

September 20-21, 2018 **UK Bill Gatton Student Center**

Abstracts

Abstract Title: Plans in Obio's Future Prescribers		
Abstract Title: Plans in Ohio's Future Prescribers		
S. C. Mort, Translational Biomedical Sciences and Heritage College of Osteopathic Medicine, Ohio U		
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D. Henderson, College of Health Sciences and Professions School of Nursing, Ohio U		
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E. A. Beverly, Department of Family Medicine, Ohio U		
Abstract: Background: Opioid misuse is a growing problem in the United States, particularly in the Midwest.		
Current research does not address future prescribers' knowledge, beliefs and post-graduate plans related to		
opioids. Aims: This study aimed to (1) describe medical professional students' perceived impact of the opioid		
crisis, personal experiences, and post-graduate plans and (2) determine if personal experiences with opioids influence students' future plans regarding medical practice and opioids. Methods: A cross-sectional survey of 491		
nurse practitioner (NP), physician assistant (PA) and osteopathic medical (DO) students at Ohio University was		
conducted. Results: Most participants were female DO students (female=62.7%, age=27.2±5.4 years, 80.4%		
Caucasian, 68.2% DO students). More NP students had clinical encounters with drug seeking behavior (χ 2=15.0,		
p=0.001) and had more experience treating acute overdose (χ 2=63.2, p<0.001). NPs reported their families were		
impacted by opioids (x2=13.4, p=0.001) and perceived the opioid crisis as more severe (F2,488=7.13, p=0.001).		
Students with previous clinical experience in drug seeking or acute overdose were more confident in their ability		
to treat addiction (x2=19.3, p<0.001; x2=24.6, p<0.001). Students whose families or communities were impacted		
by opioids were more likely to say their work upon graduation would involve managing addiction (x2=6.4,		
p=0.011; χ2=9.3, p=0.002). Conclusion: All students reported a high level of clinical experience with opioids.		
Clinical and personal experiences related to the opioid crisis influenced post-graduate plans to work with patients		
with opioid-use disorder. The opioid crisis affects medical professional students, and this should be considered		
when developing opioid-related material and providing wellness resources on campus.		
Supported by: This research was funded, in part, by the Ohio University Heritage College of Osteopathic Medicine Research Fellowship.		
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Student		

Substance Abuse















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Abstracts

Oral Presentation

Abstract Title:	Appalachian Status is a Negative Predictor of Post-Mastectomy Breast Reconstruction		
	M. Wetzel, College of Medicine, U of Kentucky		
	R.C. DeCoster, Markey Cancer Center, U of Kentucky		
	M. Stout, College of Medicine, U of Kentucky		
Author(s):	M. Shrout,College of Medicine, U of Kentucky		
	J.C. Burns, Division of Plastic Surgery, U of Kentucky		
	J.M. Webster, Department of Behavioral Science, U of Kentucky		
	H.C. Vasconez, Division of Plastic Surgery, U of Kentucky		
Abstract: Bacl	ground: The benefits of breast reconstruction (BR) are well documented and include increased		
	s well as improved self-esteem, body image, sexuality, and reduced concerns of cancer		
	recurrence. Significant disparities in BR utilization in women from rural areas have been reported; however, no		
	studies have examined BR utilization specifically in Appalachia. The primary goal of this study was to determine if		
	there were differences in BR utilization between Appalachian and non-Appalachian women in Kentucky. Methods:		
	A retrospective (January 2006 – December 2015) cohort study was conducted using population-level data		
	accessed from Kentucky Cancer Registry for female patients diagnosed with breast cancer and treated with		
	atients were divided into mastectomy-only and mastectomy plus BR groups and stratified		
	ppalachian status. A multivariate logistic regression model controlling for various factors was used		
	The likelihood of receiving BR was reported in odds ratios (OR) using a 95% confidence interval		
	Overall, 12,036 patients underwent mastectomy. Of those, 2,822 (23.4%) underwent BR. The rate		
	ppalachian and non-Appalachian women was 15.0% and 26.3%, respectively (p < 0.001).		
Multivariate analysis showed women from Appalachia (OR 0.54, CI 0.48-0.61; p < 0.001) were less likely to			
undergo BR than non-Appalachian women. Conclusion: Women from Appalachia are 46% less likely to undergo BR than their non-Appalachian counterparts. While multiple factors are likely contributory, access to care still			
	enge for these patients. Future efforts aimed at alleviating this disparity should focus on improving		
	nstructive surgeons.		
access 10 1800	Ryan C. DeCoster, MD is supported by a National Institutes of Health (NIH), National Cancer		
	Institute (CA165990) T32: Oncology Research Training for Surgeon-Scientists training grant. The		
Supported by:	content is solely the responsibility of the authors and does not necessarily represent the official		

Supported by: content is solely the responsibility of the authors and does not necessarily represent the official views of the NIH. This research was partially supported by the William S. Farish Endowed Chair in Plastic Surgery.
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	Student	
	Surgery	











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Abstracts

	Oral Presentation	
Abstract Title:	Impact of Early Life Lead and Manganese Exposure on Postural Balance in Adolescents	
Author(s):	 D. McBride, Department of Environmental Health, U of Cincinnati H. Sucharew, Department of Pediatrics, U of Cincinnati A. Bhattacharya, Department of Environmental Health, U of Cincinnati C. Cox, Department of Environmental Health, U of Cincinnati L. Altman, Department of Environmental Health, U of Cincinnati E. N. Haynes, Department of Environmental Health, U of Cincinnati 	
Abstract: PUR	POSE: Lead (Pb) and manganese (Mn) are potentially neurotoxic metals of increasing concern to	
communities loo refinery, a signi investigate the the dual role of association with 2013 (n=510). If date, 74 particip balance. Multiva metals exposur parent educatio and hair Mn (n= (n=67) measure significant relation	communities located near industrial point sources. Marietta, Ohio is home to America's largest ferromanganese refinery, a significant source of ambient Mn. In this Appalachian community-based longitudinal cohort study, we investigate the relationship between early childhood exposure to metals and adolescent postural balance. Given the dual role of Mn as essential and neurotoxic, we hypothesize biomarkers of Mn exposure will exhibit a negative association with motor function. METHODS: Children ages 7-9 were enrolled into the ongoing study from 2008-2013 (n=510). Biomarkers collected in childhood include blood and hair Mn, blood Pb, and serum cotinine. To date, 74 participants have returned in adolescence for evaluation of neuromotor function, measured by postural balance. Multivariable linear regression models were employed to assess the relationship between early life metals exposure and postural balance in adolescence adjusting for age, sex, height weight ratio, parent IQ, parent education, and number of smokers. RESULTS: Geometric mean and standard deviation for blood (n=65) and hair Mn (n=72) were 9.8µg/L ± 1.3 and 447.4ng/g ± 2.7 respectively. Blood Pb (n=65) and serum cotinine (n=67) measured 0.8µg/dL ± 1.5 and 0.04µg/L ± 8.6 respectively. Adjusted multivariable models show a significant relationship (p=0.02) between low level Pb exposure in childhood and teen postural balance, and a	
marginally significant relationship (p=0.09) between hair Mn and decreased postural balance. CONCLUSIONS: Exposure to low level Pb and elevated ambient Mn in early childhood negatively influences postural balance in		
later teenage years.		
Supported by:	NIH awards: R01 ES016531, R01 ES026446	
B : B		

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Abstracts

	Oral Presentation
Abstract Title:	Reshaping Appalachian Health One Community at a Time: The Accountable Health Communities Model
	A. Trent, Center for Health Services Research, U of Kentucky
	H. Surratt, Center for Health Services Research, U of Kentucky
Author(s):	J. Li, Center for Health Services Research, U of Kentucky
	A. Weverka, Center for Health Services Research, U of Kentucky
Abotract: Dool	M. V. Williams, Center for Health Services Research, U of Kentucky
	(ground: Residents in eastern Kentucky's Appalachian region experience significant health to elevated poverty and unmet social needs. The Kentucky Consortium for Accountable Health
	KC-AHC) project is an academic-community partnership that uses multi-level interventions to
	and quality of care for vulnerable Medicare and Medicaid beneficiaries across 27 counties in
	ky. Methods: Nineteen clinical care sites in eastern Kentucky are participating in the KC-AHC
	medical visits, community-dwelling adult Medicaid and Medicare beneficiaries are offered
	eening for health-related social needs, including food insecurity, transportation, housing, utilities,
	gh risk patients (2+ ED visits in past 12 months) also receive navigation intervention conducted by
	ppropriate community services connection. Results: Screening and navigation intervention roll-out
	gust 1, 2018. Initial piloting of the screening tool in 5 participating clinics revealed the following:
	1 health-related social need with food insecurity most prevalent, and nearly 30% of the 52
	ere high-risk. This is in contrast to the 13% high-risk population projected by CMS. Overall, patients
	to participating in the screening process and receiving community services. Community advisory
	s provided critical input on priorities to increase service accessibility. Conclusions: Implementing
	address social determinants of health in underserved rural settings requires attention to
	paged, culturally congruent, inclusive approaches. KC-AHC offers a unique opportunity to examine plementation and partner alignment in a rural context, with the ultimate goal of improving health
	ural populations.
	Support for this project was provided by Cooperative Agreement Award No. 1P1CMS331581-01-
Supported by:	00, Center for Medicare and Medicaid Services (CMS), U.S
Primary Preser	
	Faculty/Staff/Administrator

Other















September 20-21, 2018 UK Bill Gatton Student Center

Abstracts

Oral Presentation	
Abstract Title:	Contextualizing the Stress Experience of Grandparents Rearing Grandchildren in Rural Central Appalachia
Author(s):	A. Hansen, Department of Sociology and College of Medicine, U of Kentucky
	R. Brown, Department of Sociology, U of Kentucky
	M. Dunfee, College of Medicine, U of Kentucky
	N. Schoenberg, Department of Behavioral Science and College of Public Health, U of Kentucky
Abstract: With	escalating rates of parental substance abuse, addiction, and incarceration in the rural U.S. and
elsewhere gra	ndparents increasingly have stepped into fulfill childrearing responsibilities. The increasing rate of

elsewhere, grandparents increasingly have stepped into fulfill childrearing responsibilities. The increasing rate of custodial grandparenting has been especially widespread in rural Appalachia, a region with sparse resources. The shift in kinship care reflects the resiliency and utility of extended family structures in Appalachia, but presents new challenges for grandparent well-being, including increased social stressor exposure. To better understand the stress experience of rural Appalachian grandparents with primary childrearing responsibilities, we conducted twenty-six in-depth interviews. Interviews were transcribed, minutely coded and analyzed using qualitative standards of rigor. Stress was described as arising from interactions with the parent generation, the transition to the parental role and forfeiture of the grandparent role. Additional sources of stress including worry about their capacity to physically and financially provide for grandchildren. Despite these stressors, grandparents suggested that caregiving was a protective factor against depression and beneficial for their health and activity levels. Moreover, many grandparents indicated a cultural and historical continuity of grandparenting in a culture that traditionally has emphasized extended family ties and extensive social support.

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Abstracts

	Oral Presentation
	Implementation of NCI's Screen to Save: Colorectal Cancer Outreach and Screening
Abstract Title:	Initiative at UK Markey Cancer Center
	M. L. Rogers, Markey Cancer Center, U of Kentucky
	R. C. Vanderpool, College of Public Health, U of Kentucky
Author(s):	B. Huang, College of Public Health, U of Kentucky
	D. A. Armstrong, Markey Cancer Center, U of Kentucky
	M. Johnson, Behavioral & Community Based Shared Resource Facility, U of Kentucky
	T. Pauley, Markey Cancer Center, U of Kentucky
	oduction: The goal of the National Cancer Institute's (NCI) Colorectal Cancer Outreach and
	ative – Screen to Save (S2S) – is to increase colorectal cancer (CRC) knowledge leading to
	s of CRC screening among adults age 50 and older, particularly in medically underserved
	th a high burden of CRC such as the communities of Appalachian Kentucky. In 2017, the University
	arkey Cancer Center implemented S2S educational activities in four counties in eastern Kentucky.
	f this project was to determine if face-to-face, small group education can increase knowledge of
	ms, and CRC screening guidelines. Methods: The S2S research initiative recruited participants from
	ents (e.g., health fairs), and offered a \$10 gift card to complete the intervention. The CRC
	tivities and intervention consisted of a pre-test, followed by a walk-through colon tour and small
0 1	ucational presentation, and completing with a post-test. Results: Markey's S2S events reached
	als with CRC information, and 102 individuals participated in pre- and post-testing CRC educational
	esults suggest that face-to-face, small group education improves CRC knowledge, including
	n of screening guidelines, among adults in rural and Appalachian communities. For example,
	nproved knowledge of screening age recommendations for FIT/FOBT by 60%, and 83% of
	monstrated increased knowledge of age recommendations for colonoscopy screening. Conclusion:
	turally-tailored, personally-communicated CRC education in a community setting shows potential to
improve at-risk	c population's knowledge of CRC risk factors and screening guidelines.
	This research was supported by the Behavioral and Community-Based Research Shared
Supported by:	Resource Facility of the University of Kentucky Markey Cancer Center (P30CA177558) and
	funded by NCI Administrative Supplement: 3P30CA177558-05S2.
Primary Prese	
	Faculty/Staff/Administrator
	Cancer









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