

# Linking Trauma Registry Data in RAC D (2011)

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# Limiting Data for Linking

## EMS Data

Valid Name

Run Type

- 911 calls
- Emergency transfers
- Non-emergency transfers

Response Type

- Excluded cancelled calls and false alarms

## Hospital Data

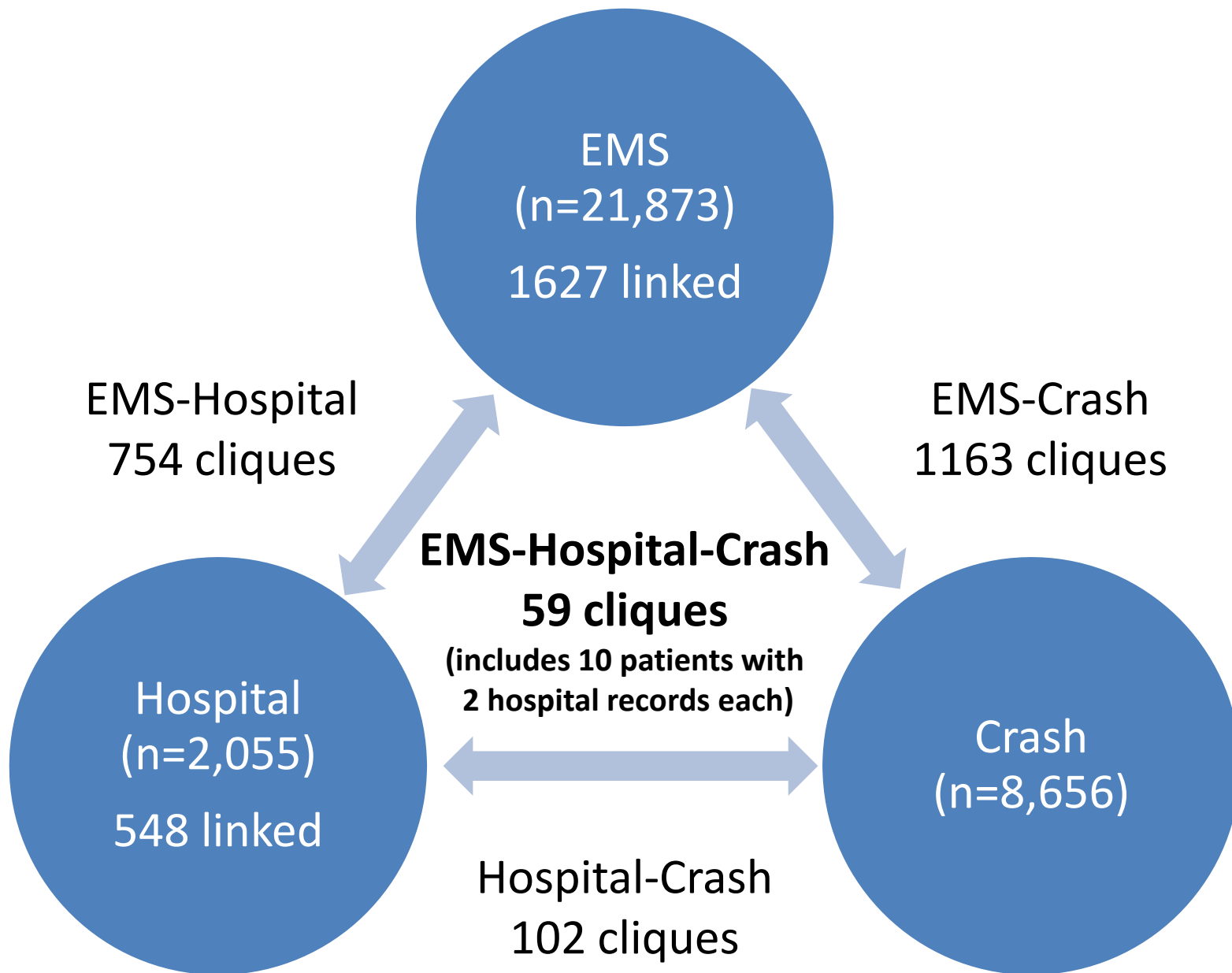
Valid Name

## Crash Data

Valid Name

Drivers Only

- Passengers do not have valid DOB



# Identification as MVC Injury

- Inconsistent identification as MVC injury
  - Infer injury in MVC by presence in Crash data

		EMS Data			
		MVC	Fall	Other	Missing
Hospital Data	MVC	26	1	10	21
	Fire/burn	0	0	0	1

# MVC Injury Outcome

- Crash data includes outcome up to several weeks after crash
- Hospital data includes outcome at discharge

## Crash Data

	Incapacitating Injury	Non-incapacitating injury	Possible Injury	Killed	
<b>Hospital Data</b>	Alive, full recovery	22	14	4	0
	Alive, moderate recovery	2	0	0	0
	Alive, severe disability	2	0	0	0
	Dead	2	0	0	5
	Transfer to another facility	5	3	0	0

# Alcohol Involvement in MVC

- Crash records indicate alcohol testing result in 4
- Hospital records indicate alcohol testing result in 20

		Crash Data		
		Positive	Negative	No data
Hospital Data	Not tested	0	1	37
	No (confirmed by test)	0	0	9
	Yes, trace (confirmed by test)	1	0	0
	Yes, beyond legal limit (confirmed by test)	2	0	8

# Case Study of Linked Records

EMS	<p>On 3/26/2011, EMS “M” responded to a 911 trauma call received at 1:14am regarding a 28-year-old female “Mary Perez”. Ambulance arrived at 1:26am at a street/highway location in an unrecorded city/county. The cause of injury and type of injury was not recorded. The patient experienced extrication from a vehicle and received spine immobilization. The ambulance left the scene at 2:09am and arrived at the hospital “H” at 2:18am.</p>
Hospital	<p>On 3/26/2011, Hospital “H” admitted a 28-year-old female “Mary Perez” with moderate injuries who was in a MVC in Taylor County. She tested positive for alcohol beyond legal limit. Her injuries included a fractured and dislocated ankle and other lacerations and contusions. She underwent an open reduction of the fracture. She was discharged on 3/28/2011 and expected to have a full recovery.</p>
Crash	<p>On 3/26/2011 at 1:10am, a 28-year-old female driver “Mary Perez” was in a one-car MVC in Taylor County. The weather was clear; the road was dark and not lighted. She received incapacitating injuries; the passenger in her car was not injured. “Mary” was not wearing her seat belt, but her air bag deployed. She was not tested for alcohol at the scene. She was taken by EMS “M” to Hospital “H”.</p>