  What do you base on when deciding where to take victims of crash?  Are there any radio channels or telephone contacts that are held specifically for accidents or any other	□ No □ Severity of injuries □ Patient's wish □ Services of recipient hospital □ Distance □ Others (specify)
C.11	en route victims?  What do you base on when deciding where to take victims of crash?  Are there any radio channels or telephone contacts that are held specifically for accidents or any other emergencies?	□ No □ Severity of injuries □ Patient's wish □ Services of recipient hospital □ Distance □ Others (specify)
C.11	en route victims?  What do you base on when deciding where to take victims of crash?  Are there any radio channels or telephone contacts that are held specifically for accidents or any other emergencies?  Do you conduct triage in case of road traffic incidents	□ No □ Severity of injuries □ Patient's wish □ Services of recipient hospital □ Distance □ Others (specify)
C.9	Is there any coordination between you and other key emergency responders during emergency response?	☐ Yes (Specify)
<b>G</b> 0		
		☐ Others (specify)
		equipment
		*
		☐ EMT personnel, ALS, BLS and communication
		☐ EMT personnel, ALS, BLS and communication
	communication equipment, personner and medication:	* * *
	communication equipment, personnel and medication?	☐ EMT personnel and ALS equipment
C.0	•	• • •
C.8	How are your ambulances facilitated in terms of	☐ EMT personnel and BLS equipment
C. /	•	
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C.6		
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	VICTIMS OF RT IS:	**
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C.5	What type of ambulances do you use in transporting the	☐ Basic life support (BLS) ambulances
C 5	What type of ambulances do you use in transporting the	☐ Basic life support (BLS) ambulances
C.5	What type of ambulances do you use in transporting the	☐ Basic life support (BLS) ambulances
	tour communication while training order (see the	
	team communicate while transporting the victim?	☐ Surveillance system ☐ Others (specify)
	team communicate while transporting the victim?	☐ Surveillance system ☐ Others (specify)
C. I	·	☐ I wo way radio signal ☐ Mobile phone
~· ·	What kind of communication is used by the ambulance	☐ Two way radio signal ☐ Mobile phone
<b>∵.</b> .	What kind of communication is used by the ambulance	☐ Two way radio signal ☐ Mobile phone
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		**
C.5	What type of ambulances do you use in transporting the	☐ Basic life support (BLS) ambulances
C 5	What type of ambulances do you use in transporting the	Designific current (DLC) embulances
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C.5	What type of ambulances do you use in transporting the	☐ Basic life support (BLS) ambulances
C.5	What type of ambulances do you use in transporting the	☐ Basic life support (BLS) ambulances
C.5	What type of ambulances do you use in transporting the	☐ Basic life support (BLS) ambulances
C.5	What type of ambulances do you use in transporting the	☐ Basic life support (BLS) ambulances
C.5	What type of ambulances do you use in transporting the	☐ Basic life support (BLS) ambulances
C.5	What type of ambulances do you use in transporting the	☐ Basic life support (BLS) ambulances
C 5	What type of ambulances do you use in transporting the	☐ Basic life support (BLS) ambulances
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C 5	What type of ambulances do you use in transporting the	Regic life support (RLS) ambulances
C 5	What type of ambulances do you use in transporting the	☐ Basic life support (RLS) ambulances
C.5	What type of ambulances do you use in transporting the	☐ Basic life support (BLS) ambulances
C.5	What type of ambulances do you use in transporting the	☐ Basic life support (BLS) ambulances
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C.5	What type of ambulances do you use in transporting the	☐ Basic life support (BLS) ambulances
C.5	What type of ambulances do you use in transporting the	☐ Basic life support (BLS) ambulances
C.S		**
	victims of RTIs?	☐ Intermediate life support (ILS) ambulances
	victims of RTIs?	☐ Intermediate life support (ILS) ambulances
C.5		**
C.5	What type of ambulances do you use in transporting the	☐ Basic life support (BLS) ambulances
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C 5	What type of ambulances do you use in transporting the	Dogie life support (DLC) embulances
C.5	what type of amoutances do you use in transporting the	Basic file support (BES) amoutances
	Telling of Italy.	**
		☐ Advanced life support (ALS) ambulances
		☐ Others (specify)
C.7	What are the qualification requirements of the	☐ BLS Certificate ☐ Degree Certificate
C. /	•	
C.7	What are the qualification requirements of the	☐ BLS Certificate ☐ Degree Certificate
C 7	What are the qualification requirements of the	DIS Contificate Doomes Contificate
	ambulatory team?	☐ ALS Certificate ☐ Others (specify
	communication equipment, personnel and medication?	* * *
	communication equipment, personnel and medication?	☐ EMT personnel and ALS equipment
	•	• • • •
C.8	How are your ambulances facilitated in terms of	☐ EMT personnel and BLS equipment
	ambulatory team?	ALS Certificate
C. /	•	
C.7	What are the qualification requirements of the	☐ BLS Certificate ☐ Degree Certificate
C.7	What are the qualification requirements of the	☐ BLS Certificate ☐ Degree Certificate
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C.7	What are the qualification requirements of the	☐ BLS Certificate ☐ Degree Certificate
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	ambulatory team?	☐ ALS Certificate ☐ Others (specify
	ambulatory team?	☐ ALS Certificate ☐ Others (specify
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C.8	How are your ambulances facilitated in terms of	☐ EMT personnel and BLS equipment
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	communication equipment, personnel and medication?	☐ EMT personnel and ALS equipment
		*
		☐ Others (specify)
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C.10		
	en route victims?  What do you base on when deciding where to take	☐ No ☐ Severity of injuries ☐ Patient's wish ☐ Services of recipient hospital ☐ Distance
C.11	en route victims?  What do you base on when deciding where to take victims of crash?  Are there any radio channels or telephone contacts that	□ No □ Severity of injuries □ Patient's wish □ Services of recipient hospital □ Distance □ Others (specify)
C.11	en route victims?  What do you base on when deciding where to take victims of crash?  Are there any radio channels or telephone contacts that are held specifically for accidents or any other	□ No □ Severity of injuries □ Patient's wish □ Services of recipient hospital □ Distance □ Others (specify)
C.11	en route victims?  What do you base on when deciding where to take victims of crash?  Are there any radio channels or telephone contacts that are held specifically for accidents or any other emergencies?	□ No □ Severity of injuries □ Patient's wish □ Services of recipient hospital □ Distance □ Others (specify)
C.11	en route victims?  What do you base on when deciding where to take victims of crash?  Are there any radio channels or telephone contacts that are held specifically for accidents or any other emergencies?	□ No □ Severity of injuries □ Patient's wish □ Services of recipient hospital □ Distance □ Others (specify)
C.11	en route victims?  What do you base on when deciding where to take victims of crash?  Are there any radio channels or telephone contacts that are held specifically for accidents or any other emergencies?  Do you conduct triage in case of road traffic incidents	□ No □ Severity of injuries □ Patient's wish □ Services of recipient hospital □ Distance □ Others (specify)
C.11	en route victims?  What do you base on when deciding where to take victims of crash?  Are there any radio channels or telephone contacts that are held specifically for accidents or any other emergencies?  Do you conduct triage in case of road traffic incidents	□ No □ Severity of injuries □ Patient's wish □ Services of recipient hospital □ Distance □ Others (specify)
C.11	en route victims?  What do you base on when deciding where to take victims of crash?  Are there any radio channels or telephone contacts that are held specifically for accidents or any other emergencies?  Do you conduct triage in case of road traffic incidents	□ No □ Severity of injuries □ Patient's wish □ Services of recipient hospital □ Distance □ Others (specify)
C.12	en route victims?  What do you base on when deciding where to take victims of crash?  Are there any radio channels or telephone contacts that are held specifically for accidents or any other emergencies?  Do you conduct triage in case of road traffic incidents involving mass causality victims?	□ No □ Severity of injuries □ Patient's wish □ Services of recipient hospital □ Distance □ Others (specify)
C.12	en route victims?  What do you base on when deciding where to take victims of crash?  Are there any radio channels or telephone contacts that are held specifically for accidents or any other emergencies?  Do you conduct triage in case of road traffic incidents involving mass causality victims?	□ No □ Severity of injuries □ Patient's wish □ Services of recipient hospital □ Distance □ Others (specify)
C.12	en route victims?  What do you base on when deciding where to take victims of crash?  Are there any radio channels or telephone contacts that are held specifically for accidents or any other emergencies?  Do you conduct triage in case of road traffic incidents involving mass causality victims?	□ No □ Severity of injuries □ Patient's wish □ Services of recipient hospital □ Distance □ Others (specify)

	vehicle from accident scene to hospital or any other	☐ Maneuver through diversion roads
	medical unit?	☐ Others (specify)
C.15	Who pays for the ambulance services offered?	□ Victim □ Government
		☐ Insurance ☐ Charity
		☐ Others (specify)
C.16	What kind of medical services are offered to the patient	☐ Basic Life Support
	while being transported in ambulance?	☐ Advanced Life Support
		☐ Others (specify)
C.17	How many daily calls do you receive and respond to?	□ < 5 □ 10 - 20
		$\square 5 - 10 \qquad \square > 20$
C.18	Is there specific period of time; area; or days when you	☐ Yes (Specify)
	receive increased calls for response to road traffic	□No
	crashes?	
C.19	How many cases of road traffic crashes do your	□ < 5 □ 10 - 20
	ambulance services attend to per day or per week?	$\square 5 - 10 \qquad \square > 20$
C.20	What are the most common cases of road traffic	☐ Private car ☐ 2/3 wheelers
	accidents you get called to respond to?	☐ Heavy omnibus (bus) ☐ Heavy truck
		☐ Light omnibus (taxi) ☐ Others (specify)
C.21	Do you provide regular training to your emergency	☐ Yes (Specify)
	responders or ambulance attendants and how often?	□ No
C.22	Is there any procedure taken to bypass the receiving	☐ Yes (Specify)
	hospitals or unit(s) where victim(s) are transported first	□No
	in case do not have necessary response services?	
C.23	What is the biggest challenge you face in ensuring	☐ Inappropriate equipment ☐ Poor roads
	effective pre-hospital EMS?	☐ Insufficient training ☐ Traffic jam
		☐ Funding ☐ Patient handing over
		☐ Others (specify)