

The Social Determinants of Trauma: A Trauma Disparities Framework

UPSTREAM Social-Ecological (Population) Life Course Lens Medical Model (Individual) DOWNSTREAM

Institutional (Power)	Social Place (Place)	Discrimination (Experiences)	Behaviors (Comorbidities)	Injury	Disparities Research	Trauma Outcomes
Government Corporations Schools Hospitals Churches Banks/Funding News/Media Income Inequality Structural Racism	Socioeconomic Status Neighborhood/Safety Environmental Quality Housing/Transportation Healthcare Access/Quality Social Support/Integration Employment/Rurality Material Security/Poverty Segregation/Chronic Stress	Age/Gender Race/Ethnicity Class/SES/Language Sexual Orientation Religion/Disability Immigrant/Refugee Stigmatized Groups Poly-victimization Intersectionality	Risk Taking Anxiety/PTSD Depression Alcohol Drug Abuse Hopelessness Aggression/Retaliation Weapon Carrying/Guns Chronic Disease Comorbidities		Ample Risk Adjustment Address Confounding Socioeconomic Data Multi-Level Data GIS/Spatial Analysis Address Missing Data Adequate Sample Size Registry Data Quality Results Messaging	Morbidity/Mortality Longitudinal Outcomes Functional Outcomes Chronic Disease Symptom Control Patient Satisfaction Return to Work Caregiver Burden Quality of Life & Death
Primordial Prevention INEQUITIES Primary Prevention			Secondary Prevention DISPARITIES Tertiary Prevention			

Disparities Interventions Across the Trauma Care Continuum

Detect & Explore Disparities	Integrate Equity into Performance Improvement	Design & Implement Interventions	Evaluate & Sustain Interventions	
<u>Social Services Investment</u> Insurance Expansion Reimbursement Reform Early Childhood Investment Health Impact Assessment Parenting/Family Support Education Financing Reform Housing/Legal Services Equity Social skills/Job Training Mental Health/Drug Abuse Environmental Equity Gun Access & Safety Reform Income Inequality Reform Criminal Justice Reform Advocacy Competence	<u>Patient Factors</u> Biomarkers, Epigenetics Attitudes, Beliefs, Education Health Literacy, Preferences Language, Communication Healthcare System Trust Access to Care, Travel Time Engagement, Adherence Admission Risk Screening: <ul style="list-style-type: none"> • Insurance Status/SES • Childhood Adversity • Violence Exposure • Depression/PTSD • Substance Abuse • Poly Victimization 	<u>Hospital Factors</u> Administrative Commitment Social Justice Messaging Disparities Dashboards Align PI/Equity Incentives Hospital Resources/Quality Hospital Volume/Case Mix Teaching Status Financial Stability Percent Minority Population EMR/Informatics Integration Technology Adoption Patient Advocacy Services Safety Net Hospital Support Regionalization of Care	<u>Workforce Factors</u> Workforce Diversification Pt Staff Dis/Concordance Pt Clinician Communication Language Services Disparities Awareness Implicit Bias Awareness Cultural Dexterity Training Patient Centered Care Clinical Competence Provider Volume/Quality Specialist Availability Staffing Mix/Models Multidisciplinary Teams Interprofessional Training	<u>Performance Improvement</u> Stratify Injury and PI Data By: Race, Ethnicity, Gender, SES, Insurance, Language Clinical Decision Support Bundles/Checklists/Protocols Guideline Adherence Screening Brief Intervention Case Management/Navigators Hospital Community Linkages Rehabilitation Access Community Health Rankings Quality Metrics Development Audit/Feedback/Benchmarking Surgical Quality Collaboratives