



TEXAS
Health and Human
Services

**Texas Department of State
Health Services**

EMS and Trauma Registries

Texas Submersion Registry

September 30, 2020

Presenters

Felicia Yeboah, DrPH

Aisha Spinks, CSTR

Haruna Miyakado, MS

Submersion Data, 2019

Felicia Yeboah, DrPH

Texas Submersion Registry, Office of Injury Prevention, Maternal and Child Health Unit



TEXAS
Health and Human
Services

Texas Department of State
Health Services

Submersion Data, 2019

- Chapter 92, Sec. 92.002 of Health and Safety Code states submersion injuries are reportable to the department.
- Texas Administrative Code Title 25, Part 1
 - Submersion injury: the process of experiencing respiratory impairment from submersion/immersion in liquid.
 - EMS providers, hospitals, Justice of the Peace, Medical Examiners and Physicians are responsible for reporting submersion injuries.

Submersion Data Overview, 2019

1. Who?

- Gender
- Age
- Race and Ethnicity

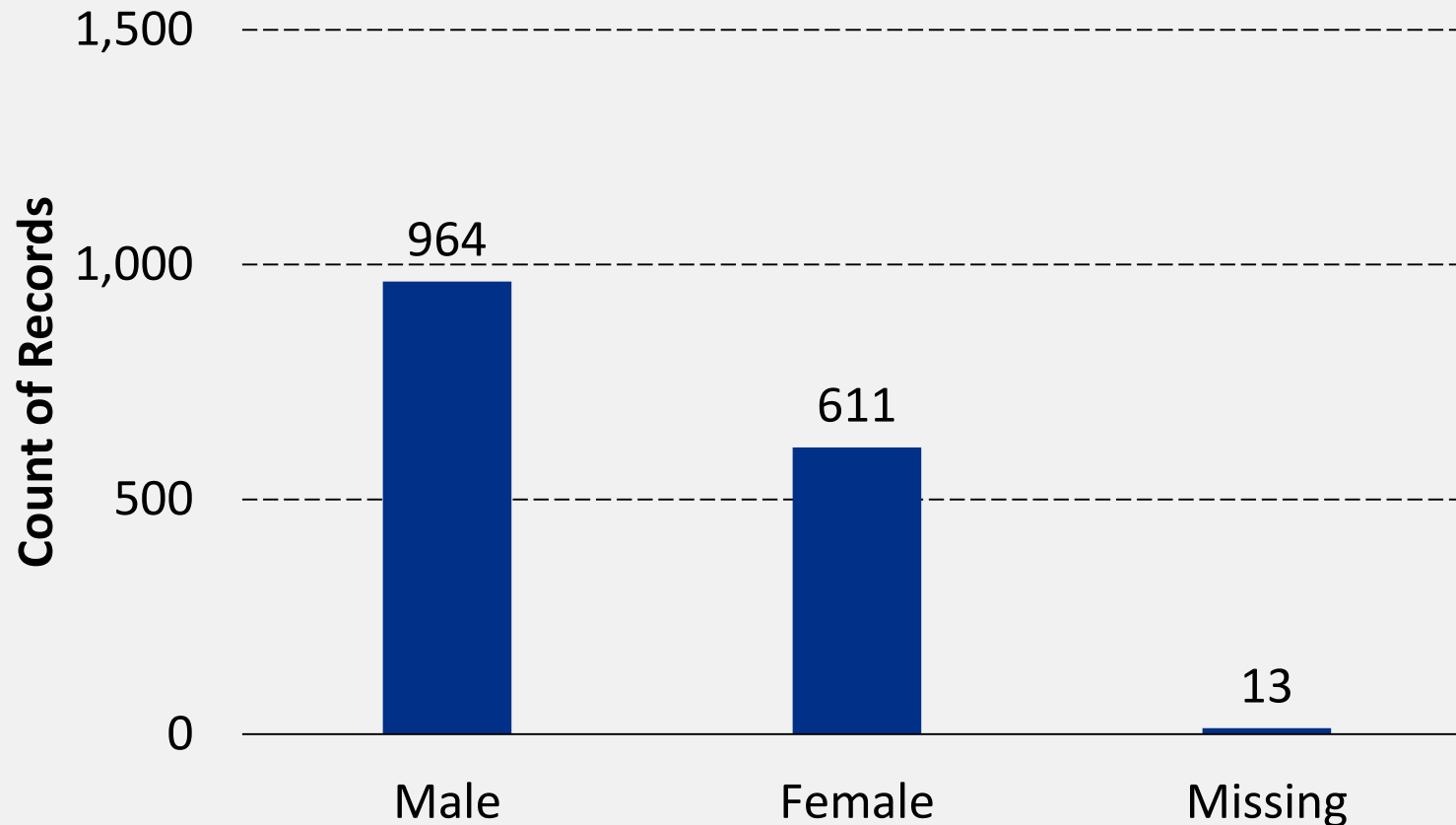
2. What?

- Causes of Submersion Injuries

Gender

Gender	Frequency of Submersion Records	Percent
Male	964	60.70
Female	611	38.48
Missing	13	0.82
Total	1,588	100.00

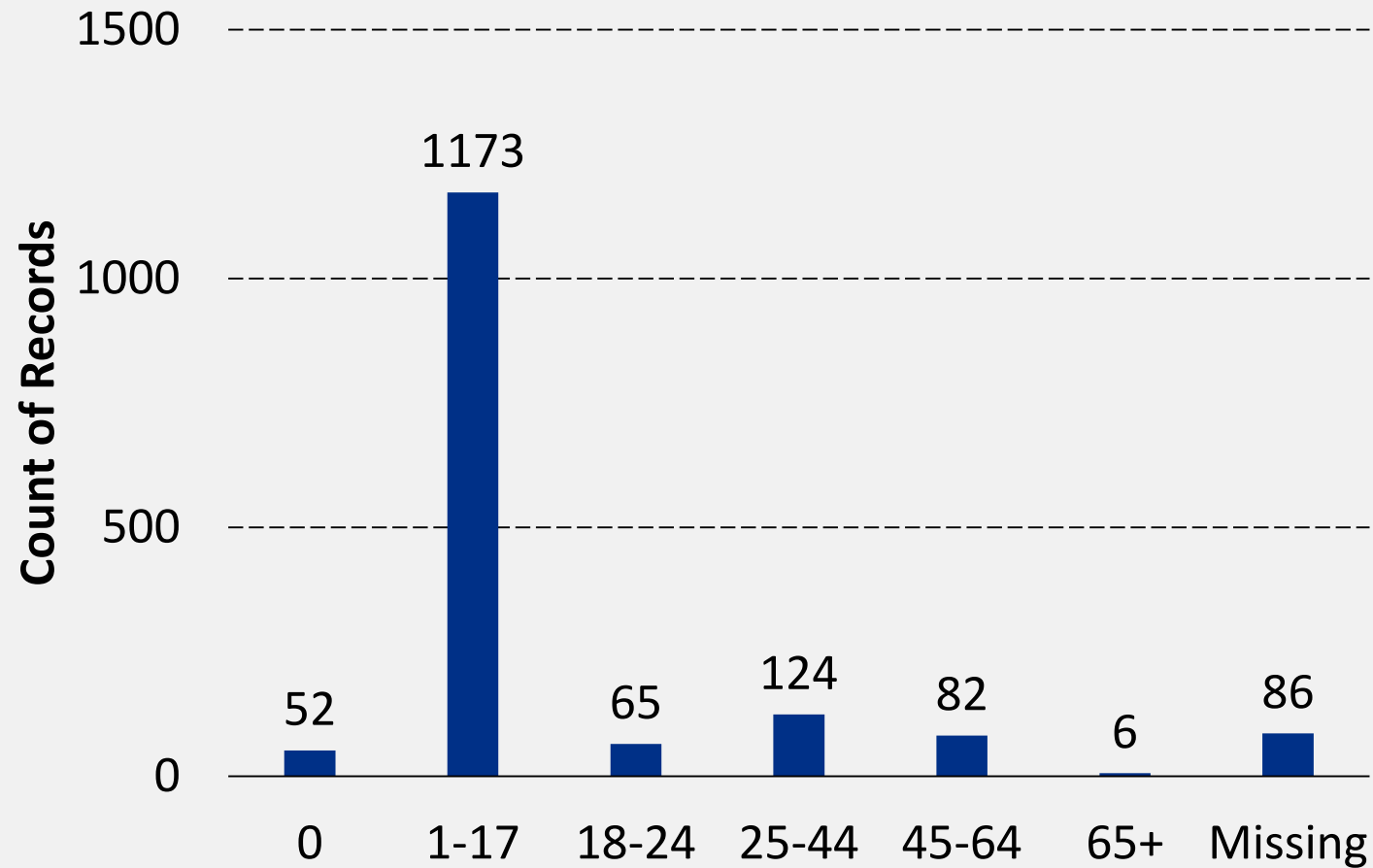
Texas Submersion Records by Gender, 2019



Age Groups

Age in Years	Frequency of Submersion Records	Percent of Total
<1 year	52	3.27
1-17	1,173	73.87
18-24	65	4.09
25-44	124	7.81
45-64	82	5.16
65+	6	0.38
Missing	86	5.42
Total	1,588	100.00

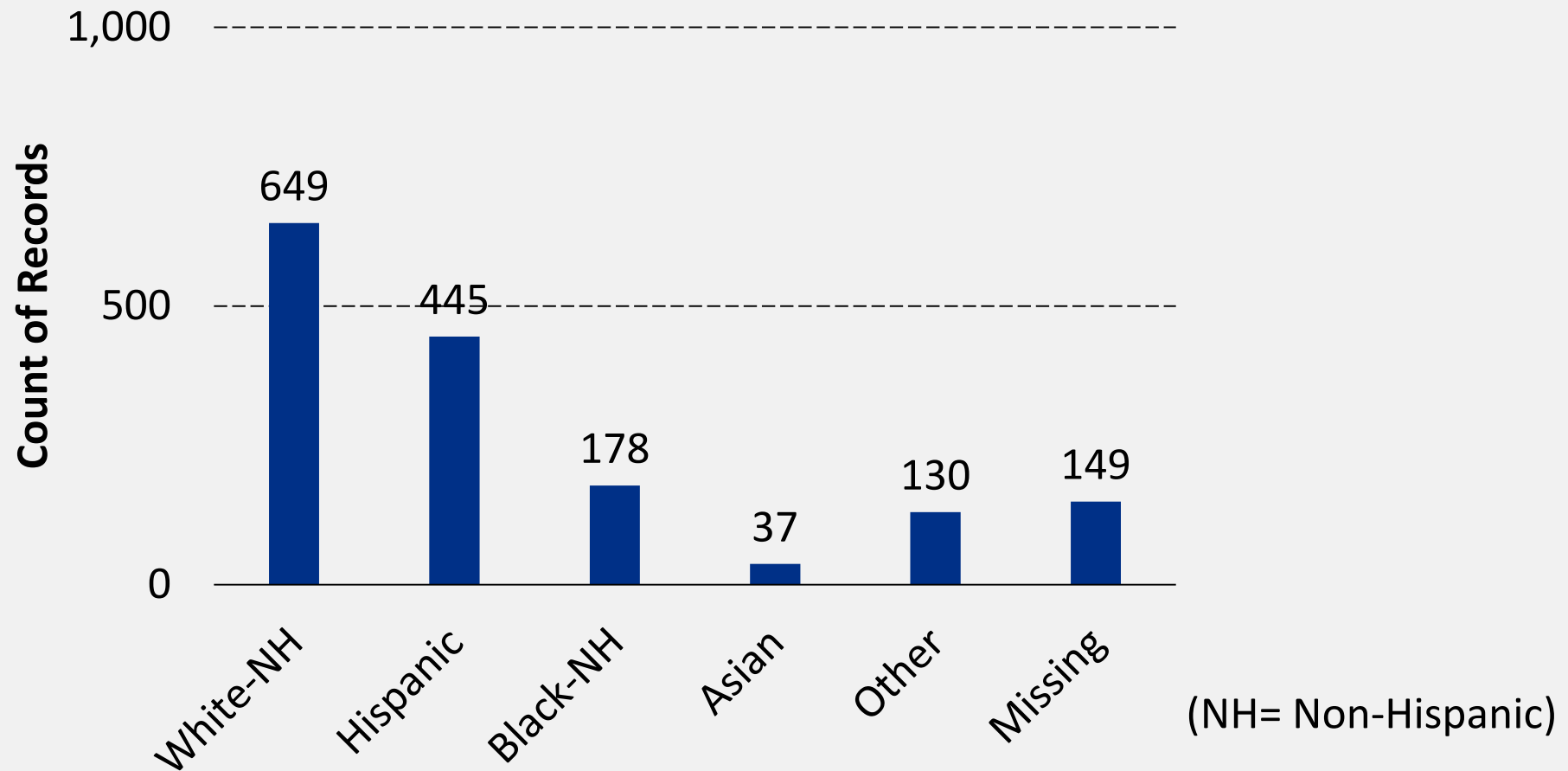
Texas Submersion Records by Age Groups, 2019



Race and Ethnicity

Race and Ethnicity	Frequency of Submersion Records	Percent
White-Non Hispanic (NH)	649	40.87
Hispanic	445	28.02
Black-NH	178	11.21
Asian-NH	37	2.33
Other	130	8.19
Missing	149	9.38
Total	1,588	100.00

Texas Submersion Records by Race and Ethnicity, 2019



Top 3 Specific Causes of Submersion Injury

Causes of Injury	ICD10 CM Codes	Freq of Submersion Records N=439	%
Unspecified effects of drowning and nonfatal submersion	T75.1	106	24.15
Unspecified effects of drowning and nonfatal submersion, initial encounter	T75.1X XA	98	22.32
Accidental drowning and submersion while in swimming-pool, initial encounter	W67.X XXA	93	21.18

Texas Submersion Registry Changes and Demo

Aisha Spinks, CSTR



TEXAS
Health and Human
Services

Texas Department of State
Health Services

Submersion Registry Changes

New Submersion Models

- **For Hospital reference only:** ICD-10 external cause codes related to drownings and near drownings will be recorded.
- **For Justice of the Peace /Medical Examiner reference only:** How injury occurred, cause of death and submersion manner of death will be recorded.



Submersion Registry Changes, cont.

New Submersion Models

- **For Hospital reference only:** Code examples, W16.211A, W67.XXXA, W67.XXXA.
- **For Justice of the Peace (JP)/Medical Examiner (ME) reference only:** Examples “how injury occurred” (fall, other, MVC), “cause of death” (drowning, blunt force head trauma), “submersion manner of death” (accidental, undetermined).



Submersion Registry Changes, cont.

- New Submersion Models for Hospitals, Justices of the Peace and Medical Examiners.
- Provider Name (entity) field is mandatory.
- Individual's home address field has been deleted.
- Hospital Arrival Date changed to ED/Hospital Arrival Date.
- ED Discharge Date field has been deleted.
- Hospital Discharge Date changed to ED/Hospital Discharge Date.
- Hospital Discharge Disposition changed to ED/Hospital Discharge Disposition.
- Patient activity additional answer choice not swimming/playing wandered out added.



Submersion Registry Changes, cont.

- Personal flotation device additional answer choices of “life jacket/puddle jumper (coast guard approved)” and “life jacket/puddle jumper (unknown approval)” added.
- Supervised additional answer choices added ex. “Yes, adult within arms reach” and “No, adult supervision...”
- ICD-10-CM Cause Code changed to accept submersion related ICD-10-CM external cause codes only.
- New JP/ME fields: how injury occurred, cause of death and submersion manner of death.
- Outcome field is mandatory. Answer choices are morbidity, no morbidity and death.



Submersion Registry Changes, cont.

Demo: Web Data-entry Hospital JP/ME



Texas Department of State
Health Services

Thank you!

EMS and Trauma Registries

Contact Information:

injury.web@dshs.texas.gov