

End-Term Summary Report from the College of Health Sciences Fellows

(First Cohort)

May 2020

Council of Fellows

Summary of Key Achievements:

- Established a working model for strategic integration among the Fellows.
- Revised process for application for CHS Grants for Strategic Transformation, including implementation of informational sessions with Faculty.
- Created process for review of CHS Grants for Strategic Transformation.
- Reviewed 11 proposals submitted & provided recommendations for the funding of 5 meritorious grants (2019-2020 cycle):
 - A Longitudinal Study of Interprofessional Education in Rehabilitation Sciences Graduate Students (Connie Summers)
 - Enriching Experiences for Lifelong Student Success: Preparation for citizenship, work and life (Eva M. Moya)
 - Evaluating the Effectiveness of a Service Learning Experience in Graduate Speech Language Pathology Courses (Patricia Lara)
 - Impacts of a 3D printed prosthetic hand and an evidence-based training protocol on children's activity performance and quality of life (Mei-Ling Lin)
 - Neuromuscular Electrical Stimulation (E-Stim) – A Novel Strategy to Improve Insulin Sensitivity (Sudip Bajpeyi)
- Established annual grant reporting guidelines
- Created and implemented an online Fellowship platform on CHS website for general information, proposal guidelines, online submissions, and progress reports.
- Revised application & review process for CHS Grants for Strategic Transformation, including online submission through the College web site.
- Implemented special round of grant application process in Fall 2019.
- Reviewed 9 proposals & provided recommendations for the funding of 7 meritorious grants (2020 cycle):
 - Young Stars Strength and Conditioning Program Development (Sandor Dorgo)
 - Mentoring and Research Training Program for Undergraduate Students in the College of Health Sciences (Gregory S. Schober)
 - The multimodal neurostimulation-based treatment for depression (Anita Bialunska)
 - Cutting-Edge Diagnostics for Combating Antimicrobial Resistance (Delfina C. Domínguez)
 - Health and Healthcare Utilization of Hispanic/Latino Subsidized Housing Residents in the Border Region (Hyejin Jung)
 - Acute Altitude Exposures Effects on Cognition, Muscle Function, Mobility, Metabolism, and Marksmanship: A Translational Study for Improving Field Manuals and Standard Operating Procedures for the Modern Warfighter (Cory M. Smith)
 - From Military Boots to Books: Examining the Facilitators and Barriers in College life Adjustment and Well-Being for Student Veterans in EPCC and UTEP (Emre Umucu)

- Reviewed applications for the next cohort of CHS Fellows & provided recommendations for awarding 4 new Fellows:
 - Thenral Mangadu, Global Engagement
 - Emre Umucu, Applied and Transitional Research
 - Patricia Lara, Interprofessional Education
 - Elizabeth Camacho, Community Engagement
- Reviewed 5 grant reports from 2019-2020 cycle.
- Determined a submission schedule for the next cohort of Fellows:
 - Fall semester- submission of grant proposals
 - Spring semester- new Fellows applications.
- Created a hand-off plan for the new Fellow cohort, including continued mentorship.

Dr. Dahlia Castillo (Community Engagement Fellow)

Summary of Key Achievements:

- Completed Community Engagement Training March 1, 2019 provided by The Center for Civic Engagement with 3 new community partners engaged and present that have led to a more fruitful engagement with UTEP CHS. New partners: Eden Robles, Empower Change; Simon Chandler, EPISD Community Schools; Kerry McKee, Every Little Blessing. Multiple CHS faculty present.
- Attended the Campus Compact Conference in San Diego March 6-8, 2019 and becoming more familiar with options for dissemination for CHS faculty. Plan to submit the UTEP CAPHSR proposal in call for presentations for next year.
- Two poster presentations accepted for presentation at Campus Compact Conference in Seattle, WA for April 2020. Cancelled due to COVID-19.
- UTEP Community of Practice on Aging initiated with a Community Partner Yvette Lugo, Director and Social Worker from the Area Agency on Aging with 2 meetings held and description and aspirations in draft format with plans to provide resources for both UTEP and community partners associated with aging issues in the El Paso region. This will be an ongoing endeavor and the next meeting is planned for July 2019
- Attendance at monthly UTEP Community Engagement Meetings with the intent of bringing health and health related projects into all other colleges and programs.
- Attendance at monthly CAPHSR meetings with several community partners with the intent of increasing CHS attendance for future planning and enhanced community engagement related to courses
- CHS Counsel on Community Engagement formed with the following members:
 - CLS: Elizabeth Camacho
 - Department of Rehabilitation Sciences: Gregory S. Schober
 - Kinesiology: Sandor Dorgo
 - Occupational Therapy: Dahlia Castillo
 - Physical Therapy: Celia Pechak
 - Rehabilitation Counseling: Emre Umucu
 - Speech Language Pathology: Patricia Lara
 - Social Work: Mark Lusk
- Specific training for instructors in CHS on ways to incorporate community engagement into their classes. Scheduled in conjunction with the College of Liberal Arts and the Center for Community Engagement in April 2020 and cancelled due to COVID-19.

<ul style="list-style-type: none"> Update and revitalize the CAPHSR webpage on CHS website with all community engagement council members pictures posted
<p><i>Remaining Plans and Goals:</i></p> <ul style="list-style-type: none"> Create a CHS course for undergraduates that is focused in interdisciplinary community engagement
<p>Dr. Maria Duarte-Gardea (Global Engagement Fellow)</p>
<p><i>Summary of Key Achievements:</i></p> <ul style="list-style-type: none"> Developed an online minor in Global Health (18 credit hours) that included the development of two new courses: HSCI 3313 Foundations of Global Health & HSCI 3395 Seminar in Current Issues in Global Health Participated in the UTEP Global Learning and Engagement Focus Groups Poster presentation: Duarte-Gardea, M. Paez L, Sosa N, Jangannatha R, Santamaria-Ulloa C, Mora Quiros S, Dharmasi S. "Preparing the next generation of underrepresented researchers to address health disparities in in under-resourced rural settings. 16th WONCA World Rural Health Conference. October 12 – 15, 2019. Albuquerque, New Mexico. Provided financial support to Research Assistant Anna Gonzalez to develop a manuscript entitled: Understanding nutrition related determinants of health in high HIV risk communities in Panama Prepared content for a CHS website to centralize information on global health initiatives.
<p><i>Remaining Plans and Goals:</i></p> <ul style="list-style-type: none"> Launch CHS global health website Conduct meeting with researchers from INIDICAST and Universidad de Costa Rica to plan collaborative global health education and research initiatives.
<p>Dr. Alvaro Gurovich (Translational and Applied Research Fellow)</p>
<p><i>Summary of Key Achievements:</i></p> <ul style="list-style-type: none"> Submitted grant as PI with preliminary data from Translational and Applied Research Fellow application: <ul style="list-style-type: none"> NIH R21 Grant (\$373,278 + indirect costs). <i>A 3D synthetic model of the carotid artery to study the effects of exercise-induced blood flow patterns in endothelial cell gene expression.</i> PAR-18-207: NIBIB Trailblazer Award for New and Early Stage Investigators (R21 Clinical Trial Optional). Gurovich AN (PI), Boland T (Co-I, Biomedical Engineer). <i>Not reviewed</i> NIH R21 Grant (\$275,000 = indirect costs). Chronic Dietary Nitrate Intake Decreases Endothelial Cell and Overall Oxidative Stress in Hispanics and Non-Hispanics. PAR-19-092: NIH Exploratory/Developmental Research Grant Program (Parent R21 Basic Experimental Studies with Humans Required). National Institute on Minority Health and Health Disparities (NIMHD). Gurovich AN (PI). <i>Under review</i> NIH Score-2 Grant (\$300,000 + indirect costs). <i>3D synthetic model of the carotid artery to study the effects of exercise-induced blood flow patterns in endothelial cell gene expression.</i> PAR-20-040: Support of Competitive Research (SCORE) Pilot Project Award (SC2) (SC2 Clinical Trial Not Allowed). Gurovich AN (PI). <i>Under review</i>

<ul style="list-style-type: none"> ○ PCORI COVID-19 Targeted Grant (\$1,190,659 + indirect costs). Effects of an eccentric exercise training program in physical and mental health outcomes, muscle mass, oxidative stress, and inflammation in Hispanics individuals recovered from COVID-19. Gurovich AN (PI), Umucu E (Co-I), Tiwari S (Co-I), Peñailillo L (Co-I). <i>Under review</i> ● Preliminary data collected for Exercise-Induced Blood Flow Patterns in the Carotid Artery. Both <i>in vivo</i> and <i>in vitro</i> studies have been completed. <i>3 Manuscripts in preparation.</i> ● Presented educational session at American Physical Therapy Combined Sections Meeting 2020: From Bench Research to Cardiovascular Patient Management. ● Facilitated the consideration of UTEP as a host institution for the Texas Chapter of the American College of Sports Medicine Fall 2019 Lecture Tour. <i>Not awarded</i> ● Fellow funds for graduate research assistant supported a PhD student to finish with studies' molecular analyses and he has being trained in Cadaveric Dissection Anatomy at Texas Tech School of Medicine. ● After his training in Cadaveric Dissection Anatomy, the GA has taught in the SPL program and has being a TA for Anatomy in the PT and OT program. ● Proposal submitted for an educational session at American Physical Therapy Combined Sections Meeting 2021: Heart Rate – Friend or Foe? If awarded, session will be held in Orlando in February 2021. <i>Under review</i>
<p><i>Remaining Plans and Goals:</i></p> <ul style="list-style-type: none"> ● To produce a sustainable Speaker/Round Series with the 'Speaker Series' sub-committee, which will be pursued as member of the CHS Research Committee and mentor of the incoming Research Fellow.
<p>Dr. Celia Pechak (Interprofessional Education [IPE] Fellow)</p>
<p><i>Summary of Key Achievements:</i></p> <ul style="list-style-type: none"> ● Submitted grant as Co-PI with strong IPE focus: <ul style="list-style-type: none"> ○ Education Grant (\$487,444). <i>Integrated Behavioral Care for Underserved Populations through Interprofessional Student Clinical Training Experiences.</i> Texas Higher Education Coordinating Board, Minority Health Research and Education Grant. Carrola P (PI), Pechak C (Co-PI), Shin SM (Co-I), Fierro C (Co-I), Lo C (Co-I), Boyea B (Co-I), Christenberry E (Co-I). Submitted May 6, 2019. <i>Unfunded.</i> ● Submitted and awarded grant as Co-PI that supported IPE training event on July 5, 2019: <ul style="list-style-type: none"> ○ Educational Activity Grant (\$10,000). All of Us Research Program Mini-Grant. Federal Award Identification Number OT2OD023206, CFDA Number 93.93.10. Gainok J (PI), Soli G (Co-PI), Pechak C (Co-PI), Padilla M (Co-PI). Funded May 2019-August 31, 2019. ● Submitted and awarded grant as Co-PI, and initiated study related to IPE: <ul style="list-style-type: none"> ○ Research Grant (\$6290). A Longitudinal Study of Interprofessional Education in Rehabilitation Sciences Graduate Students. UTEP College of Health Sciences Grant for Strategic Transformation. Summers C (PI), Pechak C (Co-PI), Lara P (Co-PI). Funded May 2019-May 2020. <ul style="list-style-type: none"> ▪ Data collection completed. ▪ Manuscript in progress.

- Facilitated the institutional membership and participation of UTEP in the Texas IPE Consortium (using IPE Fellow funds to pay for \$400 annual membership)
- Co-led the hosting of the Texas IPE Consortium Bi-annual Meeting at UTEP on September 26, 2019
 - 28 UTEP; 43 non-UTEP Attendees, 70 total (which was max capacity)
- Co-led the hosting of the TeamSTEPPS Training at UTEP on September 27, 2019
 - 27 UTEP; 37 non-UTEP Attendees (including 9 trainers)
- Provided essential logistical support (through the efforts of IPE Fellow's Graduate Assistant) to the Health-Focused IPE Community of Practice to help them implement their large case-based IPE activities
 - Summer: Focus on Refugee Health (7/5/2019) 228 Students (Occupational Therapy 23, Physical Therapy 38, Social Work 51, Undergraduate Nursing 45, Nurse Practitioner 26, Public Health 12, Texas Tech Medical Students 31)
 - Fall: Focus on Homelessness (10/18/2019) 284 Students (Pharmacy 53, Occupational Therapy 22, Physical Therapy 37, Speech-Language Pathology 20, Social Work 55, Rehabilitation Counseling 5, Undergraduate Nursing 58, Nurse Practitioner 5, Public Health 1, Texas Tech Medical Students 32)
 - Spring: Focus of Transgender Health (2/21/2020) 248 Students (Pharmacy 51, Occupational Therapy 17, Physical Therapy 31, Speech-Language Pathology 14, Social Work 40, Undergraduate Nursing 64, Nurse Practitioner 1, Texas Tech Medical Students 29)
- Recruited and supervised Karla Salamanca as the Student Fellow for Interprofessional Collaboration to facilitate student-led interprofessional collaboration and service
 - Interprofessional team of student leaders held regular planning meetings and Ropes Leadership training
 - Interprofessional student team created plan for interprofessional intramural event (subsequently cancelled due to COVID-19 pandemic)
 - Interprofessional student team organized interprofessional student group to participate in a service project in Project MOVE (subsequently cancelled due to COVID-19 pandemic)
 - When only remote activities were possible, the interprofessional student team created and disseminated a video to promote positivism, hope, and mental health awareness [link](#)
- Used the IPE Fellow funds and graduate research assistant support to improve organization and sustainability of the Health-Focused IPE Community of Practice by:
 - Purchase of supplies to be used for IPE training events
 - Reorganization and revision of documents in the Community of Practice's Dropbox to enhance data collection and tracking

NOTE: Sarah Elkington (Graduate Assistant to the IPE Fellow) made invaluable contributions to most of the aforementioned achievements. Dr. Pechak expresses her deepest gratitude to Sarah for her organizational skills, dedication to IPE, and overall commitment to excellence.

Dr. Carolina Valencia (Teaching and Learning [SoTL] Fellow)

Summary of Key Achievements:

- Submitted grant as Co-PI for Undergraduate Education (\$350,000 for 5 years)

Title: Undergraduate Research in GERiatrics (URGE) Program

Organization: National Institute on Aging (NIA) MSTEM: Advancing Diversity in Aging Research through Undergraduate Education (R25)

FOA number: PAR-17-290 GRANT12860067

Investigators: PI, Dr. Cecilia Fierro, Co-PIs Drs. **Carolina Valencia** and Lourdes Echegoyen

Status: Application submitted on May 21, 2019- Under Review

- Submitted application for ACUE Course in Effective Teaching Practices- Not approved
- Developed a new partnership with **The \$ 100 Solution** a non-profit organization working towards making a sustainable impact around the world to support our student in service-learning
- Developed a new partnership with Social Work (Dr. Eva Moya) to work collaboratively in The \$ 100 Solution projects and make a sustainable impact and to support our student in service-learning
- Utilization of the Teaching and Learning Fellow funds and graduate research assistant support to improve community-based research in rehabilitation initiatives (The \$100 Solution Project). This program promotes high-impact and transformative education, research, and community engagement. The program was implemented in Fall 2019 and continue in Fall 2020 in a course (DRSC 3331) that aimed to satisfy the first Strategic Goal from our College- Enhance student success through transformative education experiences.

This strategy promoted and expanded student's opportunities on community engagement and research through creative activities and is an innovative contribution to our curriculum development. For specifics on each student project, please use the link below.

<https://www.utep.edu/chs/news/community-engaged-scholarship-chs-professor-students-providing.html>

- Students presented the results and learning outcomes in a College poster presentation and national conference. Presentation of Results and Impact (poster exhibit) of DRSC 3331 and Social Work class with the \$100 solution project
<https://www.utep.edu/newsfeed/campus/utep-students-find-solutions-to-address-challenges.html>
- As a result of this new innovative approach (based on The service –Learning Survey) from the 34 students enrolled in the class, 100% Agree and Strongly agree that the community service aspect of this course helped them to see how the subject matter they learned can be used in everyday life 98% of the students agree with the idea of combining service in the community with university coursework should be practiced in more classes at this university. From this experience:
 - Five Abstracts were accepted on December 2019 to NCUR (National Conference on Undergraduate Research). 16 undergraduate students were planning on attending NCUR in Montana on March 2020-Conference was cancelled.
 - Four projects will be published on The \$100 Solution Textbook-2021
 - Three projects were presented at COURI Spring Symposium 2020
 - C.Valencia presented for new partnership between UTEP and The \$100 Solution™ at the The \$100 Solution™ 2020 Annual Meeting (May 29th 2020).
 - Four project were presented at The \$100 Solution™ 2020 Annual Meeting (May 29th 2020)

Remaining Plans and Goals:

6/3/2020

- *Expand The \$100 Solution across the College*