## SURF Schedule at a Glance
Friday, July 24, 2015
H-E=B University Center, UTSA Main Campus

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<td>7:00 A.M. – 8:00 A.M.</td>
<td>H-E-B University Center Galleria</td>
<td>Registration</td>
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<td>8:00 A.M. – 8:20 A.M.</td>
<td>Ballroom (HUC 1.104 &amp; 1.106)</td>
<td>Opening Remarks</td>
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<td>8:30 A.M. – 9:45 A.M.</td>
<td>Ballroom (HUC 1.104 &amp; 1.106)</td>
<td><strong>Symposia</strong></td>
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<tr>
<td><strong>Symposium One</strong></td>
<td></td>
<td>Progress in the Treatment Of PTSD in Post-9/11 Active Duty Service Members: A Mini-Symposium of Results from the South Texas Research Organizational Network Guiding Studies on Trauma and Resilience (Strong Start)</td>
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<tr>
<td>Moderator: Dr. John Roache</td>
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<tr>
<td>Presenters and Panel Members: Katy Dondanville, Amy Ramage, Juan C. Aguilera, Brian Creasy, Kristi Pruiksma, &amp; Alan Peterson</td>
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<td><strong>Symposium Two</strong></td>
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<td>Translating Evidence to Bedside Practice at a Military Treatment Facility</td>
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<td>Moderator: COL Lori Trego</td>
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<tr>
<td>Presenters and Panel Members: MAJ Dave Allen, MAJ Tanesha D. Lindsay, Maj Renée I. Matos, 1LT Joshua Goldberg, Ms. Ann Marie Lazarus, &amp; Ms. Darlene Deters</td>
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<td><strong>Symposium Three</strong></td>
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<td>United States Air Force Personalized Medicine Program Panel: Representative Research at the 59th Medical Wing – San Antonio Military Medical Center</td>
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<td>Moderator: Dr. Debra Niemeyer</td>
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<tr>
<td>Panel Members: Col Mark True, Sandra Valtier, Lisa Lott, Victor Sylvia, Maj Rebecca Burson, Maj Adam Willis, &amp; Ms. Michele Tavish</td>
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<td>Time</td>
<td>Morning Oral Presentation Sessions</td>
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<td>10:00 A.M. – Noon</td>
<td>Bexar (HUC 1.102) Focus Area: Pre-Hospital, Emergency, Trauma and Critical Care</td>
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<tr>
<td></td>
<td>Presentation 1</td>
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<td></td>
<td>A Prospective, Randomized Trial of Coagulation Parameters in Hydroxocobalamin Versus Hydroxyethyl Starch Compared to No Treatment for Class III Hemorrhagic Shock in Yorkshire Swine</td>
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<td>Normalynn Garrett, LtCol Vikhyat Bebarta, Maria Castaneda, &amp; Susan Boudreau</td>
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<td>Presentation 2</td>
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<td>Automated Infusion Pump Software (AIPS) Design to Control Blood Pressure</td>
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<td>“Bill” Hao Wu, Ali Seifi, &amp; Sos Agaian</td>
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<td>Presentation 3</td>
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<td>Mitochondrial Damage Associated Molecular Patters (DAMPs) And Gamma Delta T-Cells: Potential Effectors In The Wound Healing Response</td>
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<td>Meenakshi Rani, Qiong Zhang, Travis L. Holloway, Salvador Sordo, &amp; Martin G. Schwacha</td>
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<td>Presentation 4</td>
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<td>When Pigs Fly—<em>Sus Scrofa Domestica</em> as an MRI Model for Hypobaric Non-Hypoxic Exposure Effects Upon the Brain</td>
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<td>Jeremy Bernot, Bradley Carra, Paul Sherman, Derek Mathis, Peter Kochunov, &amp; Stephen McGuire</td>
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<td>Ballroom (HUC 1.104 &amp; 1.106) Focus Area: Military and Veteran Public Health and Wellness</td>
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<td>Presentation 1</td>
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<td></td>
<td>Utilization of VA, Military, and Community-Based Care Among OEF and OIF Veterans with PTSD</td>
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<td>Michael Mader, Mary Bollinger, Elizabeth K. Haro, Mary Jo Pugh, Hector A. Garcia, Jacqueline A. Pugh, &amp; Erin P. Finley</td>
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</table>
Presentation 2
Preoperative Simulation Education for Veterans Reduces Anxiety, Increases Knowledge and Satisfaction
Bonnie Haupt

Presentation 3
PTSD Care Practices and Education Preferences Among Community-Based Prescribers and Psychotherapy Providers in Texas
Erin P. Finley, Polly H. Noel, Shuko Lee, Elizabeth K. Haro, Hector A. Garcia, Mary Jo Pugh, & Jacqueline A. Pugh

Pecan (UC 2.01.26) Focus Area: Regenerative Medicine

Presentation 1
Locally Administered Immunomodulation for the Maintenance of Vascularized Composite Allotransplants
Lin Wang, Sharon Lawson, C. Anton Fries, & Michael Davis

Presentation 2
TSPAN8 Expression Distinguishes Spermatogonial Stem Cells from Progenitors Among Neonatal Mouse Undifferentiated Spermatogonia
Brian P. Hermann, Thu Nguyen, Kazadi Mutoji, Christopher B. Geyer, Amy Kaucher, John R. McCarrey, & Jon M. Oatley

Presentation 3
Identification of a Novel Therapeutic Target for Treatment of Gastrointestinal Colonization with Multi-Drug Resistant Acinetobacter Baumannii
Patrick Ketter, M. Neal Guentzel, Rishein Gupta, Jieh-Juen Yu, James Chambers, & Bernard Arulanandam

Presentation 4
Hydrogen Sulfide Delays Onset of Acute Rejection in Porcine VCA Model
Sharon D. Lawson, Capt Lin C. Wang, Charles Anton Fries, & Lt Col Michael Davis

Hidalgo (HUC 2.214) Focus Area: Behavioral Health

Presentation 1
Collaboration with Community Mental Health Service Providers: A Necessity in Contemporary Schools
Victor Villarreal, & Felicia Castro-Villarreal
Presentation 2
The UTHSCSA Transitional Care Clinic: State of The Art Care, Training, and Research
Dawn I. Velligan, Melissa M. Martinez, Mark Soucy, Megan Fredrick, and David L. Roberts

Presentation 3
Nurse Initiated Therapeutic Music on an Inpatient Surgical Ward
LT Svetlana Taylor, Juan Mendoza, & Ann Marie Lazarus

Mesquite (UC 2.01.24)

Special Session: Hearing Health–Policy, Practice and Collaboration

Presentation 1
The Epidemiology of Hearing Injuries, Noise Exposure and Hearing Loss in the Military
David Gimeno, Jose A. Betancourt, David L. Tucker, Kristina W. Whitworth, Natasha S. Gorrell, Tanisha L. Hammill, MAJ Andrew J. Senchak, & Col Mark D. Packer

Presentation 2
The Defense Hearing Center of Excellence Overview
Col Mark Packer

Presentation 3
The Department of Defense Hearing Center of Excellence (HCE) Auditory Fitness for Duty (AFFD) Collaborative Research Working Group
Maj Kwame Curtis

Presentation 4
The Department of Defense Hearing Center of Excellence (HCE) Pharmaceutical Interventions in Hearing Loss (PIHL) Collaborative Research Working Group
Col Mark Packer & Tanisha L. Hammill

Noon – 1:00 P.M.  Ballroom (HUC 1.104 & 1.106)  Lunch
Lunch tickets will be provided to all pre-registered guests at the registration table.

1:00 P.M. – 3:00 P.M.  Afternoon Oral Presentation Sessions
Travis (HUC 2.202)  Focus Area: Pre-Hospital, Emergency, Trauma and Critical Care

**Presentation 1**
En Route of Parental Opioids, Ketamine, and Epidural Analgesia to Treat Pain in Patients Transported Out of the Combat Theater by US Air Force Critical Care Air Transport Teams (CCATT)
Stephanie Russell, Alejandra Mora, Victoria Ganem, & LtCol Vikhyat Bebarta

**Presentation 2**
A Culture Change for Hospitals and Caregivers: Postpartum Hemorrhage as a Trauma and Utilization of Compression Sutures to Reduce Peripartum Hysterectomy
MAJ Richard Meter, Capt Karla Davila, & LTC Kathy Porter

**Presentation 3**
Acute Traumatic Coagulopathy on the Contemporary Battlefield: Impact of Traumatic Brain Injury on Coagulation, Blood Transfusion Requirements and Survival
COL Robert Gerhardt, & MAJ James A. Falcon

**Presentation 4**
Microstructural Features Correlate with Improved Clot Strength Of Cold-Storage Platelets
Prajeeeda Nair, Shaunak Pandya, Kristin Reddoch, Shatha Dallo, Heather Pidcoke, Andrew Cap, & Anand Ramasubramanian

Harris (HUC 2.212)  Focus Area: Community Public Health and Wellness

**Presentation 1**
Increasing Low Sodium Options in the Workplace: San Antonio’s Sodium Reduction Initiative (Cafeteria)
Erica T. Sosa, Sara Ullevig, & Ellen Spitsen

**Presentation 2**
The Witte Museum’s H-E-B Body Adventure: Transforming Health through Civic Engagement and Data
Bryan Bayles, Thomas L. Schlenker, John Berlanga, & Anil T. Mangla
Presentation 3
Tuberculosis Prevention and Care Services for Bexar County – A Collaborative Approach
Tommy Camden

Presentation 4
Latino Fathers: What is Their Role in the Sexual Education of Their Children?
Viviana Rojas, Thankam Sunil, & Shamshad Khan

Bexar (HUC 1.102) Focus Area: Scientific Other

Presentation 1
Eosinophil Medicated Brain Pathology During Murine Neurocysticercosis
Pramod K. Mishra, Qun Li, Luis E. Munoz, Elizabeth G. Morris, Judy M. Teale, & Astrid E. Cardona

Presentation 2
A Numerical Estimate Of Visual Incapacitation Due To Primary Blast Exposure
Matthew Reilly, Walter Gray, William Sponsel, Daniel Sherwood, Randolph Glickman, & Brian Lund

Presentation 3
Identification of Predictive Disease-Specific Protein Biomarkers for Clinical Relapses and Treatment Efficacy of Multiple Sclerosis
Itay Raphael & Thomas G. Forsthuber

Presentation 4
Protective Efficacy of Chlamydial-Protease-Like Activity Factor Against Genital C. Trachomatis Infection in Guinea Pigs

3:00 P.M. – 4:30 P.M. Ballroom (HUC 1.104 & 1.106) Poster Session
Refreshments will be served.

Poster 1
Partnering with Faith Based Organizations to Enhance Positive Outcomes for Home Bound Seniors
Linda Moore

Poster 2
Effects of \textit{in Vivo} Isolated Low Level Primary Blast Overpressure in Dutch Belted Rabbit Corneal and Retinal Tomographic Responses
Kirstin Jones, Jae Hyek Choi, William E. Sponsel, Walt Gray, Sylvia L. Groth, Randolph D. Glickman, Matthew A. Reilly, & Brian J. Lund

Poster 3
Failure Pressures of Three Rhinologic Dural Repairs in a Porcine Ex Vivo Model
Ryan Lin, Erik Weitzel, Philip Chen, Kevin McMains, Jacob Majors, & Leon Bunegin

Poster 4
Interrelationships Between Platelet Activity and the Immunoinflammatory Response to Severe Injury
Martin G. Schwacha, Rachel S. Morris, Beverly S. Schaffer, John B. Lundy, Heather F. Pidcoke, & Andrew P. Cap

Poster 5
A Descriptive Analysis of Trauma Patients Evacuated by Critical Care Air Transport Team (CCAT) of the Combat Theater (2007-2013): A Preliminary Report
Shelia Savell, & LtCol Vikhyat Bebarta

Poster 6
Ocular Trauma—Induced Changes in Aqueous and Plasma Biomarker Expression Levels
Jessica Hernandez, Matthew A. Reilly, Walter Gray, Brian Lund, William E. Sponsel, & Randolph D. Glickman

Poster 7
Characterization of Platelet Activation and Microvesicle Phenotype in Rat Model of Trauma and Hemorrhage
Bijaya K. Parida, Nicolas Prat, Jacopo Chen, Robbie K. Montgomery, Xiaowu Wu, Daniel N. Darlington, & Andrew P. Cap

Poster 8
Measurement of Maximal Flow Rate of Oxygen Regulators in an Academic Emergency Department
Brit J. Long, & Stephen M. Carroll

Poster 9
Mechanisms of Enhanced Thrombin Generation in Room Temperature vs. Cold- Stored Platelets
Kristin Reddoch, Robbie Montgomery, Heather Pidcoke, Anand Ramasubramanian, & Andrew Cap

Poster 10
A 3 Year Analysis and Comparison of Opioid Prescribing Practices by Emergency Department Providers in the Military Community for Chronic Pain
Victoria J. Ganem, Alejandra G. Mora, & LtCol Vikhyat S. Bebarta

Poster 11
A Prospective Observational Study of Medical Toxicology Consultation in a US Combat Theater
Maj Joseph K. Maddry, LtCol Vikhyat S Bebarta, & Maj Daniel J. Sessions

Poster 12
Blood Administration during Critical Care Air Transport Team (CCATT) Evacuation out of Theater Is Associated with Adverse Hemodynamic Events Regardless of Pre-Flight Hemoglobin Levels
Jennifer A. Becerra, Alejandra Mora, Victoria Ganem, & LtCol Vikhyat S. Bebarta

Poster 13
Prehospital and En Route Cricothyrotomy Performed in the Combat Setting: A Prospective, Multicenter, Observational Study
Edward B. G. Barnard, Alicia T. Ervin, Robert L. Mabry, & Vikhyat S. Bebarta

Poster 14
Effects of Combined Exercise on Cognitive Function and Plasma Amino Acid in Female Elders
Nan Hee Lee, Chung Moo Lee, & Sukho, Lee

Poster 15
Pre-Hospital En Route Care and Life-Saving Interventions of Traumatically Injured Combat Patients Transported by Medevac from the Point of Injury
Lauren Reeves, Crystal A. Perez, & Joseph K. Maddry

**Poster 16**

Preliminary Analyses of the Reliability and Correlates of the Revenge Attitudes Inventory-24
Melina Acosta, Casey Szajnecki, & Augustine Osman

**Poster 17**

Analysis of Medevac Providers and Procedures Performed En Route from Point of Injury to a Military Treatment Facility in Combat
Alejandra Mora, Crystal Perez, & Maj Joseph Maddry

**Poster 18**

A Randomized Trial of Intravenous Hydroxocobalamin Compared to Whole Blood for Hemorrhagic Shock Resuscitation in a Prehospital Swine Model
LtCol Vikhyat Bebarta, Normalynn Garrett, Maria Castaneda, & Susan Boudreau

**Poster 19**

The Effect of the Biomodulator on the Biopsychosocial Secondary Sequelae of Chronic Low Back Pain in Active Duty Military Service Members
Ann Nayback-Beebe, Sonya M. Arzola, Laura Feider, Angela Simmons, & Brandon Goff

**Poster 20**

Isopropyl Alcohol Nasal Inhalation Intervention of Nausea in the Emergency Department: A Randomized Placebo-Controlled Human Trial
Sue L. Love, Kenneth L. Beadle, Antonia R. Helbling, & Curtis J. Hunter

**Poster 21**

Effects of Elevated Pressure and High Glucose Concentrations on Select Eye Cell Functions
Kristen A. Hamalainen, Marissa E. Wechsler, Rena Bizios, & Matthew A. Reilly

**Poster 22**
Use of Pet Therapy in an Inpatient Behavioral Health Setting
Lt Kelly N. Lonergan

**Poster 23**
Herpes Simplex Virus Seroprevalence and Seroconversion among Active Duty United States Air Force Members with HIV Infection
Jared Cohen, Amanda Sellers, T.S. Sunil, Peter Matthews, & Jason Okulicz

**Poster 24**
Capt John C. Hunninghake, CPT Nathan Boyer, Eboniece M. Cason, Maj Renee I. Matos, Maj Raquel G. Trevino, & LtCol Shannon G. Womble

**Poster 25**
Potential Biomarkers and Stevens Johnson Syndrome, Toxic Epidermal Necrolysis
CPT Amanda J. Laska, LtCol Marie J. Han, & Maj Thomas M. Beachkofsky

**Poster 26**
Differentiation of Adult Human Mesencymal Stem Cells Exposed to Alternating Electric Current at the Population and Single-Cell Levels
Marissa E. Wechsler, Brian P. Hermann, & Rena Bizios

**Poster 27**
Building A Healthy Temple Cancer Primary Prevention Program amongst Hispanics
Summer Wilmoth, Lauren Correa, Elena Martinez, Meixia Pan, Raymundo Mendoza, Deborah Parra-Medina, Luz-Myriam Neira, Erica Sosa, Zenong Yin, & Meizi He

**Poster 28**
A Systematic Review of Executive Level Leadership Competencies in Chief Nurse Executives/Officers
David Allen, Sonya Arzola, & Susan J. Appel

**Poster 29**
Prevalence and Impact of Anemia on Basic Trainees in the U.S. Air Force
Kathryn E. Myhre, Bryant J. Webber, Thomas L. Cropper, Juste N. Tchandja, Dale M. Ahrendt, Christopher A. Dillon, Roy W. Haas, Samantha L. Guy, Mary T. Pawlak, & Susan P. Federinko

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Comparison of Pachymetry Measurements between the Alcon Wavelight EX500 and Sonogage Corneo-Gage Plus Platforms
Timothy Soeken, Douglas Apsey, James Townley, Roy Haas, & Matthew Caldwell

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Tinnitus and Vestibular Dysfunction in Iraq And Afghanistan Veterans: Prevalence and Associated Comorbidities
Alicia A. Swan, Carlos A. Jaramillo, Blesson C. Eapen, & M.J. Pugh

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Promoting Vascularization of Synthetic Grafts for Bone Tissue Regeneration
Rebekah Rodriguez, Laura Gaviria, Joo Ong, & Teja Guda

Poster 33
We Leap: A Community Training Program for Future Healthcare Professionals
Kavina Patel, & Farhan Ahmad

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PTSD Does Not Discriminate! A Unique Simulation in OB!
Jackie Riley-Baker, & Bertha E. “Penny” Flores

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Do Spermatogonial Stem Cells Need Sertoli Cell-Derived Gdnf Production for the Maintenance of Spermatogenesis in the Adult Mouse Testis?
Jennifer M.Mecklenburg, Marilyn Cisneros, Edward M. Eddy, & Brian P. Hermann

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Regulation of GDNF Responsive Genes by PLZF and SALL4 in Mouse Spermatogonial Stem Cells
Dawn L. Lovelace, Zhen Gao, Kazadi Mutoji, Jianhua Ruan, & Brian P. Hermann

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Triple Negative Breast Cancer Responds to a Single Dose of Photodynamic Therapy
Nuha B. Kadri, Nizar I. Alyassin, Justin A. Avila, Aryana J. Cruz, Louis J. Cruz, Steve D. Holliday, Zachary S. Jordan, Cameron A. Ruiz, Jennifer L. Watts, & Matthew J. Gdovin

Poster 38
Betanectin C—Terminal Cleavage: Understanding the Pathology Underlying Diabetic Complications in Human Renal and Ocular Systems
Behnam Dorraji, & Richard G. LeBaron

Poster 39
Effect Free Radicals on Associative learning in Caenorhabditis Elegans
Robert Garcia, & Edwin Barea-Rodriguez

Poster 40
Single Growth Factor Release from Pla-Based Microparticles for Osteoprogenitor Cell Recruitment
Laura Gaviria, Teja Guda, & Joo L. Ong

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Traveler Demographics, Characteristics of Travel, Personal Protective Measure Use, Mosquito Exposure, and Chikungunya Seroconversion during the Outbreak in the Americas
David A. Lindholm, Edward M. Grant, Todd Myers, Kalyani Telu, Mary Fairchok, Anuradha Ganesan, Mark D. Johnson, Anjali Kunz, David R. Tribble, Tahaniyat Lalani, & Heather C. Yun

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Teen Pregnancy Prevention: An 1115 Medicaid Waiver Approach
Olivia Thornton, & Mario Martinez

Poster 43
Interpenetrating Collagen-Fibrin Hydrogels for Skeletal Muscle Regeneration
Sarah J. Stagg, Beth E. Pollot, Christopher R. Rathbone, Anson Ong, & Teja Guda

Poster 44
Fabrication of Contact Lens for Integrated Photoacoustic Ophthalmoscopic Detection
Andre Childs, Hao Li, & Dani Lewitess

Poster 45
Hydroxyapatite-Carbon Nanotube (Ha-Cnt) Composite Scaffolds for Bone Tissue Engineering
Sergio Montelongo, Alice Hsieh, & Teja Guda, Anson Ong

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Texas Somali Refugees Beliefs in Health, Illness and Help Seeking Behavior
Raege Omar

Poster 47
Head Start and Pre-K for San Antonio School Located Influenza Vaccinations in Bexar County
Clark Petty, & Anil Mangla

Poster 48
Can Collagen/Ha Scaffolds Produce Greater Bone Regeneration with 1/5th Clinical Rhbmp-2 Dosages?
Teja Guda, Stephanie Shiels, Joseph J. Pearson, Suyash Karajgar, Mark Appleford, Joseph Wenke, & Joo L. Ong

Poster 49
The Vast Spectrum of Silk Scaffold Properties
Joseph J. Pearson, Teja Guda, & Joo L. Ong

Poster 50
Predicting Fracture Risk Following Local Bone Injury
Suyash Karajgar, Marcello Pilia, Christopher Rathbone, & Teja Guda

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Psychometric Analysis of the Relationship between Trauma and Resiliency
Casey Szajnecki, Melina Acosta, & Augustine Osman

Poster 52
Architectural Gradient Scaffolds for Subchondral Restoration
Diana Castillo, Sergio Montelongo, Teja Guda, & Joo Ong

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Novel Subnetwork Alignments Reveal Network Components Involved in Pathogenesis in the Malaria Parasite
Hong Cai, Timothy G. Lilburn, Changjin Hong, Jianying Gu, Rui Kuang, & Yufeng Wang

Poster 54
SES Effects on Health Status of GWOT Veterans and their Civilian Counterparts: Laying the Groundwork
Sharon Goodwin

Poster 55
Acute Ischemic Colitis and Portal Vein Thrombosis in a Young Female Smoker on an Oral Contraceptive
John Hunninghake, Brian Murray, Pedro A. Manibusan Jr., Scott Mc Near, Willis Kann, & John Gancayco

Poster 56
Risk Factors Associated with Decline in Adult Obesity – Bexar County, Texas 2010 – 2012
Thomas Schlenker, Anil T. Mangla, & Nhiem Luong

Poster 57
Military-Connected Families and the Deployment Cycle: An Overview of What Counselors Need to Know
Jessica Lloyd-Hazlett, & Shanta’ Atkinson

Poster 58
Building a Platform to Showcase the Hidden Talents of Patients
Anisha Guda, & Sammar Ghannam

Poster 59
Boundless Cart
Robert Trevino

**Poster 60**
*Derivation and in Vitro Expansion of Retina Progenitors from Pluripotent Stem Cells*
Alberto Muniz, & Tiziano Barberi

**Poster 61**
*Central Nervous System Polypharmacy in Iraq and Afghanistan War Veterans: Prevalence and Risk of Overdose and Suicide-Related Behavior*
Kangwon Song, Garen A. Collett, Carlos A. Jaramillo, Jennifer S. Potter, Erin P. Finley, & Mary Jo Pugh

**Poster 62**
*Expression of Heterologous Antigens on Francisella Novicida Surface Proteins to Develop a Biodefense Vaccine*
Cory Nguyen, Xhavit Zogaj, & Karl E. Klose

**Poster 63**
*Evaluation of the Efficacy the iTClamp® for Hasty Compressible Hemorrhage Control Versus a Tourniquet During “Care Under Fire”*
Roland Paquette, Ryan Bierle, Craig Cooley, Kevin King, Rosemarie Ramos, David Wampler, Joel Michalek, & COL Robert T. Gerhardt

**Poster 64**
*In Vitro Comparison of Poly(Methyl methacrylate) and Calcium Sulfate as Carriers for the Local Delivery of Gallium (III) Nitrate to Infected Surgical Sites*

**Poster 65**
*The Effects of a Photo Isomerizing Compound Treatment of Drug-Resistant Cell Lines*
Justin Avila

**Poster 66**
Nitrile Gloves Prevent the Compressor from Detecting a 360 Joule Defibrillation in a Sham Controlled Cadaver Hands on Defibrillation Study
Col David Wampler, Chetan Kharod, Scotty Bolleter, Alison Burkett, Caitlin Gabehart, & Craig Manifold

Poster 67
A Novel Mechanism that Promotes Diabetes Complications in the Renal and Ocular Systems
Robert J. Moritz, Fate Rezapoor, Brandi S. Betts-Obregon, Albert A. Mondragon, Andrew S. Mendiola, Kalpana Parvathaneni, Mary M. Navarro, Hong Seok Kim, Chi Fung Lee, Clyde Phelix, Reto Asmis, Andrew Tsin, & Richard G. LeBaron

Poster 68
Health Literacy: A Health Disparity of the 21st Century
Rhonda Andrew, Carmen Cardenas, Stephanie George, Swetha Gogu, Kimberly Farias, Nicole Michael, Mercedes Rodriguez, Bianca Stimson, & Seshidar Tekmal

Poster 69
Public Health Surveillance for Pertussis in Bexar County, 2011-2014
Rita Espinoza, Donnie Diaz, & Anil T. Mangla

Poster 70
Testing the Gate Hypothesis for Seizure Development: Muscarinic Receptor Modulation of Input/Output through the Dentate Gyrus
Kael McInnis, Jessica Perkins, Robert Brenner, Mark Shapiro, & David Jaffe

Poster 71
Generation of Polyclonal Antibodies of Resistance Cassettes Used to Study Borrelia Burgdorferi Mutants
Sean Vargas, Samantha Valdez, & J. Seshu

Poster 72
Schistosomicidal Oxamniquine Derivative Drug Activity against Human Schistosomiasis
Stacey R. Stahl, Alexander B. Taylor, Xiaohang Cao, Stephen P. Holloway, P. John Hart, Stanton F. McHardy, Timothy J. C. Anderson, & Philip T. LoVerde

Poster 73
*In Vitro* Antimicrobial Activities of Gallium (III) Compounds Against Multidrug-Resistant Isolates of *Acinetobacter Baumannii*

Poster 74
Role of Hypothetical Membrane Proteins in the Patho-Physiology of Lyme Disease
Tamara Williams, Sean Vargas, & J. Seshu

Poster 75
Implementation of Using a Parameter Pal Badge on a Medical Telemetry Ward
LT LeeAnna Daniel, SrA Chelsey Gillespie, A1C Zachary Ferguson, Mrs. Jennifer Van Nostrand, Mrs. Courtney Taylor, Lt Athena Ra Gonzalo, Mrs. Ann Marie Lazarus

Poster 76
Syphilis in Bexar County: Developing a Criterion for Prophylactic Treatment in a City Clinic
Cameron Warner, Cara Hausler, John Berlanga, & Anil Mangla

Poster 77
Validation of a Novel Measure of Sleep Disturbance in Iraq/Afghanistan War Veterans
Catheryn A. Orihuela, & Mary Jo Pugh

Poster 78
Congenital Heart Disease: Collaborating for Improved Care
Elaine Maldonado, & Jamie Archambault

Poster 79
Texas Medicaid 1115 Waiver: Innovative Public Health Financing
Theresa Medina

Poster 80
Live Attenuated *Francisella Novicida* Vaccine Protects Against *Francisella Tularensis* Pulmonary Challenge in Rats and Non-Human Primates
Ping Chu, Aimee L. Cunningham, Jieh-Juen Yu, Jesse Q. Nguyen, Jeffrey R. Barker, C. Rick Lyons, Julie Wilder, Michelle Valderas, Robert L. Sherwood, Bernard P. Arulanandam, & Karl E. Klose

Poster 81
Novel Drug Target for Treating Alzheimer’s Disease: Mitochondrial Pyruvate Carrier
Clyde F. Phelix, Stanton F. McHardy, & George Perry

Poster 82
LtCol Monty Baker, Capt Scott R. Anderson, Deborah Arant-Daigle Jeffrey A. Cigrang, Stacey Young-McCaughan, LtCol Leigh Johnson, & Alan L. Peterson

Poster 83
Lipoproteins Hyper-Expressed from Mutant Strains of *Borrelia Burgdorferi* Confer Protection in the Mouse Model of Lyme Disease Following Tick Challenge
Trever C. Smith II, Ying-Han Lin, Sean Vargas, & J. Seshu

Poster 84
Non-Metabolizable Sugars Affect Biofilm Formation in Eskape Pathogens
Linda Letti Lopez & J. Seshu

Poster 85
The Association between Maternal Education & Low Birth Weight
Ashley I. Pollock, & Cedric A. Taylor

4:30 P.M. – 5:00 P.M. Ballroom Closing Remarks
(HUC 1.104 & 1.106)