Table 1. General information

Part	Number	Data Element	Code type	choice	Variable Code	Variable	Definition	
	A00_01	Name of EMS agency	text			EMS agency is defined when the agency operates EMS service by own its resources	The formal name of the agency	
	A00_02	Name of Country	text				The formal name of the country	
	A00_03	Population	text			*1000	The total population in the agency's service area based on year 2000 census data (if possible). This number does not include population changes associated with daily work flow or seasonal movements	
	A00_04	Year of survey	text			Year of census	The year of census	
	A00_05	Service Area	text			Km^2	The total square kilometers in the agency's service area	
	A00_06	Service Area Urbanization	combo	multiple	1	Urban	Agglomerations of 2,500 or more inhabitants, generally having population densities of 386 persons per square kilometer (1000 per square mile) or more.	
	2	Suburban						
					3	Rural	Open country and settlements with fewer than 2,500 residents; areas designated as rural can have population densities as high as 999 per square mile or as low as 1 person per square mile.	
Conord					4	Wildness	A natural environment on Earth that has not been significantly modified by human activity	
General information	A00_07	Population density	text			Regional population/Km^2	The number of persons per square kilometer in the service area	
	A00_08	Level of Service	combo	single	1	EMT-Basic		
					2	EMT-Intermediate		
					3	EMT-Paramedic	The highest credentialed personnel's level of service which the agency provides	
					4	Nurse	for every EMS encounter if requested. In a tiered response system, this is the highest level of service which could be sent to any specific call.	
					5	Physician	ingliest level of service which could be sent to any specific can.	
					6	First Responder		
	A00_09	Organization Type	combo	multiple	1	Community, Non- Profit		
					2	Fire Department		
					3	Governmental, Non- Fire	The organizational structure from which EMS services are delivered.	
					4	Hospital		
					5	Private, Non-Hospital		
					6	Tribal		
	A00_10	Organization Status	combo	single	1	Mixed	The primary organizational status of the agency. The definition of Volunteer or Non-Volunteer is based on state or local terms.	

					2	Non-Volunteer	
					3	Volunteer	
	A00_11	Service Fee	combo	multiple	1	Free and tax based	Where the main budget of EMS comes from
					2	Free and reimbursed by public insurance	
					3	Free and reimbursed by private insurance	
					4	Paid by patient	
	A00_12	Ambulance Operation	combo	single	1	Mixed	whether an ambulance stays at the same place (station) to standby, or moves to other points (or stations) based on the shift or the day-of-week.
					2	Fixed	
					3	Dynamic	
	A00_12	Dispatch Center Operation	combo	single	1	Fire	The organization who operates the dispatch center
					2	Police	
Dispatch					3	Non-fire and Non- police public	
					4	Private	
	A00_13	EM Dispatcher	combo	single	1	Certified	
					2	Non-certified	
					3	Mixed	
T. 1	A00_14	Tiered Response	combo	single	1	BLS single	The service level provided by EMS
Tiered system					2	BLS+ALS	
system					3	ALS single	

Table 2. Structure

Part	Number	Data Element	Code type	choice	Variable Code	Variable	Definition
Structure	B00_01	Survey year	text				The year in which the followings were investigated
	B00_02	Human Resource (Number), Total EMS Agency (Full time)	text				The total number of work forces working full-time in the EMS agency
Human	B00_03	EMT-basic (number) (full time)	text				The total number of full-time employees in the EMS agency with EMT- basic certification or similar level of training
Resources	B00_04	EMT-intermediate (number) (full time)	text				The total number of full-time employees in the EMS agency with EMT- intermediate certification or similar level of training
	B00_05	EMT-paramedic (number) (full time)	text				The total number of full-time employees in the EMS agency with EMT- paramedic certification or similar level of training

	B00_06	Nurse (number) (full time)	text	The total number of full-time employees in the EMS agency with registered nurse certification or similar level of training
	B00_07	Physician (number) (full time)	text	The total number of full-time employees in the EMS agency with medical doctor certification or similar level of training
	B00_08	First responder (number) (full time)	text	The total number of full-time employees in the EMS agency with the level of first-responder training
	B00_09	BLS Ambulance (Number)	text	The number of BLS vehicles
	B00_10	ALS Ambulance (Number)	text	The number of ALS vehicles
	B00_11	Helicopter Ambulance (Number)	text	The number of helicopters
	B00_12	Fixed Wing Airflight (Number)	text	The number of fixed-wing planes
	B00_13	Motorcycle (Number)	text	The number of motorcycles
Ambulance	B00_14	Ship Ambulance (Number)	text	The number of ships
	B00_15	Bicycle (Number)	text	The number of bicycles
	B00_16	Quick Response Vehicle (Non- Transport Vehicle other than Fire Truck (Number)	text	The number of quick response vehicles not equipped for patient transportation. Fire trucks are not counted in.
	B00_17	Ambulance Station (Number)	text	The number of ambulance stations where ambulances and crews wait for the request.
Dispatch	B00_18	Dispatch Center (Number)	text	The number of dispatch centers which is operated by EMS agencies, police departments, or fire departments. Public Safety Answering Points are also included (example 1339 emergency medical information centers in Korea)
Center	B00_19	Certified Dispatcher (Number)	text	The total number of certified dispatcher in the study area
	B00_20	Non-Certified Dispatcher (Number)	text	The total number of non-certified dispatcher in the study area

Table 3. Process

Table 5							
Part	Number	Data Element	Code type	choice	Variable Code	Variable	Definition
	C00_01	Survey Year	text				The year, in which following variables were investigated
	C00_02	Call to Departure (minute), mean	text				Call to Departure: the difference between the date/time the
	C00_03	Call to Departure (minute), standard deviation	text				phone rings (dispatch center or public safety answering point or other designated entity) requesting EMS services and the
Total	C00_04	Call to Departure (minute), median	text				date/time the EMS unit responded; that is, the time vehicle
OHCA	C00_05	Call to Departure (minute), 25 percentile	text				started moving. If the precise time of departure is not known, the
	C00_06	Call to Departure (minute), 75 percentile	text				date/time the responding unit was notified by dispatch could substitute the departure time.
	C00_07	Departure to Scene (minute), mean	text				Departure to Scene : the difference between the date/time the

C00_08	Demonstrume to Second (minute) standard deviation	44	EMS unit responded (started moving) and the date/time the		
	Departure to Scene (minute), standard deviation	text	responding unit arrived at the patient's side. if the precise time of		
	Departure to Scene (minute), median	text	arrival 'at patient is not known, the date/time the responding unit		
	Departure to Scene (minute), 25 percentile	text	arrived on the scene; that is, the time the vehicle stopped moving		
	Departure to Scene (minute), 75 percentile	text	can substitute the scene time.		
	Scene to Departure (minute), mean	text	Scene to Departure : the difference between the date/time the		
	Scene to Departure (minute), standard deviation	text	responding unit arrived at the patient's side and the date/time the responding unit left the scene (started moving). if the precise		
	Scene to Departure (minute), median	text	time of arrival 'at patient is not known, the date/time the		
	Scene to Departure (minute), 25 percentile	text	responding unit arrived on the scene; that is, the time the vehicle		
C00_16	Scene to Departure (minute), 75 percentile	text	stopped moving can substitute the scene time.		
C00_17	Departure to Hospital (minute), mean	text			
C00_18	Departure to Hospital (minute), standard deviation	text	Departure to Hospital : the difference between the date/time the		
C00_19	Departure to Hospital (minute), median	text	responding unit left the scene (start moving) and the date/time the responding unit arrived with the patient at the destination		
C00_20	Departure to Hospital (minute), 25 percentile	text	(hospital etc) or transfer point		
C00_21	Departure to Hospital (minute), 75 percentile	text			
C01_01	Survey Year	text	The year, in which following variables were investigated		
C01_02	Call to Departure (minute), mean	text	Call to Departure: the difference between the date/time the		
C01_03	Call to Departure (minute), standard deviation	text	phone rings (dispatch center or public safety answering point or other designated entity) requesting EMS services and the		
C01_04	Call to Departure (minute), median	text	date/time the EMS unit responded; that is, the time vehicle		
C01_05	Call to Departure (minute), 25 percentile	text	started moving. If the precise time of departure is not known, the		
C01_06	Call to Departure (minute), 75 percentile	text	date/time the responding unit was notified by dispatch could substitute the departure time.		
C01_07	Departure to Scene (minute), mean	text	Departure to Scene: the difference between the date/time the		
C01_08	Departure to Scene (minute), standard deviation	text	EMS unit responded (started moving) and the date/time the		
C01_09	Departure to Scene (minute), median	text	responding unit arrived at the patient's side. If the precise time of		
C01_10	Departure to Scene (minute), 25 percentile	text	departure is not known, the date/time the responding unit was		
C01_11	Departure to Scene (minute), 75 percentile	text	notified by dispatch could substitute the departure time.		
C01_12	Scene to Departure (minute), mean	text	Scene to Departure: the difference between the date/time the		
C01_13	Scene to Departure (minute), standard deviation	text	responding unit arrived at the patient's side and the date/time the		
C01_14	Scene to Departure (minute), median	text	responding unit left the scene (started moving). if the precise time of arrival at patient is not known, the date/time the		
C01_15	Scene to Departure (minute), 25 percentile	text	responding unit arrived on the scene; that is, the time the vehicle		
C01_16	Scene to Departure (minute), 75 percentile	text	stopped moving can substitute the scene time.		
C01_17	Departure to Hospital (minute), mean	text	Departure to Hospital : the difference between the date/time the		
C01_18	Departure to Hospital (minute), standard deviation	text	responding unit left the scene (start moving) and the date/time		
C01_19	Departure to Hospital (minute), median	text	the responding unit arrived with the patient at the destination		

C01_20	Departure to Hospital (minute), 25 percentile	text		(hospital etc) or transfer point
C01_21	Departure to Hospital (minute), 75 percentile	text		

Table 4. Outcomes

Part	Number	Data Element	Code type	variabl e code	variable	Definition
	D00_01	Outcome Survey Year	text			The year, in which following variables were investigated
	D00_02	Transport, total per year (Number)	text			The number of transported patients per year.
	D00_03	Transport, total injury per year (Number)	text			The number of transported injured patients per year.
Total	D00_04	Transport, total non-injury per year (Number)	text			The number of transported non-injured patients per year.
	D00_05	Transport, total children less than 15 years per year (Number)	text			The number of transported patients younger than 15 years per year.
	D00_06	Transport, total more than 65 years per year (Number)	text			The number of transported patients older than 65 years per year.
	D01_01	EMS-assessed OHCA per year (Number)	text			The number of out of hospital cardiac arrest assessed by EMS per year
	D01_02	EMS-treated OHCA per year (Number)	text			The number of out of hospital cardiac arrest treated by EMS per year. EMS-treated means the patient received any kind of resuscitative efforts by EMS, including BVM and cardiac compression.
	D01_03	Bystander CPR (Number)	text			The number of out of hospital cardiac arrest who received bystander CPR, per year
	D01_04	EMS Defibrillation (Number)	text			The number of out of hospital cardiac arrest who received Defibrillation by EMS, per year
OHCA	D01_05	EMS CPR (Number)	text			The number of out of hospital cardiac arrest who received CPR by EMS, per year. CPR by EMS means that cardiac compression was performed.
	D01_06	Survival to Hospital Admission (Number)	text			The number of out of hospital cardiac arrest who survived to admit to the hospital ,per year
	D01_07	Survival to Hospital Discharge (Number)	text			The number of out of hospital cardiac arrest who survived to discharge from the hospital ,per year
	D01_08	Good CPC (1 and 2) (Number)	text			The number of out of hospital cardiac arrest who survived to have good CPC, which is 1 or 2,per year
	D01_09	Time of CPC evaluation	single	1	at admission	choose the nearest point of the first CPC evaluation
				2	at discharge	
				3	one month follow up	

		4	three month follow up
		5	six month follow up
		6	one year follow up

Table 5. Medical direction

Part	Number	Data Element	Code type	choice	Variable Code	Variable	Definition
medical direction	E00_01	Medical Direction Type	combo	single	1	Mixed	The type of medical direction
					2	Direct (On-line)	
					3	Indirect (Off-line)	
	E00_02	On-line Medical Direction Site	combo	single	1	Mixed	the place from where medical directions were given on-line
					2	Dispatch Center	
					3	Independent Public Center	
					4	Base Hopital	
					5	Other	
	E00_03	MedicalDirectorCertification	combo	single	1	Certified	The certification of medical directors
					2	Non-certified	
	E00_04	Medical Director Employment	combo	single	1	Volunteer	How is the medical directors are employed by the EMS
					2	Part-time	
					3	Full-time	
	E00_05	Committee for Medical Oversight	combo	single	1	Yes	Does the committee exist formally?
					2	No	
	E00_06	Procedures, permitted	combo	multiple	1	CNS Catheter-Epidural Maintenance	A list of all procedures that the agency has implemented and available for use.
					2	CNS Catheter-Intraventricular Maintenance	
					3	Airway-Needle Cricothyroitomy	
					4	Airway-Surgical Cricothyroitomy	
					5	Airway-Direct Laryngoscopy	
					6	Airway-Video Laryngoscopy	

		7	Chest Decompression
		8	Chest Tube Placement
		9	Pericardiocentesis
		10	Intra-Aortic Balloon Pump Maintenance
		11	Left Ventricular Assist Device Maintenance
		12	Arterial Access-Blood Draw
		13	Venous Access-Blood Draw
		14	Venous Access-Existing Catheter
		15	Venous Access-Extremity
		16	Venous Access-External Jugular Line
		17	Venous Access-Femoral Line
		18	Blood Glucose Analysis
		19	Venous Access-Internal Jugular Line
		20	Venous Access-Subclavian Line
		21	Venous Access-Discontinue
		22	Venous Access-Umbilical Vein Cannulation
		23	Venous Access-Intraosseous Adult
		24	Venous Access-Intraosseous Pediatric
		25	Urinary Catheterization
		26	Childbirth
		27	Joint Reduction/Relocation
		28	Escharotomy
		29	Decontamination
		30	Capnography (CO2 Measurement)
		31	Pulse Oximetry
		32	Cardiac Monitor
		33	Orthostatic Blood Pressure Measurement
		34	Patient Monitoring of Pre-existing Devices, Equipment, or Ongoing Medications
		35	Arterial Line Maintenance
		36	Venous Access-Central Line Maintenance
		37	Venous Access-Swan Ganz Maintenance
		38	Assessment-Adult
		39	Assessment-Pediatric

		40	Pain Measurement
		41	Temperature Measurement
		42	Thrombolytic Screen
		43	12 Lead ECG-Obtain
		44	12 Lead ECG-Transmitted
		45	Wound Care-Taser Barb Removal
		46	Wound Care-Tourniquet
		47	Wound Care-General
		48	Wound Care-Irrigation
		49	Wound Care-Hemostatic Agent
		50	Patient Warming (Hot Pack, etc.)
		51	Splinting-Traction
		52	Splinting-Basic
		53	MAST
		54	Spinal Immobilization
		55	Airway-CPAP
		56	Airway-Respirator Operation (BLS)
		57	Airway-Bagged (via tube)
		58	Airway-Bagged (via BVMask)
		59	Airway-Nebulizer Treatment
		60	Airway-Nasal
		61	Airway-Oral
		62	Airway-EOA/EGTA
		63	Airway-Orotracheal Intubation
		64	Airway-Nasotracheal Intubation
		65	Airway-Rapid Sequence Intubation
		66	Airway-Combitube Blind Insertion Airway Device
		67	Airway-Laryngeal Mask Blind Insertion Airway Device
		68	Airway-King LT Blind Insertion Airway Device
		69	Gastric Tube Insertion-Inserted Nasally
		70	Gastric Tube Insertion-Inserted Orally
		71	Airway-Ventilator Operation
		72	Airway-Ventilator with PEEP

	73	Airway-BiPAP	
	74	Airway-Impedance Threshold Device	
	75	Airway-PEEP	
	76	Airway-Intubation Confirm Colorimetric ETCO2	
	77	Airway-Intubation Confirm Esophageal Bulb	
	78	Airway-Extubation	
	79	Airway-Change Tracheostomy Tube	
	80	Airway-Intubation of Existing Tracheostomy Stoma	
	81	Airway-Cleared, Opened, or Heimlich	
	82	Airway-Foreign Body Removal	
	83	Airway-Suctioning	
	84	Vagal Maneuver-Carotid Massage	
	85	Vagal Maneuver-Valsalva or Other Vagal Maneuver (Not Carotid Massage)	
	86	Restraints-Pharmacological	
	87	Restraints-Physical	
	88	Patient Cooling (Cold Pack, etc.)	
	89	Patient Cooling-Post Resuscitation	
	90	Injections-SQ/IM	
	91	Cardiac Pacing-External	
	92	Cardiac Pacing-Transvenous	
	93	Cardioversion	
	94	CPR by Other External Automated Device	
	95	CPR-AutoPulse Device	
	96	CPR-Mechanical Thumper Type Device	
	97	CPR-Precordial Thump Only	
	98	CPR-Start Compressions and Ventilations	
	99	CPR-Start Compressions only without Ventilation	
	100	CPR-Start Rescue Breathing without Compressions	
	101	CPR-Stop	
	102	Defibrillation-Automated (AED)	
	103	Defibrillation-Manual	
	104	Defibrillation-Placement for Monitoring/Analysis	

				105	Rescue	
				106	Extrication	
		1		107	Patient Loaded-Helicopter Hot-Load	
				108	Patient Off-Loaded	
				109	Patient Off-Loaded Helicopter Hot Off-Load	
				110	Specialty Center Activation-Adult Trauma	
				111	Specialty Center Activation-Pediatric Trauma	
				112	Specialty Center Activation-Cardiac Arrest	
				113	Specialty Center Activation-STEMI	
				114	Specialty Center Activation-Stroke	
				115	Activation-Advanced Hazmat Specialty Service/Response Team	
				116	Activation-Fire Rehabilitation Specialty Service/Response Team	
				117	Activation-Other Specialty Service/Response Team	
				118	Activation-Rescue Specialty Service/Response Team	
				119	Activation-Social Services Notification/Referral	
				120	Activation-Tactical or SWAT Specialty Service/Response Team	
				121	Patient Loaded	
				122	Contact Medical Control	
E00_07	Protocol	combo	multiple	1	Abdominal Pain	A list of all of the medical treatment protocols that the agency has in place and available for use.
				2	Airway	
				3	Airway-Failed	
				4	Airway-RSI	
				5	Allergic Reaction/Anaphylaxis	
				6	Altered Mental Status	
				7	Altitude Sickness	
				8	Asystole	
				9	Atrial Fibrillation	
				10	Back Pain	
				11	Behavioral	

		12	Bites and Envenomations
		13	Bradycardia
		14	Burns
		15	Cardiac Arrest
		16	Cardiac Chest Pain
		17	Childbirth/Labor
		18	Cold Exposure
		19	Dental Problems
		20	Device Malfunction
		21	Diarrhea
		22	Drowning/Near Drowning
		23	Diving Emergencies
		24	Electrical Injuries
		25	Epistaxis
		26	Exposure-Airway Irritants
		27	Exposure-Biological/Infectious
		28	Exposure-Blistering Agents
		29	Exposure-Cyanide
		30	Exposure-Nerve Agents
		31	Exposure-Radiologic Agents
		32	Exposure-Riot Control Agents
		33	Extremity Trauma
		34	Eye Trauma
		35	Fever
		36	Gynecologic Emergencies
		37	Head Trauma
		38	Hyperglycemia
		39	Hypertension
		40	Hyperthermia
		41	Hypoglycemia
		42	Hypotension/Shock (Non-Trauma)
		43	Hypothermia
		44	IV Access
		45	Trauma-Multisystem

				46	Newly Born	
				47	Obstetrical Emergencies	
				48	Overdose/Toxic Ingestion	
				49	Pain Control	
				50	Post Resuscitation	
				51	Pulmonary Edema	
				52	Pulseless Electrical Activity	
				53	Respiratory Distress	
				54	Seizure	
				55	Spinal Cord Trauma	
				56	Spinal Immobilization	
				57	Supraventricular Tachycardia	
				58	Stroke/TIA	
				59	Syncope	
				60	Trauma-Arrest	
				61	Trauma-Amputation	
				62	Universal Patient Care	
				63	Ventricular Fibrillation	
				64	Ventricular Ectopy	
				65	Ventricular Tachycardia	
				66	Vomiting	
E00_08	Dispatch Protocol	combo	single	1	MPDS	The type of protocols used by the
				2	CBD	Dispatch system. MPDS (Medical Priority Dispatch
				3	Developed by yours	System), CBD (Criteria Based
				4	non-protocol	Dispatch). Or The one developed by yourself or others.