Figure S1 Dat	ta extraction tool	
Date of data co	pllection: DD/MM	/ Y Y Y Y
Data enumerat	tor code:	
Data collection	point:	
□ Police	e station: (Specify name)	
□ Healt	h facility: (Specify name) _	
Level o	of facility:	
	1- National referral	
	2- Regional referral	
	3- District Hospitals	
	4- Health Center IV	
	5-Health Center III	
	6- Health Center II	
□ Morti	uary: (Specify name)	
□ Insura	ance Firm: (Specify)	
□ Other	(Specify)	
District:	(Drop down list	
Form 1: Crash		
C1	Crash identifier:	
		District Code - Crash Code DD/MM/YYYY
C2	Date of traffic crash	DD/MM/YYYY
С3	Day of week for traffic crash	
C4	Time of traffic crash (24hrs)	H H: M M (24hr)
LOCATION O	F TRAFFIC CRASH	
C5	District	
C6	Sub-county	
C7	Village (LC I)	
		

C8	Proximity of crash to	1. Within Town
Co	town (Township)	2. Outside town
C9	Enter name of	2. Outside town
	Town/Nearest Town	
C10	Distance from nearest	KM
	town	
C11	Name of road where the	
	crash occurred	
C12	Type of road where crash	1. Murram road
	occurred	2. Tarmac road
		99. Unknown
C13	Road surface	1. Wet
		2. Dry
C1.4	D 1 11/1	99. Unknown
C14	Road condition	1. In good (or normal) Repair
		2. In bad repair 99. Unknown
C15	Class of roadway whom	1. Highway
C13	Class of roadway where the crash occurred	2. Urban road, two way
	the crash occurred	3. Urban road, one way
		4. Road outside a built-up area
		5. Restricted road
		6. Other
		99. Unknown
C16		Round about
		2. Road junction
		3. Walkway
	Spot where crash	4. designated pedestrian crossing (e.g. Zebra crossing,
	happened	bridge)
		5. Open road stretch
		6. Other 99. Unknown
C17		Crash with pedestrian
CII		2. Crash with a Motorcycle
		3. Crash with parked vehicle
		4. Crash with fixed obstacle e.g. tree, post, fence, etc.
	Crash type	5. Crash with Non-fixed obstacle
		6. Crash with animal
		7. Single vehicle crash/non-collision
		8. Crash with two or more vehicles
		9. Other
C18	Number of vehicles	
	involved (If 8 selected	
	above)	
VEHICLE D	JEODM A TION	
VEHICLE IN Vehicle_id	NFORMATION	
veincie_iu	Vehicle number	(Numeric)
C19		1. Motor cars
		2. Motorcycle
	What type of Vehicle was	3. Pedal cycle (e.g Bicycle)
	this?	4. Dual Purpose vehicle (e,g Double cabins)
	uns:	5. Light omnibus (e.g Taxi)
		6. Medium Omnibus (e,g Coaster)
		7. Heavy Omnibus (e.g Bus)

		T
		8. Light goods vehicle (e.g. Pick up)
		9. Medium goods (e.g. Canter, Dyna, etc.)
		10. Heavy goods vehicle (e.g. Lorries)
		11. Tankers and Trailers
		12. Engineering plant (e.g. Earth movers)
		13. Tractors
		14. Other
		99. Unknown
C20		1. Reversing
C20		1
		2. Parked
		3. Entering or leaving a parking position
		4. Slowing or stopping
		5. Taking off
	What was the vehicle	6. Waiting to turn
	doing before the crash	7. Turning
	occurred?	8. Changing lane
		9. Avoidance manoeuvre
		10. Overtaking vehicle
		11. Straight forward normal driving
		12. Other
		99. Unknown
C21		1. Fatal (at least one death)
C21		· · · · · · · · · · · · · · · · · · ·
		2. Serious (at least one person needed hospital care)
	Severity of crash	3. Minor (property damage, not injuries requiring
		hospital)
		99. Unknown
C22	How many people were	
	injured?	
C23	How many people died at	
	the crash site?	
C24		Govt Hospital
	Haaldh faailitu mhana	2. Health center
	Health facility where	3. Private Hospital / Clinic
	victims were taken	4. Other
		99. Unknown
C25	Name of health facility to	
020	which victims were taken	
C26	District in which the	
C20	health facility is found.	(Drop down list)
	hearth facility is found.	
EACTORS	ACCOCIATED WITH THE DO	AD TDAEEIC CDACH
FACTORS	S ASSOCIATED WITH THE ROA	AD TRAFFIC CRASH
F1		1. Cloudy/mist
r I		
		2. Clear
		3. Light rain
		4. Heavy rain
	Weather conditions	5. Flooding
		6. Strong wind
		7. Other weather condition
		99. Unknown weather condition
F2	Lighting conditions	1. Daylight
		2. Darkness-no street lights
	1	

3. Darkness-with street lights on 4. Darkness-with poor street light 5. Twilight (Dusk /Dawn) 99. Unknown

Date of data collection: $DD/MM/YYYY$
Data enumerator code:
□ Police station: (Specify name)
□ Health facility: (Specify name)
Level of facility:
1- National referral
2- Regional referral
3- District Hospitals
4- Health Center IV
5-Health Center III
6- Health Center II
□ Mortuary: (Specify name)
□ Insurance Firm: (Specify)
□ Other (Specify)
District:(Drop down list)

Form 2: Individual level

P1	Unique identifier			
	omque identifier	Crash identifier /Individual number		
P2	Date of traffic crash	D D/ M M/ YYYY		
P2	Date of traffic crash	D DJ M MJ 1 1 1 1		
Р3	Age in completed years of the injured	[numeric] (Enter 999 if unknown)		
P4	Sex of the injured	1. Male		
	_	2. Female		
		99. Unknown		
P5 Type of road user injured 1. Pede		1. Pedestrian		
		2. Driver		
		3. Motorcyclist		
		4. Pedal cyclist		
		5. Passenger on motorcycle		
		6. Passenger in a private car		
		7. Passenger in commercial minibus or equivalent		
		8. Passenger in a bus		
		9. Passenger in heavy vehicle		
		10. Passenger on pick-up truck		
		11. Other (specify)		

		99. Unknown
P6	If pedestrian, type of activity before crash occurred	 Crossing road Walking/ Standing/ Running on the road Walking/ Standing/ Running by the road side Vending Playing on the road side Other (Specify) Unknown
P7	If Driver/motorcyclist, did they possess a driving permit	 Yes, Full License not expired Yes, Learners Permit Yes, Expired License No Unknown
P8	If driver, motorcyclist, which of these factors was suspected of them? (Check all that apply)	 Substance Use Alcohol use Fatigue Long hours driving Cellphone use None Other
P9	Tested for alcohol	1. Yes 2. No 99. Unknown
P10	Tested for other substance use	1. Yes 2. No 99. Unknown
P11	Personal protection measures used	1. Helmet 2. Seat belt 3. Reflector material 4. None 5. Not Applicable (No restraint could be used for type of vehicle e.g. tractor) 6. Others 99. Unknown
P12	Taken to health care facility	1. Yes 2. No 99. Unknown
P13	Hospital / health facility where taken	[name of hospital] (Enter unknown if applicable)
P14	Pre-hospital care given	1. First aid by Police 2. First aid by other agency 3. First aid by lay by-stander 4. None 99. Unknown
P15	Transport to hospital	1. Ambulance – Police

		2. Ambulance - other		
		3. Police patrol vehicle		
		4. Private car		
		5. Taxi		
		6. Bodaboda		
		7. Other (Specify)		
		99. Unknown		
P16	Length of stay in hospital	1 [in days] 999. Unknown		
110	Length of stay in nospital	in days] 777. Ohkilowii		
P17	Needed emergency operation on	1. Yes		
	admission	2. No		
		3. Unknown		
P18	Injury severity	Mild injuries		
		2. Moderate injuries		
		3. Severe injuries		
P19	Outcome	1. Died		
		2. Discharged		
		3. Undetermined		
		4. Referred to other health facility		
		99. Unknown		
P20	If died specify date of death			
		<u>D</u> <u>D</u> / <u>M</u> <u>M</u> / <u>Y</u> <u>Y</u> <u>Y</u> <u>Y</u>		
		(99/99/9999 if Unknown)		

Table S1 Distribution of individual injuries by additional characteristics

	Non-fatal injuries	Fatal injuries	Total
Characteristic	n=51519	n=7558	n=59077
		n (%)	
Data Source			
Police	15262(29.6)	5144(68.1)	20406(34.5)
Hospital	36245(70.4)	921(12.2)	37166(62.9)
Mortuary	-	1493(19.7)	1505(2.5)
Police region			
Aswa	1614(3.1)	184(2.4)	1798(3.0)
Busoga East	4636(9.0)	832(11)	5468(9.3)
Elgon	3021(5.9)	347(4.6)	3368(5.7)
Greater Masaka	3164(6.1)	614(8.1)	3778(6.4)
Kampala Metropolitan-East	6742(13.1)	1677(22.2)	8419(14.3)
Kampala Metropolitan-North	1124(2.2)	378(5.0)	1502(2.5)
Kampala Metropolitan-South	1192(2.3)	94(1.2)	1286(2.2)
Katonga	2039(4.0)	504(6.7)	2543(4.3)
Kigezi	2338(4.5)	373(4.9)	2711(4.6)
Mt. Moroto	6331(12.3)	293(3.9)	6624(11.2)
North Kyoga	1399(2.7)	361(4.8)	1760(3.0)
North West Nile	3068(6.0)	238(3.1)	3306(5.6)
Rwenzori	3705(7.2)	355(4.7)	4060(6.9)
Rwizi	7028(13.6)	752(9.9)	7780(13.2)
Savannah	1239(2.4)	287(3.8)	1526(2.6)
West Nile	2879(5.6)	271(3.6)	3150(5.3)
Road user			
Pedal Cyclist	1544(3.0)	305(4.0)	1849(3.1)
Passenger(vehicle)	3789(7.4)	621(8.2)	4410(7.5)
Motorcyclist	8762(17.0)	1357(18.0)	10119(17.1)
Passenger(motorcycle)	5328(10.3)	698(9.2)	6026(10.2)
Pedestrian	8388(16.3)	2455(32.5)	10843(18.4)
Driver	2004(3.9)	261(3.5)	2265(3.8)
Other	316(0.6)	50(0.7)	366(0.6)
Missing	21389(41.5)	1811(24)	23200(39.3)
Pre-hospital care given			
Received first aid	1408(2.7)	551(7.3)	1959(3.3)
Did not receive first aid	6381(12.4)	2909(38.5)	9290(15.7)
Missing	43731(84.9)	4098(54.2)	47829(81.0)
Transport used to the health facility			
Police ambulance	395(0.8)	407(5.4)	802(1.4)
Other ambulance	98(0.2)	11(0.1)	110(0.2)

Police patrol vehicle	1819(3.5)	1183(15.7)	3002(5.1)	
Private car	1861(3.6)	180(2.4)	2041(3.5)	
Taxi	173(0.3)	16(0.2)	189(0.3)	
Boda-boda	1272(2.5)	106(1.4)	1378(2.3)	
Other means	137(0.3)	26(0.3)	163(0.3)	
Missing	45765(88.8)	5629(74.5)	51394(87.0)	

Table S2 Individual-level fatal crash data by data source (unweighted)

	Police	Health facility	Mortuary	Total
Total	1069	335	598	2002

Additional details S1 (on data systems)

The Ministry of Health's Health Management Information System (HMIS) is an integrated reporting system that collects information on a routine basis to monitor the Health Sector. It provides data collection tools for capturing patient level data, which is aggregated into summary reports for submission to the next level. The flow of HMIS information is from the lowest level, which is the community, to the health unit, health sub-district, district and finally to the National Health Databank /Resource Centre of the Ministry of Health.

Patient-specific data are collected from various points during the patient's health facility visit, and at each point, a different data source contains the relevant information. These include the Out-Patient Department (OPD) register, In-patient register, case notes (also called the patient's in-hospital file), and discharge register. Different numbers may be assigned at various points, and in particular, the out-patient and in-patient numbers differ. Data are initially captured on paper, and digitization begins when summaries are made from the paper registers. HMIS data are aggregated at the health facility.

In 2016, the only variables recorded for injuries were the patient's sex, age (whether before 5 years, or 5 and above), and whether the injury was due to a road traffic crash, gender-based violence, or some other cause. In order to collect the information necessary for this study therefore, registers were used to find the patients' inpatient numbers, and their case files were retrieved where possible. For patients that were never admitted, or those whose case files could not be retrieved, only the information available in the OPD register was used. Where road traffic was not mentioned specifically, even if the rest of the information on the case file suggested the cause to be the road, these cases were not included. There were no forms at health facilities requiring the external cause of an injury (e.g. road traffic or fall) to be recorded. The amount and type of information recorded about the injuries therefore varied depending on what the health worker seeing the patient thought was important.

Additional details S2 (on weighting approach)

Since a multi-stage cluster sampling approach was used to select the study sites, we accounted for this design in the analysis by weighting the data. The selection of the police regions and police stations formed the basis for assigning the weights. As described in the sampling section, 16 out of the 27 police regions in the country were selected in the first sampling stage, and then 2 police stations and 2 health facilities were selected from within each sampled police region in the second sampling stage, after which all available records on traffic crashes at the selected police stations, health facilities, and mortuaries were abstracted. The weights assigned in the crash-level analysis were calculated as the inverse of the product of the probabilities of selecting the police region, and the probability of selecting a police station within the police region. (Reference: https://www.who.int/tb/advisory_bodies/impact_measurement_taskforce/meetings/prevalence_survey/psws_probability_prop_size_bierrenbach.pdf)

We applied the same weights to the individual-level data as described in the crash-level data section. This is because all the available records of individual injuries at a given police station, health facility or mortuary were extracted, implying that the probability of extraction was essentially one (100%). Heath facilities and mortuaries were assigned weights based on the selection probability of the police region within which they are located and the nearest police station in the sample.