



TEXAS
Health and Human
Services

Texas Department of State
Health Services

Trauma Registry 2016

GETAC

May 9-11, 2018



TEXAS
Health and Human
Services

Texas Department of State
Health Services

Trauma Committee Update

Agenda

1. Texas Registries Overview
2. 2016 Trauma Records by Hospital Designation Report
3. Updated Shock Report



TEXAS
Health and Human Services

Texas Department of State
Health Services

Texas Registries Overview

- Reports submitted by TX hospitals and EDs (passive surveillance)
- Data transmitted via file transfer or web entry to the Registry
- Data standard dictated by National Trauma Data Bank (NTDB)
- Trauma Registry data likely do not include everything available to hospital trauma registrars



TEXAS
Health and Human Services

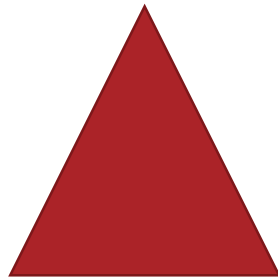
Texas Department of State
Health Services

Data System Differences

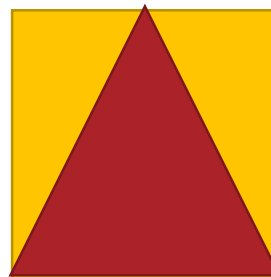
TX Trauma Registry



Hospital 1



Hospital 2



Hospital 3



TEXAS
Health and Human Services

Texas Department of State
Health Services

Overview of Trauma Records

Texas DSHS Trauma Registry 2016

- **149,541** records in 2016
- Trauma definition:
 - Specific ICD codes AND
 - Hospitalized for 48+ hours OR transferred into or out of the hospital OR death



TEXAS
Health and Human Services

Texas Department of State
Health Services

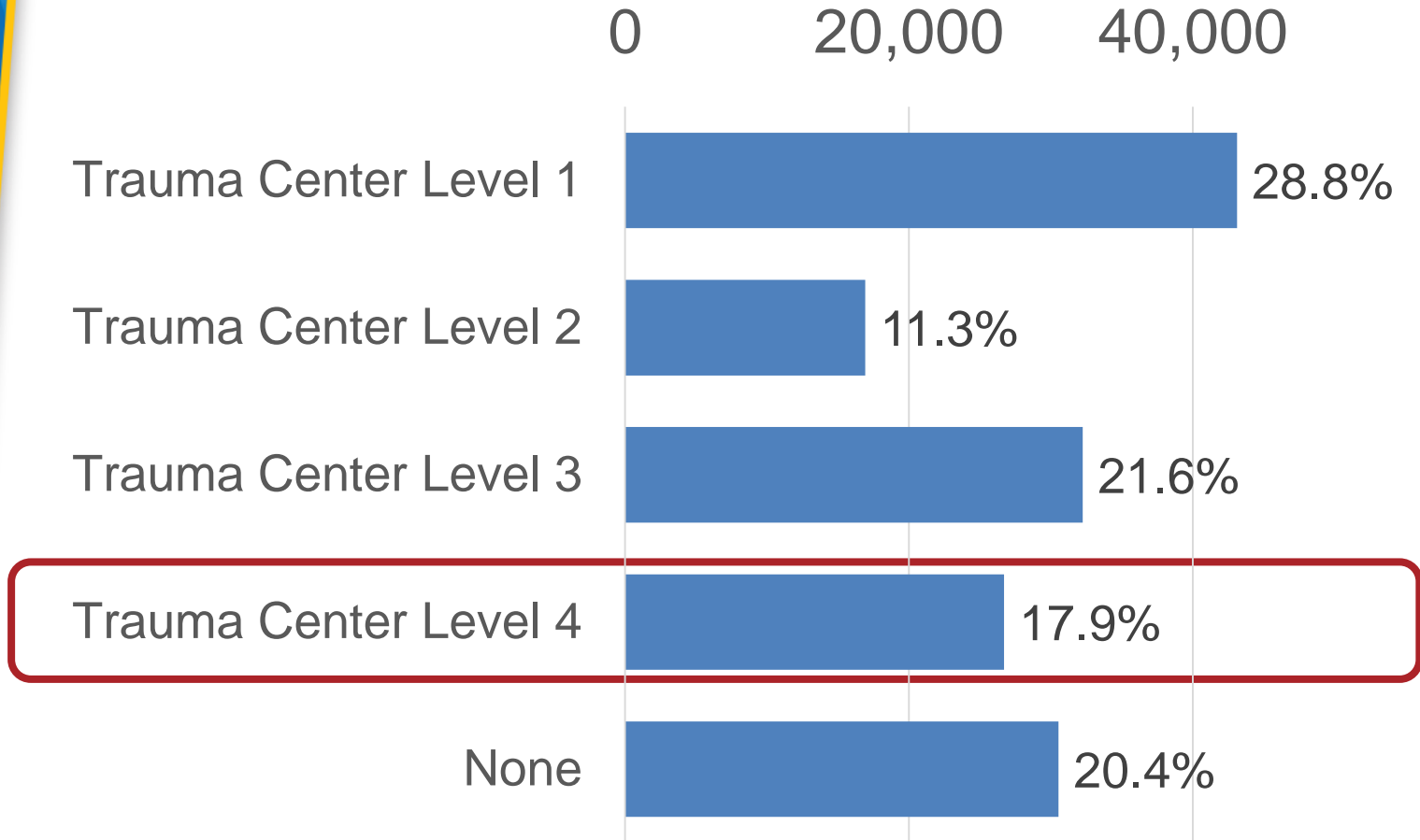
Number of Trauma Records by Hospital Designation



TEXAS

Health and Human Services

Texas Department of State
Health Services

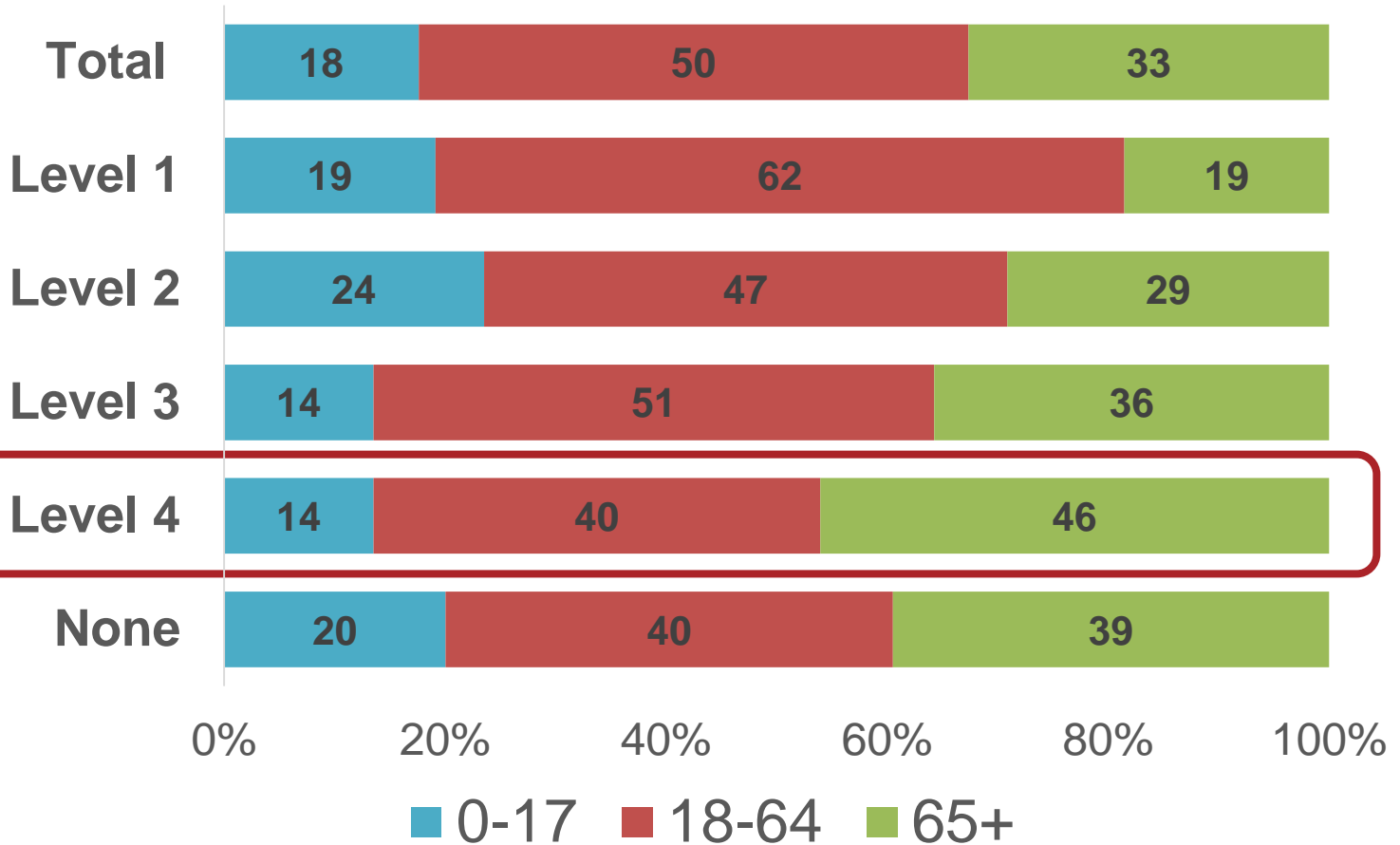


Percent of Trauma Records by Age Group and Hospital Designation



TEXAS
Health and Human Services

Texas Department of State
Health Services



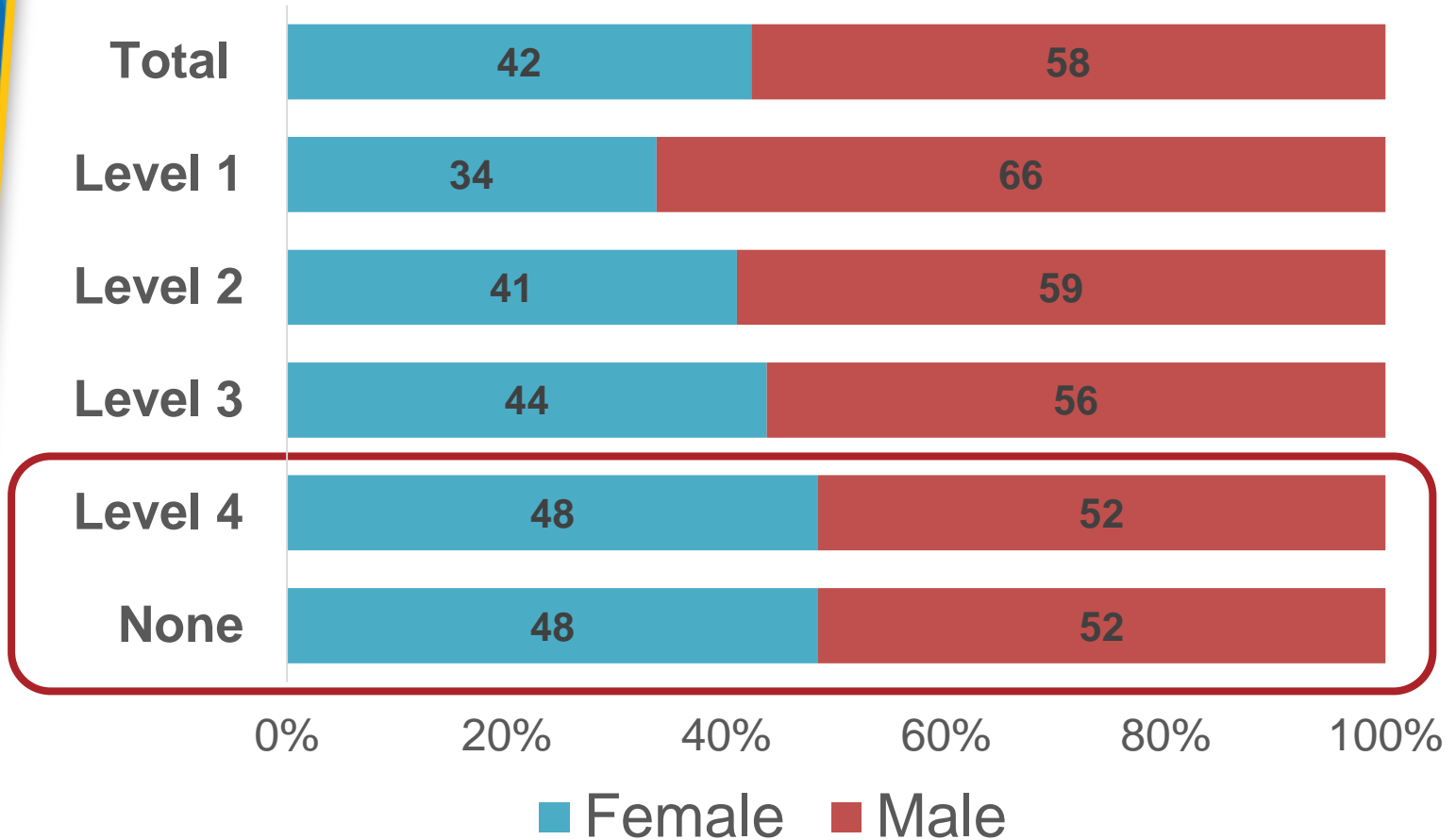
Percent of Trauma Records by Sex and Hospital Designation



TEXAS

Health and Human Services

Texas Department of State
Health Services

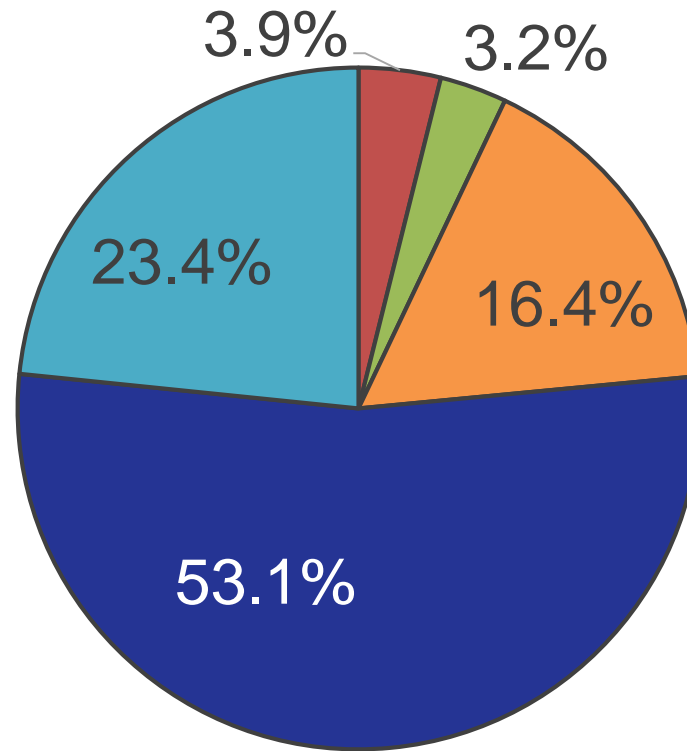


Percent of Outbound Trauma Transfers by Hospital Designation



TEXAS
Health and Human Services

Texas Department of State
Health Services



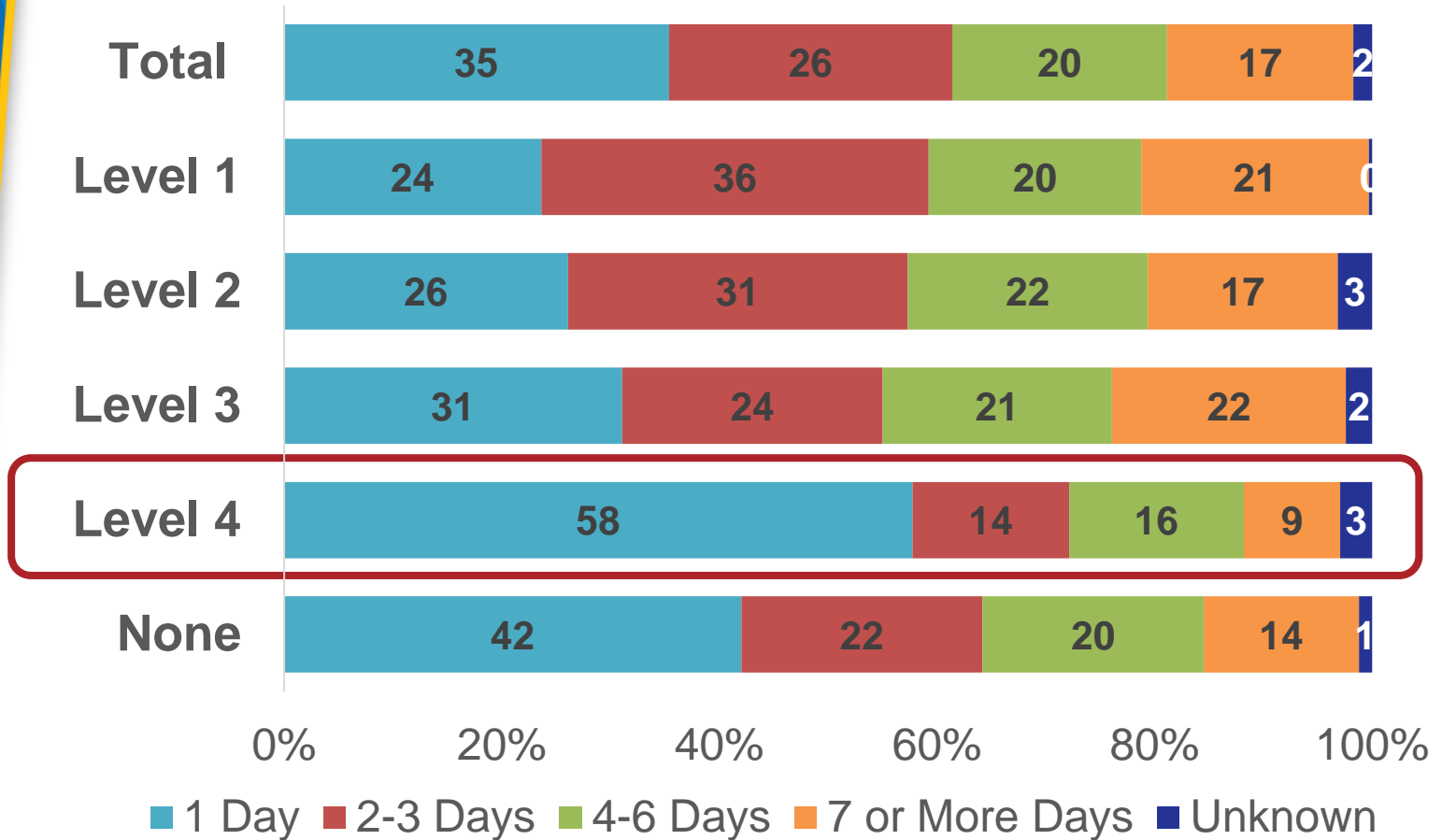
■ Level 1 ■ Level 2 ■ Level 3 ■ Level 4 ■ None

Percent of Trauma Records by Length of Stay and Hospital Designation



TEXAS
Health and Human Services

Texas Department of State
Health Services



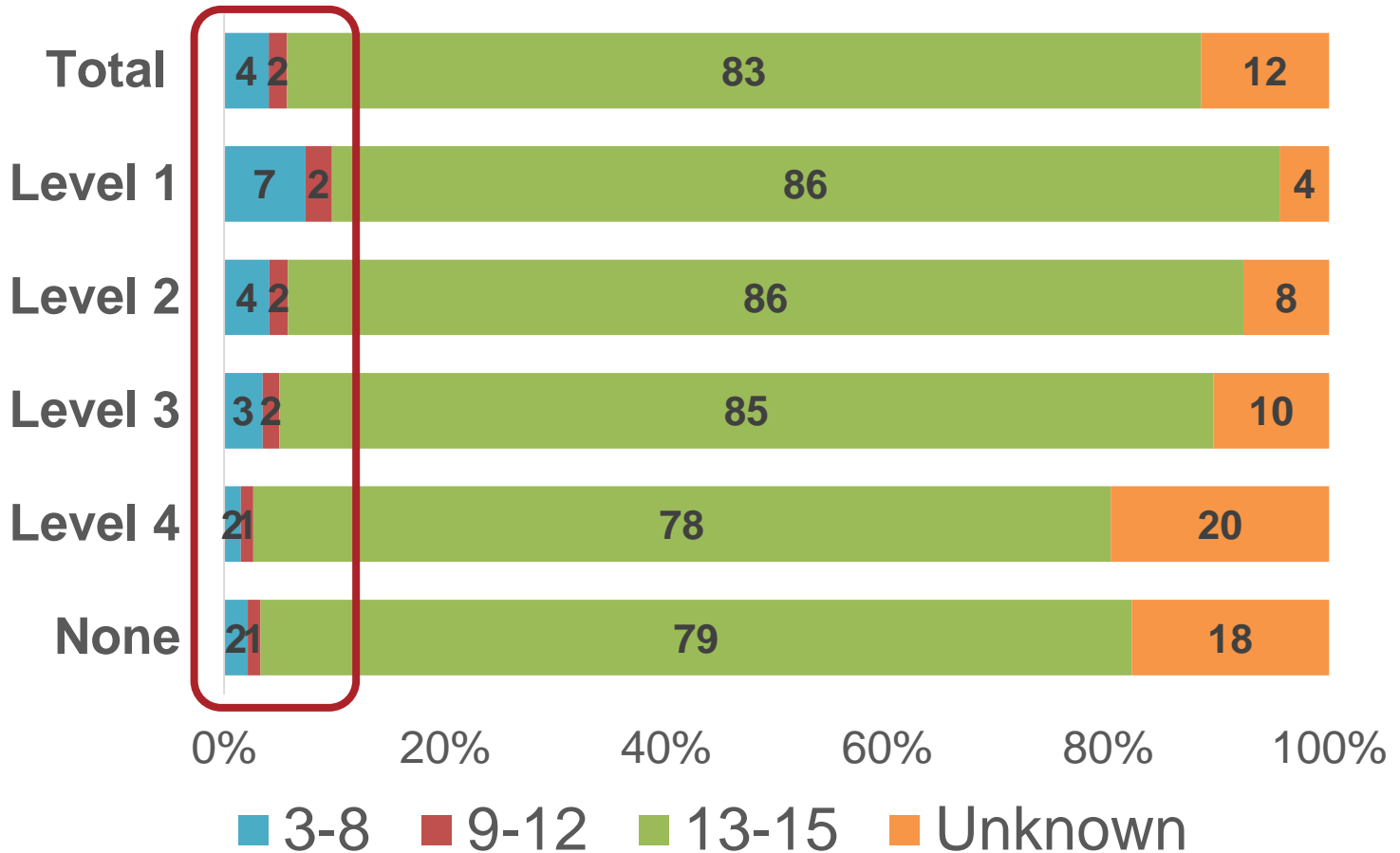
Percent of Trauma Records by Initial Glasgow Coma Score (GCS) and Hospital Designation



TEXAS

Health and Human Services

Texas Department of State Health Services



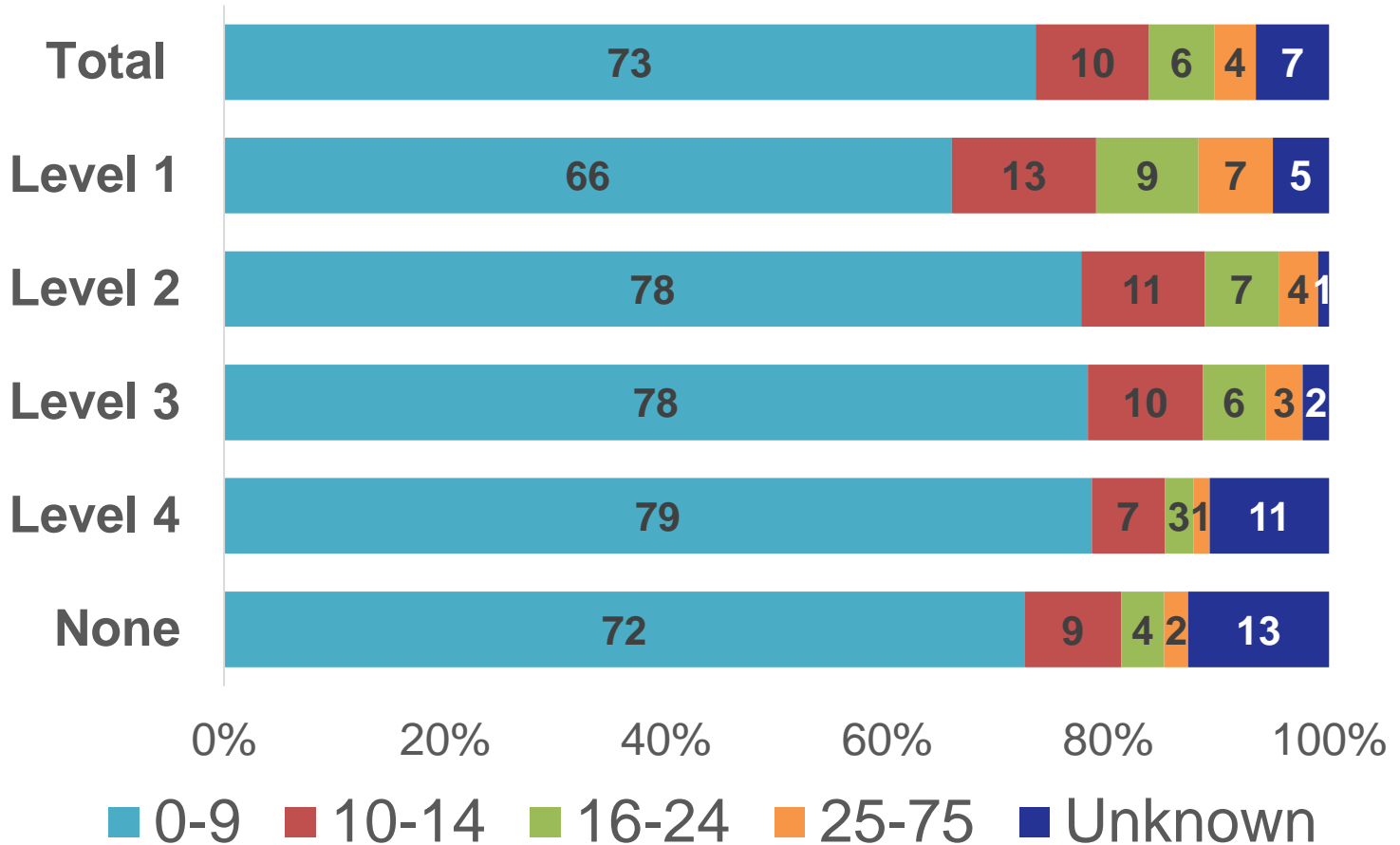
Percent of Trauma Records by Injury Severity Score and Hospital Designation



TEXAS

Health and Human Services

Texas Department of State Health Services



Overview of Shock Records

Texas DSHS Trauma Registry 2016

- **7,095** shock records in 2016 (4.7% of trauma records)
- Reanalyzed since February 2018
- Shock definition:
 - Trauma record AND
 - Initial systolic blood pressure criteria **by age**



TEXAS
Health and Human Services

Texas Department of State
Health Services

Initial Systolic Blood Pressure Shock Criteria

Age Group	Systolic Blood Pressure
0 – 28 Days	< 60 mmHg
1 – 12 Months	< 70 mmHg
1 – 10 Years	< (70+(2*AGE)) mmHg
11 – 17 Years	< 90 mmHg
18 – 64 Years	< 90 mmHg
65+ Years	< 110 mmHg



TEXAS

Health and Human Services

Texas Department of State
Health Services

Pediatric Advanced Life Support (PALS) Algorithms 2018. <https://www.acls-pals-bls.com/algorithms/pals/>

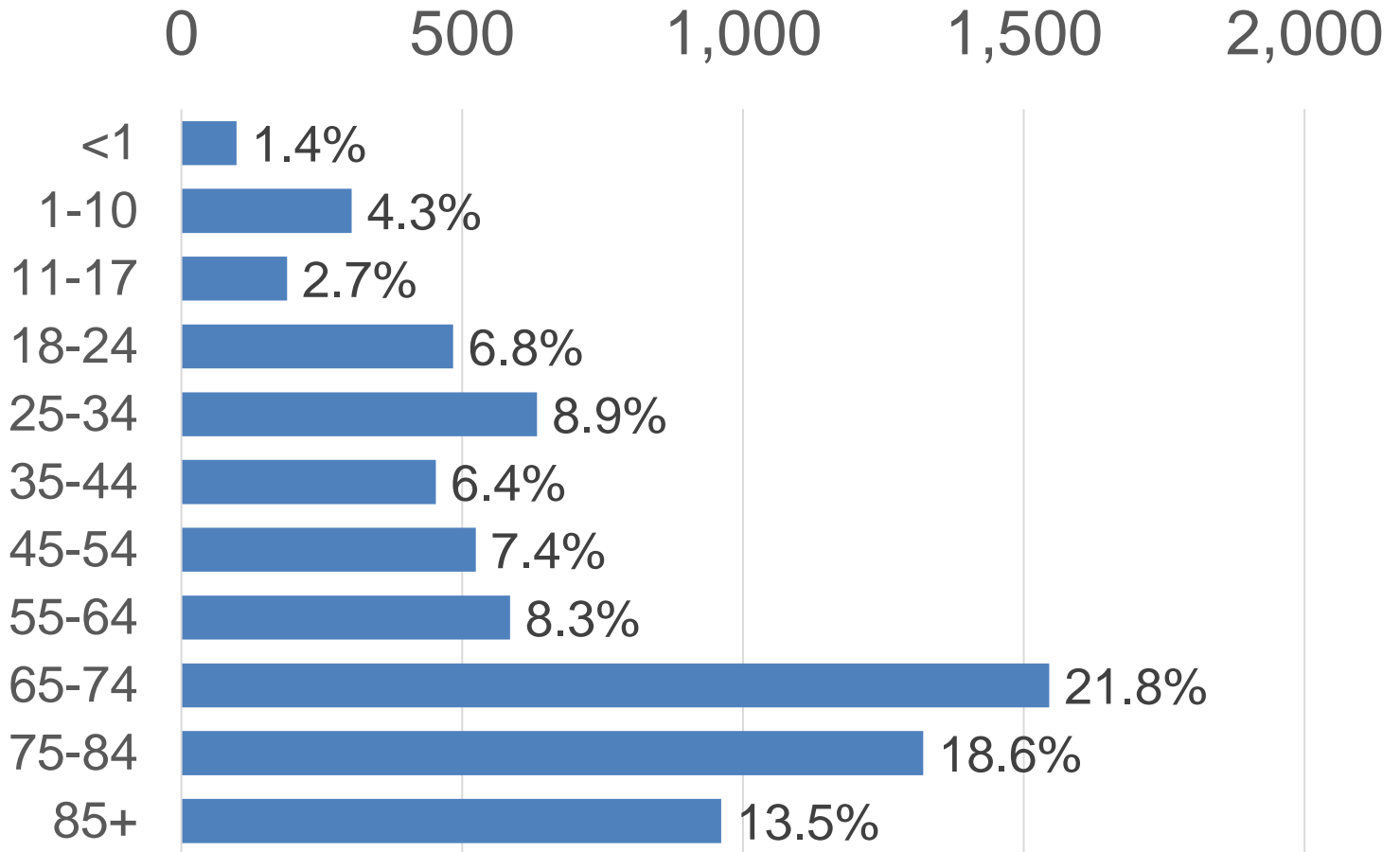
Brown, J. B., Gestring, M. L., Forsythe, R. M., Stassen, N. A., Billiar, T. R., Peitzman, A. B., & Sperry, J. L. (2015). Systolic blood pressure criteria in the National Trauma Triage Protocol for geriatric trauma: 110 is the new 90. *The Journal of Trauma and Acute Care Surgery*, 78(2), 352-9.

Number of Shock Records by Age Group



TEXAS
Health and Human Services

Texas Department of State
Health Services

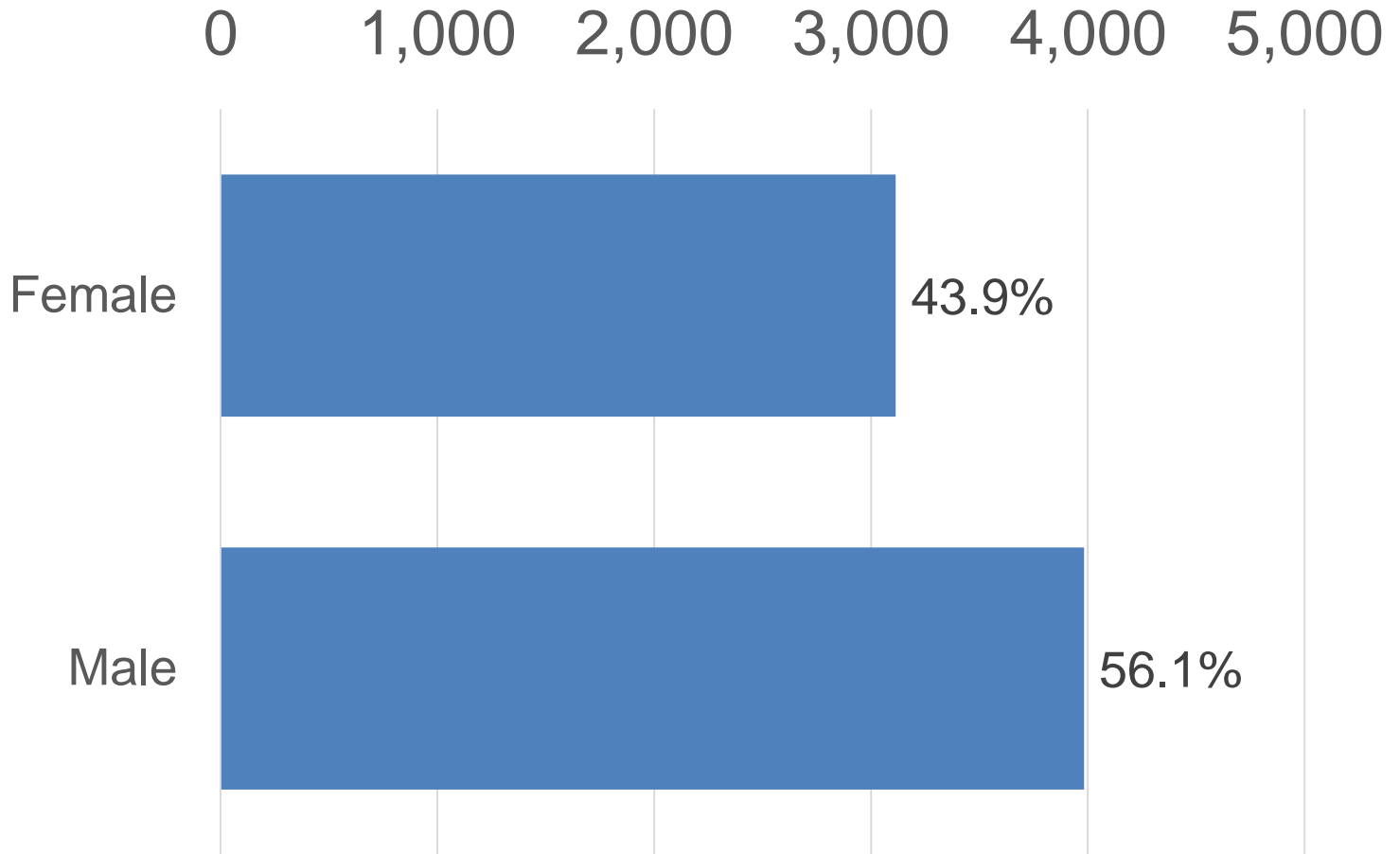


Number of Shock Records by Sex



TEXAS
Health and Human Services

Texas Department of State
Health Services



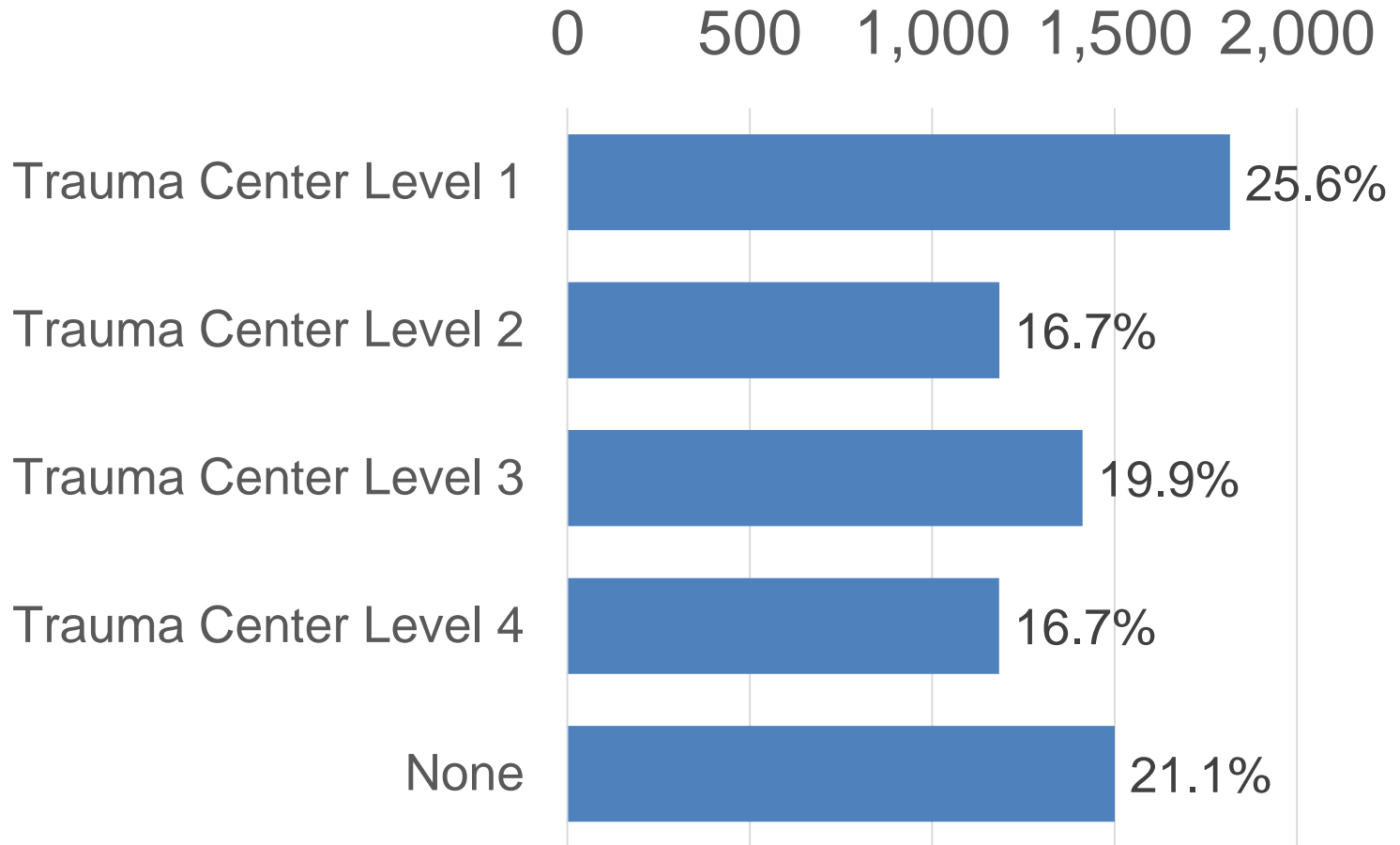
Number of Shock Records by Hospital Designation



TEXAS

Health and Human Services

Texas Department of State
Health Services

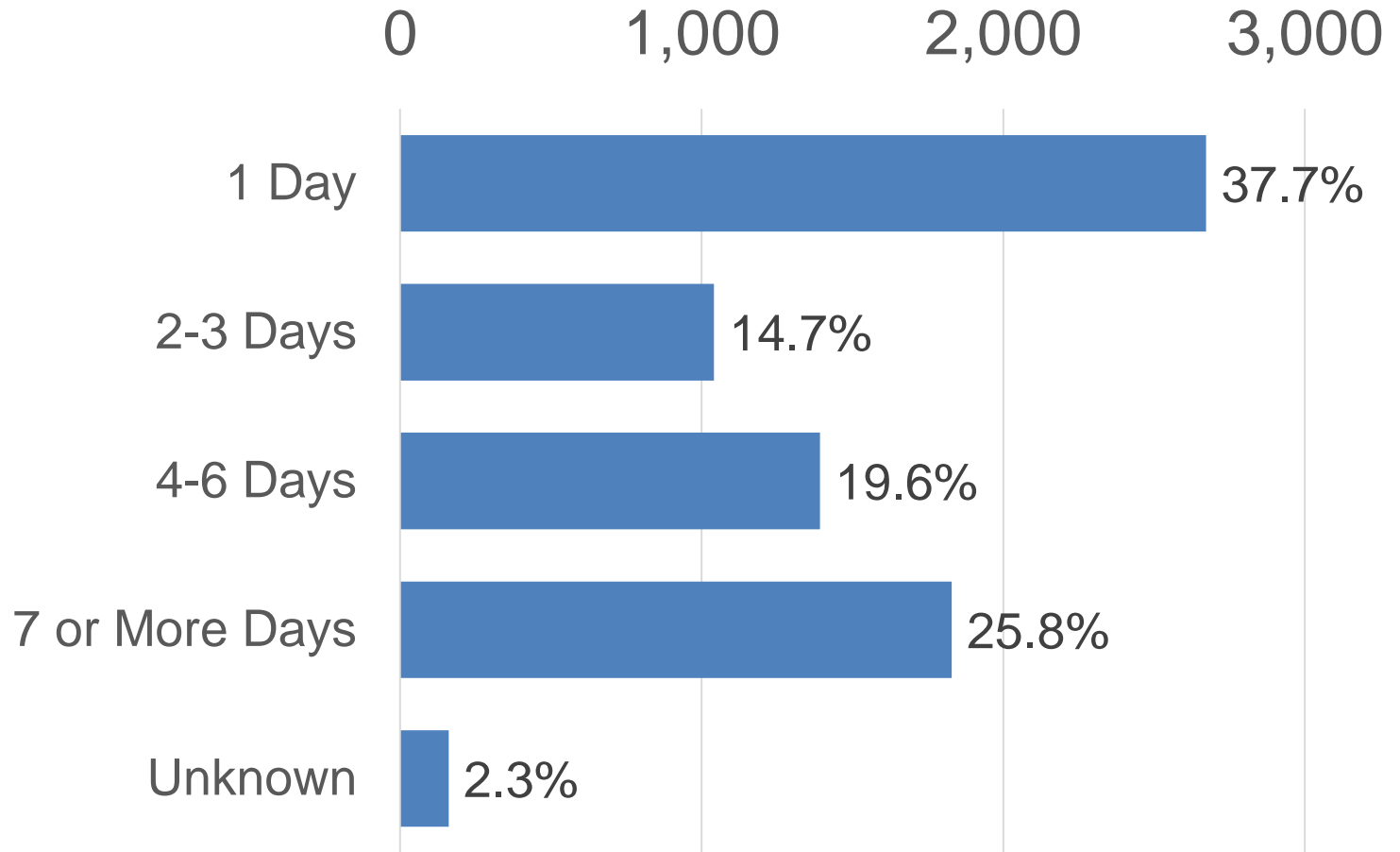


Number of Shock Records by Length of Stay



TEXAS
Health and Human Services

Texas Department of State
Health Services



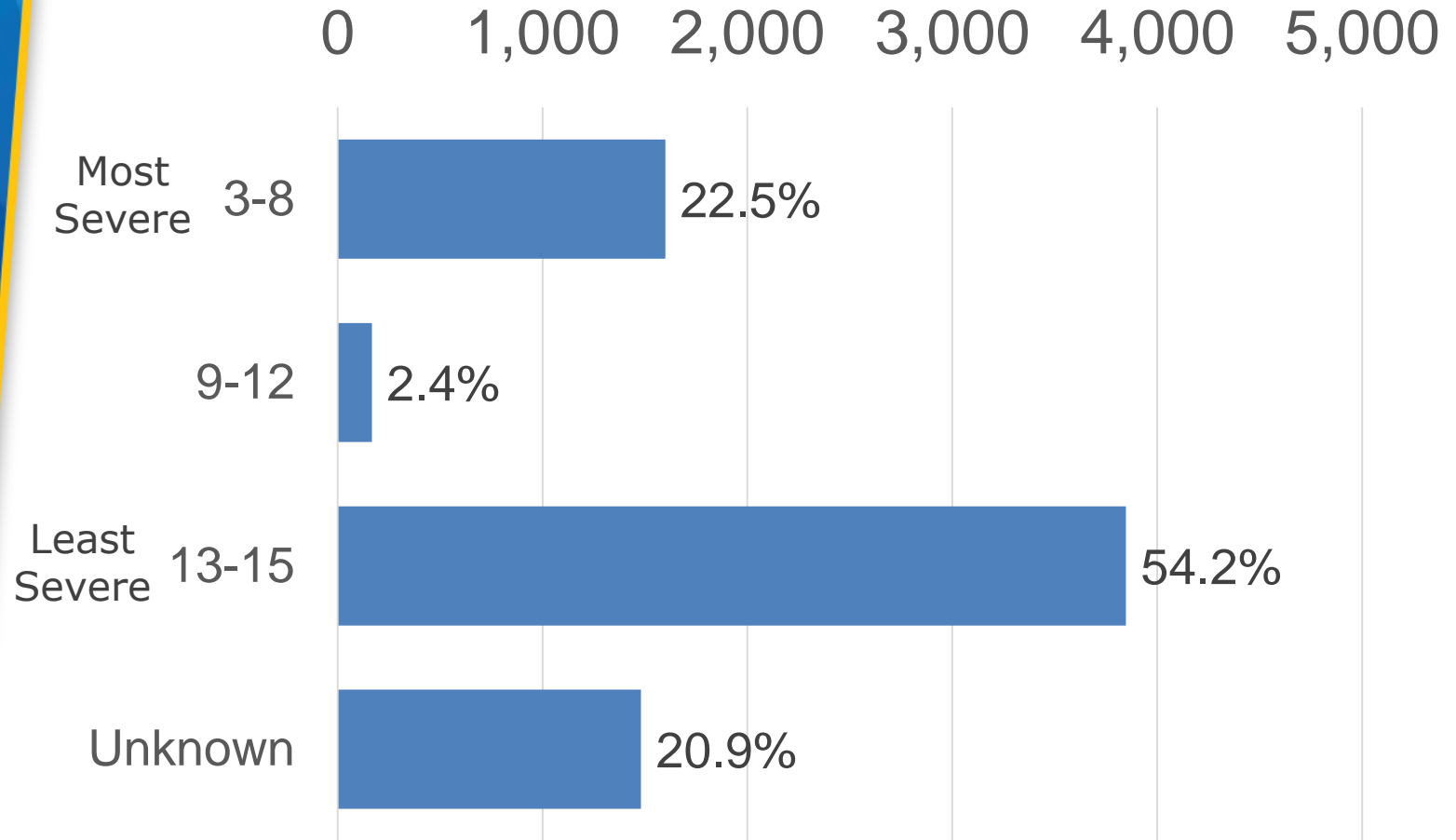
Number of Shock Records by Initial Glasgow Coma Score (GCS)



TEXAS

Health and Human Services

Texas Department of State
Health Services



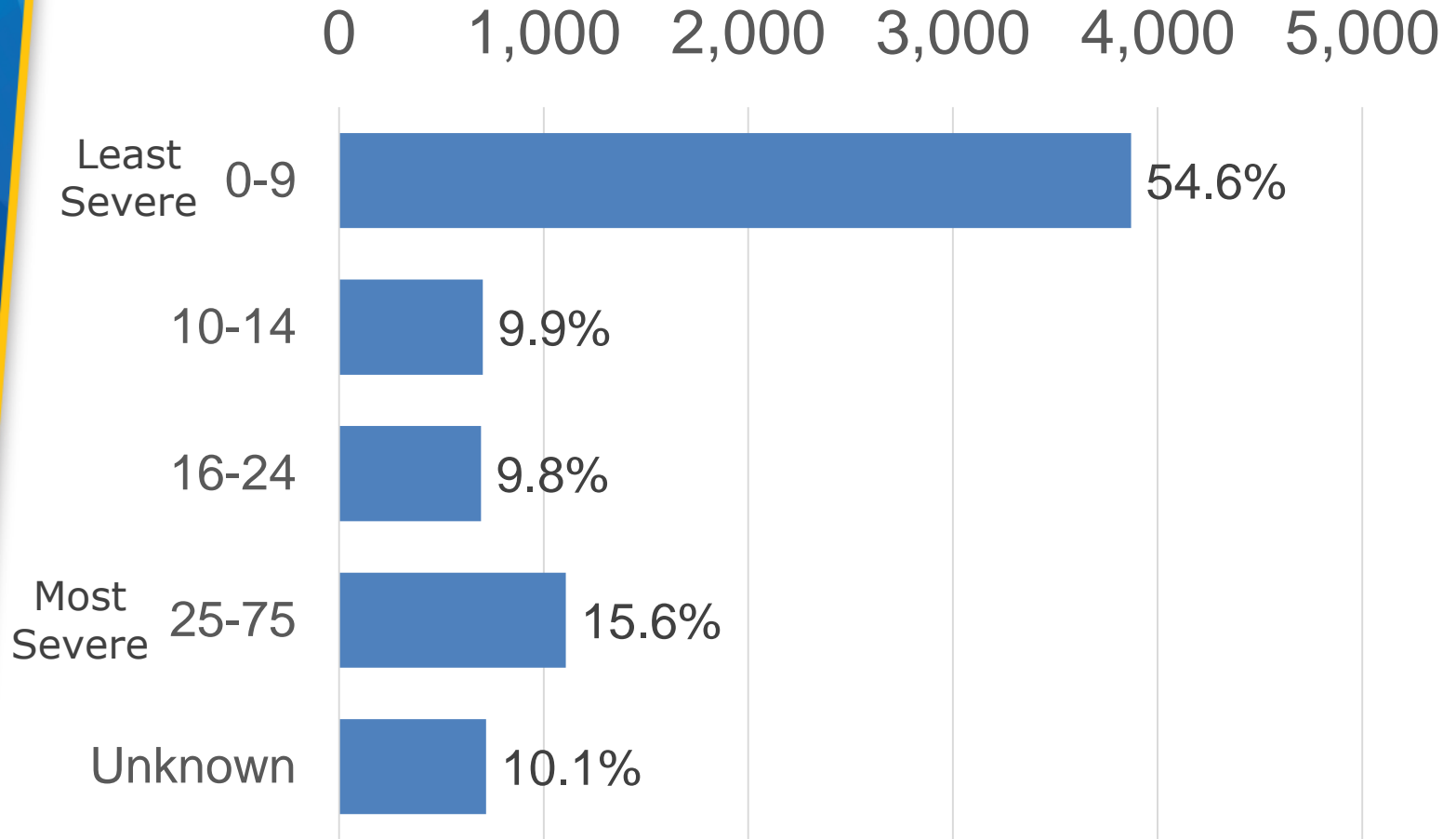
Number of Shock Records by Injury Severity Score



TEXAS

Health and Human Services

Texas Department of State Health Services





TEXAS

Health and Human Services

Texas Department of State
Health Services

Comments/Questions

- Registry Operations Support:
Injury.web@dshs.texas.gov
- Data Analysis and Epidemiology:
Injury.epi@dshs.texas.gov