		Oral Presentation
Abstract Title:	Relationship bety HCV-infected Wo	ween Hepatitis C Perception and Likelihood of Antiviral Treatment among men
Author(s):	Obstetrics and Gy Kentucky S. Barn Health, U of Kentu	
infected persor substance use well as their cu about: 1) impor damage and lo and 5) the likelit was determined Results: 28 (88 HCV treatment HCV treatment significant corre care. Conclusion aware of their of treatment to par	is in Kentucky have disorder treatment of rrent infection status tance of receiving H ing-term complicatio hood of seeking HC d using medical reco 5%) of the 33 partici was very important significantly correlated elation between con on: Although HCV te clinical statuses. Effec- tients. In the presen- t education in enhan-	ailability of effective antiviral treatments for hepatitis C virus (HCV), most HCV- not been treated. Methods- Thirty-four HCV-infected perinatal women in were surveyed about their knowledge, attitudes, and beliefs regarding HCV as a and their intention to seek HCV treatment. Participants reported perceptions ICV treatment; 2) severity of HCV, including likelihood of experiencing liver ns; 3) benefits of HCV treatment; 4) barriers/concerns about HCV treatment; CV treatment. Concordance between clinical HCV status and perceived status ords. Exact tests and independent t- tests were used to test associations. pants accurately reported their HCV status. Most women (76%) reported that , and 61% reported a high likelihood of seeking care. Perception of benefit from ted with likelihood of seeking care (p=0.0005), however, there was no cern score (p=0.38) or severity perception (p=0.99) and likelihood of seeking esting among this patient population is routine, some infected patients were not orts need to be put into addressing concerns and emphasizing the benefits of nce of advanced HCV therapies, this study highlights the importance of ncing treatment uptake, even in settings with expanded eligibility coverage. hrough UK ADRS UK PATHways program at Polk Dalton Clinic UK College of irth Program
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		Oral Presentation
Abstract Title:	Common Variab	atures of Bronchiectasis Associated with Alpha-1 Antitrypsin Deficiency, ble Immunodeficiency, and Primary Ciliary Dyskinesia: Results from the tasis Research Registry
Author(s):	MB.BS, Icahn Scl	l, College of Public Health, University of Kentucky, Lexington, KY E. Eden, chool of Medicine, Mt Sinai, NY A. Barker MD, Oregon Health Sciences ital, Portland, OR Bronchiectasis and NTM Research Registry Consortium
Abstract: RAT		iectasis is associated with rare conditions including Alpha-1 antitrypsin deficiency
(AATD), Comm	on Variable Immur	unodeficiency (CVI) and Primary Ciliary Dyskinesia (PCD). The purpose of this
study is to com	pare and contrast t	the clinical characteristics of bronchiectasis associated with these rare
conditions. ME	FHODS: This retro	ospective cross-sectional study included patients with non-cystic fibrosis
		ectasis Research Registry (BRR) diagnosed with AATD, CVI, PCD, and patients
		conditions ('idiopathic') (n=615). RESULTS: Patients with PCD (n=79, mean age
		Inger than AATD (n=58, 66.9±10.7), CVI (n=18, 66.7±10.5), and idiopathic
(n=460, 64.2±15.9), p<.0001. A diagnosis of bronchiectasis was made at a much younger age in those with PCD		
(22.8±15.7) than in the other groups (p<.0001). Significantly greater proportion of patients with PCD reported		
		pspitalizations in the past 2 years compared to other groups (p=0.002 and
		with PCD showed a significantly lower pre-bronchodilator FEV1 and FVC (%
		A greater percentage of patients with PCD reported daily bouts of coughing
		1), and had the greatest proportion of cultures positive for Pseudomonas
aeruginosa compared to other groups (p<.0001). CONCLUSIONS: Our study demonstrates that patients with		
PCD within the BRR are significantly younger, more often report having respiratory symptoms, exacerbations and hospitalizations compared to other groups; their bacterial cultures more frequently show presence of		
Pseudomonas		er groups, men bacterial cultures more frequently show presence of
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	Oral Presentation
Abstract Title:	Teenage Mothers and Breastfeeding: What is the Impact of the Kentucky HANDS Program?
Author(s):	J. Maita, College of Public Health, U of Kentucky S. E. Cprek, Department of Health Behavior & Society, College of Public Health, U of Kentucky C. M. Williams, Department of Health Behavior & Society, College of Public Health, U of Kentucky
Kentucky Heal to all pregnant choose to parti breastfeeding a Kentucky Depa one prenatal h insurance statu models were e no difference in were subgroup prenatal HAND race/ethnicity, overall effect o increasing brea	kground: Breastfeeding rates among teenage mothers are lower than that of all other ages. The th Access Nurturing Development Services (HANDS) program is a home visiting program available teenage mothers. HANDS visits, both prenatal and postnatal, are free to teen mothers if they cipate in the program. This study examines the effect participation in the HANDS program has on among teen mothers. Methods: HANDS program records and birth certificate records from the artment for Public Health were used in this study. Mothers aged 15-19 years who received at least ome visit between January 2014 and December 2017 (n=2740) were matched based on race and us to women who did not participate in the program. Chi-squared tests and logistic regression stimated in SAS to evaluate preliminary differences in breastfeeding. Results: Overall, there was no breastfeeding among teen mothers by HANDS participation (56.1% vs. 57.8%). However, there o differences: among those with a signed paternity acknowledgement, teen mothers with at least 18 DS visits were more likely to breastfeed (OR=1.4, 95% CI=1.03-1.82), controlling for age, obstetric visits, and urban/rural. Conclusions: HANDS program participation seems to have no ver teenage mothers' decision to initiate breastfeeding. Social support appears to play a role in astfeeding, either through HANDS participation or having a father involved. This results presents stions to further examine such as the significant relationship between social support and
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	U	
Oral Presentation		
Abstract Title:	Sexual Risk-Taking Behaviors among Young Central Kentucky and Usage of Social Netwo	
Author(s):	V.O. Pravosud, Department of Epidemiology, U	of Kentucky
networking app Methods: Data anal sex with a adjusted logisti participation in positive people results were ve found no signifi just for sex. Mo using apps to m sex was only a respondents we partners for sex	were collected from 253 participants who were bid nother man during the past 6 months, and resided c regression models revealed that number of anal group sex, substance use before/during sex, recta were associated with increased odds of using app ry similar when considering the usage of application icant associations among these behaviors and app preover, increase in condom use during receptive a neet partners just for sex as well as to date, where ssociated with increased odds of app usage to me ere involved in sexual risk-taking behaviors associated and/or to date. However, the reported association specifically for sex.	x, (2) to date, as well as (3) for sex and/or to date. iologically male, aged 18 to 34, had engaged in d in Central Kentucky. Results: Findings from al sex partners (insertive, receptive, or oral), tal douching among partners, and sex with HIV ops to meet partners for sex and/or to date. These tions to meet partners only for sex; however, we op usage to meet partners to date, not necessarily anal sex was associated with increased odds of reas increase in condom use during insertive anal eet partners only for sex. Conclusion: Many ciated with the usage of applications to meet ons were mostly driven by using applications to
Supported by:	This research was supported by the National Ins DA039740).	stitute on Drug Abuse (NIH NIDA R03
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Oral Presentation		
Abstract Title:	Rural-Urban Diff	erences in Partial Hospitalization Program Availability
Author(s):	Kentucky	llege of Public Health, U of Kentucky T. Borders, College of Public Health, U of
patients to resi the day. Mostly demonstrated a availability of P of hospitals we percentages of through anothe stratified metro hospital charace more also offer hospitals with P More metropol system. There significant. Dis	de at home while re offered in hospital effectiveness compa- PHPs in rural and un re classified as met these hospitals that or provider in their h politan and non-me teristics. Results: Mo ing the services in- higher capacities an itan hospitals did no was a similar absol cussion: Significant	spitalization programs (PHPs) can reduce or avoid inpatient stays by allowing beeving intensive, structured psychiatric services in outpatient settings during settings, PHPs are used for numerous behavioral health conditions and have arable to inpatient services. However, little information exists about the relative ban areas. Methods: A sample of hospitals (N = 4,011) from a national survey tropolitan (N = 2,483) or non-metropolitan (N = 1,528). We compared the t provided PHPs, as well as the percent that offered the services in-house, ealth system, or through another provider as part of a joint venture. We also tropolitan facilities by whether they offered PHPs in-house to compare other fore metropolitan than non-metropolitan hospitals offered PHPs overall, with house or through their health system. Additionally, regardless of location, d patient volumes offered PHPs in-house more often, regardless of location. to offer PHPs in-house if they had established ACOs or were a part of a health ute difference among non-metropolitan hospitals, but it was not statistically by fewer non-metropolitan hospitals offer PHPs than metropolitan hospitals, nts lack access to an effective and versatile form of behavioral health care.
Supported by:	Resources and Se	supported by the Federal Office of Rural Health Policy (FORHP), Health ervices Administration (HRSA), U.S. Department of Health and Human Services perative agreement # U1CRH30041. The information, conclusions
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Oral Presentation		
Abstract Title:	Multiple Imputation by Chained Equations to Avoid Bias in Missing Data with Interactions: A Simulation Study	
Author(s):	N. Wilson, Department of Biostatistics, College of Public Health, U of Kentucky E. Slade, Department of Biostatistics, College of Public Health, U of Kentucky	
random (MAR) implementing M to include inter- one continuous imposed via a analysis (CRA) interaction effe different argum outcome on bo compute bias a biased estimate Utilization of th needing to imp	roper treatment of missing data can lead to biased or invalid results. If the data are missing at , multiple imputation by chained equations (MICE) is one method utilized to reduce bias. When MICE, the imputation model must be compatible with the final analysis model. We aim to show how action terms in the imputation model to ensure valid results are obtained. Data were simulated for s outcome originating from two binary predictor variables and their interaction. Missingness was MAR mechanism. To handle the missing data, four methods were performed: complete records) and three variations of MICE, each with different imputation models that vary in their inclusion of tots. We also investigated two different methods for specifying these imputation models in R using nents in the mice() function. We utilized a final analysis model consisting of linear regression of the oth main effects of the predictors and their interaction. This process was repeated 10,000 times to and coverage. The analyses performed with MICE including all two-way interactions had the least es and appropriate coverages. CRA often led to biased estimates and wide confidence intervals. e MICE package in R is not entirely intuitive and few resources exist online to assist R users element MICE in data with interaction effects. There are caveats that must be included when coding ion procedure, and misspecification can lead to inappropriate results.	
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Poster Presentation 263			
Abstract Title:	Contributing Factors Leading to Suicide in Children: Kentucky 2005-2016		
Author(s):	S. Adkisson, Department of Epidemiology, U of Kentucky S. Brown DrPH, Department of Epidemiology, U of Kentucky		
In ages 10 to 2 scheme to deta limited in the U child dying by s subset of case approach is be investigators. (factors to suici- and social fact morbidity, espe impulse contro triggering even conversation a understand the	aduction: Suicide regularly ranks among the top ten leading causes of death in the United States. 4, suicide is the second leading cause of death. The purpose of this study was to develop a coding ermine reoccurring contributing factors in child suicides from 2005-2016 in Kentucky. Research is inited States on suicides in children and more specifically precipitating circumstances leading a suicide. Methods: We used the Kentucky Violent Death Reporting System data from 2005-2016. A s was generated that included all child suicides in children aged 10-21. A mixed method statistical ing used; the first step is a thematic qualitative using the narrative reports from death scene Once themes have been identified, and a coding scheme developed, reoccurring contributing des were coded for further quantitative analysis. Discussion: There are many complex individual ors that lead up to suicide making it important for practitioners and researchers to consider co- ecially in children, youth and young adults. When there is substance misuse it can lead to a lack of I while also amplifying depression, anxiety, and other risk factors. Raising awareness about ts along with other chronic conditions in children, youth and young adults could lead to more bout suicide and more targeted interventions. More research and resources are needed to ese issues and educate parents, guardians and teachers—for example—about the signs and to suicide in children, youth and young adults.		
	GRANT NUMBER 424128 from the: CENTERS FOR DISEASE CONTROL AND PREVENTION		
Supported by:	(CDC). It's contents are solely the responsibility of the author and do not necessarily represent the official views of the CDC.		

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		Poster Presentation 264	
Abstract Title:	Based Parenting	ls' and Supervisors' Perspectives on Implementation of an Evidence- Program in Appalachian Region	
Author(s):	of Health, Behavio Nutrition, U of Ker J. A. Jacobs, MPH Department of He		
Department of Health, Behavior & Society, U of Kentucky Abstract: Background: The efficacy and effectiveness of behavioral parent training (BPT) interventions in reducing behavioral problems in children is well established. However, low-resource communities experience shortages in programs targeting behavioral problems in early childhood. The Family Check-Up (FCU), an evidence-based BPT intervention, was systematically adapted to fit the needs of a rural Appalachian community. The key adaptation to the delivery of the FCU was the use of local, trusted paraprofessionals in the place of mental health professionals who typically deliver such a program to parents. Paraprofessional interventionists piloted the FCU with 20 families in Appalachian communities. Methods: Using a semi-structured interview guide based on the Consolidated Framework for Implementation Research (CFIR), one-hour key informant interviews were conducted with interventionists (N=5). Interviews were transcribed verbatim. Directed content analysis methods were used, framed by the CFIR constructs, to understand interventionists' experiences with delivering the FCU. Each team member independently coded each transcript, and discrepancies were resolved through discussion and consensus. The codebook was iteratively refined until a sixth and final version was developed. Findings: Consistent themes emerged around intervention compatibility with interventionists' existing job responsibilities. Interventionists discussed the strengths and weaknesses of the training and supervision provided. Common patient needs and resources in the region, levels of tension for change in the community, differences in organizations' leadership engagement, and other themes were also observed. This information will be used to understand the necessary adjustments and strategies for maximizing success in developing a sustainable model for implementing behavioral parent-training interventions in similar rural communities.			
Supported by:	Center for Clinical	ported by NIH/NIMH (R34 MH106661) and NIH/NCATS (through the UK and Translational Science, UL1TR000117 and 8KL2TR000116). The content nsibility of the authors and does not necessarily represent the	
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Poster Presentation 265		
Abstract Title:	Kentucky Access Nurturing Development Services Home Visiting Program Improves Maternal and Child Health Outcomes among Multigravida	
Author(s):	M. Avery, U of Kentucky L. Eminoski Nunez, BPH U of Kentucky B. Matthews, U of Kentucky K.Van Buren, MPH U of Kentucky J. Maita, U of Kentucky M. Manchikanti, U of Kentucky S. Cprek, MPH Department of Health Behavior, U of Kentucky C. Williams, ScD Department of Health Behavior, U of Kentucky	
(HANDS) prog Kentucky's at r multigravida in on multigravida outcomes amo were referred t were referred t received a pren receive a prena HANDS visit w prenatal in-hor (27.2% vs. 32.4 maternal and c	kground and Objectives: Since 2004, Kentucky Health Access Nurturing Development Services ram has been providing both prenatal care and post birth continuous home visitation programs to isk first-time parents. As a result of increased funding, HANDS was expanded to include 2011. This is the first study, to our knowledge, that assesses the impact of home visiting programs a. Methods: A quasi-experimental study was used to calculate the possible different health ing multigravida HANDS participants who received at least one prenatal visit and multigravida who o the HANDS program, but did not receive a visit. Individuals eligible to be included who natal HANDS visit had significantly less risk of a pre-term birth compared to mothers who did not receive a ne visit (12.5% vs. 18.3%, respectively; p<0.001). Multigravida who received a prenatal ere less likely to give birth to a low birth weight infant compared to mothers who did not receive a ne visit (10.2% vs. 16.0%, respectively; p<0.001) and less likely to report inadequate prenatal care 8%, respectively; p<0.001). Conclusions: The HANDS program appears to be effective in improving thild health outcomes in multigravida. These findings highlight the need to encourage prenatal care to multigravida.	
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Poster Presentation 266 Abstract Title: Theta EEG Waves of Aging Professional Musicians as an Indicator of Working Memory and Cognitive Function Author(s): J. Carr, U of Kentucky A. Hoskins, U of Kentucky S. Hoffmann, U of Kentucky C. Schneider, Ph.D., U of Kentucky J. Watkins, Ph.D., U of Kentucky Y. Jiang, Ph.D., U of Kentucky Abstract: Context: A large population of aging US adults have cognitive impairment. Cognitive function is highly variable, but studies have identified multiple lifestyle factors that influence cognitive performance at old age. This study focuses on cognitive challenge using music as an outlet. Playing instruments has shown to activate cognitive functions, motor functions, and sensory systems simultaneously. Literature suggests a strong correlation between cognitive function and musical ability. In the past, the introduction of music to an aging person has been used as an intervention technique for cognitive decline and impairment. This study aims to measure music as a protective mechanism against cognitive impairment. Methods: This study surveys and examines 29 older adult professional orchestral musicians. Cognitive and neuropsychological profiles were taken of participants through neuropsychological testing and EEG recordings. Results: Musician's scores were compared with normative scores of like-aged non-musicians. Current musicians scored both significantly faster and more accurate on four of the five neuropsychological exams administered. Regression and ANCOVA analysis was done between theta EEG signatures in the frontal, parietal, and occipital lobes during the Bluegrass Working Memory Task. Two variables exhibited strong positive correlations: the number of years of private music lessons and the number of hours spent practicing music weekly.						
Abstract Title: and Cognitive Function Author(s): J. Carr, U of Kentucky A. Hoskins, U of Kentucky S. Hoffmann, U of Kentucky C. Schneider, Ph.D., U of Kentucky J. Watkins, Ph.D., U of Kentucky Y. Jiang, Ph.D., U of Kentucky Abstract: Context: A large population of aging US adults have cognitive impairment. Cognitive function is highly variable, but studies have identified multiple lifestyle factors that influence cognitive performance at old age. This study focuses on cognitive challenge using music as an outlet. Playing instruments has shown to activate cognitive functions, motor functions, and sensory systems simultaneously. Literature suggests a strong correlation between cognitive function and musical ability. In the past, the introduction of music to an aging person has been used as an intervention technique for cognitive decline and impairment. This study aims to measure music as a protective mechanism against cognitive impairment. Methods: This study surveys and examines 29 older adult professional orchestral musicians. Cognitive and neuropsychological profiles were taken of participants through neuropsychological testing and EEG recordings. Results: Musician's scores were compared with normative scores of like-aged non-musicians. Current musicians scored both significantly faster and more accurate on four of the five neuropsychological exams administered. Regression and ANCOVA analysis was done between theta EEG signatures in the frontal, parietal, and occipital lobes during the Bluegrass Working Memory Task. Two variables exhibited strong positive correlations: the number of years of private music lessons and the number of		Poster Presentation 266				
Author(s). Ph.D., U of Kentucky J. Watkins, Ph.D., U of Kentucky Y. Jiang, Ph.D., U of Kentucky Abstract: Context: A large population of aging US adults have cognitive impairment. Cognitive function is highly variable, but studies have identified multiple lifestyle factors that influence cognitive performance at old age. This study focuses on cognitive challenge using music as an outlet. Playing instruments has shown to activate cognitive functions, motor functions, and sensory systems simultaneously. Literature suggests a strong correlation between cognitive function and musical ability. In the past, the introduction of music to an aging person has been used as an intervention technique for cognitive decline and impairment. This study aims to measure music as a protective mechanism against cognitive impairment. Methods: This study surveys and examines 29 older adult professional orchestral musicians. Cognitive and neuropsychological profiles were taken of participants through neuropsychological testing and EEG recordings. Results: Musician's scores were compared with normative scores of like-aged non-musicians. Current musicians scored both significantly faster and more accurate on four of the five neuropsychological exams administered. Regression and ANCOVA analysis was done between theta EEG signatures in the frontal, parietal, and occipital lobes during the Bluegrass Working Memory Task. Two variables exhibited strong positive correlations: the number of years of private music lessons and the number of	A bestreet Titles					
variable, but studies have identified multiple lifestyle factors that influence cognitive performance at old age. This study focuses on cognitive challenge using music as an outlet. Playing instruments has shown to activate cognitive functions, motor functions, and sensory systems simultaneously. Literature suggests a strong correlation between cognitive function and musical ability. In the past, the introduction of music to an aging person has been used as an intervention technique for cognitive decline and impairment. This study aims to measure music as a protective mechanism against cognitive impairment. Methods: This study surveys and examines 29 older adult professional orchestral musicians. Cognitive and neuropsychological profiles were taken of participants through neuropsychological testing and EEG recordings. Results: Musician's scores were compared with normative scores of like-aged non-musicians. Current musicians scored both significantly faster and more accurate on four of the five neuropsychological exams administered. Regression and ANCOVA analysis was done between theta EEG signatures in the frontal, parietal, and occipital lobes during the Bluegrass Working Memory Task. Two variables exhibited strong positive correlations: the number of years of private music lessons and the number of						
noure enont practicing music wookly	variable, but stud study focuses or cognitive function between cognitiv used as an inter- protective mecha professional orch neuropsychologi scores of like-ag of the five neuro EEG signatures variables exhibit	dies have identified multiple lifestyle factors that influence cognitive performance at old age. This n cognitive challenge using music as an outlet. Playing instruments has shown to activate ns, motor functions, and sensory systems simultaneously. Literature suggests a strong correlation we function and musical ability. In the past, the introduction of music to an aging person has been vention technique for cognitive decline and impairment. This study aims to measure music as a anism against cognitive impairment. Methods: This study surveys and examines 29 older adult hestral musicians. Cognitive and neuropsychological profiles were taken of participants through ical testing and EEG recordings. Results: Musician's scores were compared with normative ged non-musicians. Current musicians scored both significantly faster and more accurate on four psychological exams administered. Regression and ANCOVA analysis was done between theta in the frontal, parietal, and occipital lobes during the Bluegrass Working Memory Task. Two red strong positive correlations: the number of years of private music lessons and the number of				

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Poster Presentation 267					
Abstract Title:	Feasibility, Acceptability, and Proof of Concept of a Parenting Intervention Adapted for				
Abstract The.	Delivery in Appalachia				
Author(s):	C. B. Cornell, Department of Health, Behavior & Society, University of Kentucky A. S. Merritt, MPH, Department of Health, Behavior & Society, University of Kentucky J. A. Jacobs, MPH, Department of Health, Behavior & Society, University of Kentucky F. J. Feltner, DNP, Center of Excellence in Rural Health C. R. Studts, PhD, Department of Health, Behavior & Society, University of Kentucky				
Abstract: Back	ground: Mental health professional shortages and stigma hinder parents from seeking services				
targeting child	behavior problems in rural Appalachia. The Family Check-Up (FCU) is an evidence-based				
parenting interv	vention that was adapted using the ADAPT-ITT model to be culturally acceptable and accessible to				
the target popu	lation. Methods: Five community-based paraprofessionals implemented the adapted FCU in				
Appalachian co	ounties. Data from parents who completed post-intervention assessments (n=10) were analyzed.				
	assessed using recruitment and retention data. Acceptability was measured with the European				
	tion Scale about Early Intervention (EPASSEI). Proof of concept was demonstrated using paired				
	(baseline to post-intervention) with three parent-report effectiveness outcome measures: the Child				
	klist (CBCL), Beck Depression Inventory (BDI), and Parenting Young Children Scale (PARYC).				
Results: Participants were non-Hispanic White mothers (80%) or grandmothers (20%) with a high school diploma (20%) as high an advantian (40%) . Must have held a particular advantage (20%) . The shiften ware					
(60%) or higher education (40%). Most households had an annual income < $30k$ (60%). The children were					
preschool-aged (M=4.23, SD=0.78) and mostly male (90%). EPASSEI scores suggested that parents were					
"extremely satisfied" with the FCU and its delivery. Proof of concept was demonstrated by a signal of effect in					
every effectiveness measure: BDI scores, CBCL subscale and total scores, and PARYC subscale scores were all					
improved at post-intervention assessment, with two subscales of the PARYC showing statistically significant					
	vement despite the small sample size. Conclusions: Results of this study will be leveraged to				
	e-scale hybrid effectiveness-implementation trial of FCU as a preventive intervention for families in				
underserved ru	Iral Appalachian communities.				
Our and a stand b	This project is supported by NIH/NIMH (R34 MH106661) and NIH/NCATS (through the UK				
Supported by:	Center for Clinical and Translational Science, UL1TR000117 and 8KL2TR000116). The content				
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	Poster Presentation 268				
Abstract Title:	Documenting the Operations of a Dental Wellness Clinic				
Author(s):	L. Dixon, University of Kentucky College of Public Health T. M. Woody, University of Kentucky College of Public Health S.B. Wackerbarth, Health Management & Policy, University of Kentucky College of Public Health				
	e UK College of Dentistry's Diagnostic, Wellness and Prevention Clinic offers patients to opportunity				
	n dental and medical exams at a single visit. Prompted by the immediacy of a dental concern, such				
	ttract patients who have not participated in either dental or medical primary care. As such the clinic				
	que gateway for a hard-to-reach population to receive preventive care and potentially re-engage				
	ncare system. The purpose of this research was to use process improvement tools to better				
	irrent workflow processes and identify potential areas for improvement. Data were collected using				
	igh method and observation. The walk-through focused on understanding the experiences of Juling screening appointments. The results of the walk-through depicted wide variation in the curren				
	formed the design of standardized protocols. During the observation phase members of our team				
shadowed dental students as they provided patient care. Data collected were analyzed using process workflow					
maps, spaghetti diagrams and the waste-walk method. These results as well as insights from the process owners					
were used to identify ideas to reduce waste and standardize processes. The next phases of the project involves					
	eline measures of throughput time and a prioritizing improvement ideas.				
Supported by:	None				
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	Poster Presentation 269
Abstract Title:	Home Visitation Impacts on Second-Time Mothers: Does Repeat Participation Make a Difference?
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Development S mothers. The p by HANDS in r varying levels administrative second pregna participation be not first pregna squared tests birthweight, an reduction in se participated in participated in participation=3 occurrence of s in both pregna	kground: Research has shown positive impacts of the Kentucky Health Access Nurturing Services (HANDS) program, a home visiting program for high-risk families, on primigravida program expanded to multigravida mothers in 2011; mothers then had the opportunity to be served multiple pregnancies. This study's objective was to evaluate differences in birth outcomes by of HANDS participation in first and second pregnancies. Methods: This study used HANDS and live birth certificate data to analyze approximately 10,000 women who had their first and ancies result in a live birth between 2013-2016. We evaluated four specific levels of HANDS etween the first and second pregnancy: 1) HANDS in both pregnancies; 2) HANDS in second but ancy; 3) HANDS in the first but not second pregnancy; 4) no HANDS in either pregnancy. Chi- were estimated in SAS to evaluate preliminary differences in birth outcomes (preterm birth, low ad small-for-gestational age) by HANDS participation. Results: Preliminary findings showed a econd preterm birth (15.5%) following a preterm birth in the first pregnancy for women who HANDS in both pregnancies. Women who participated in only one pregnancy (first pregnancy 81.9%, and second pregnancy participation=34.8%) or neither pregnancy (24.1%) had higher second preterm birth. Additional birth outcomes will be presented. Conclusion: HANDS participation ncies may offer some benefit, particularly for women who previously had an adverse birth outcome. clude reducing health disparities for high-risk populations.
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Poster Presentation 270					
	Comparison of O Settings	nline, Hybrid, and F	Face-to-Face Cou	rses in Public H	lealth and Healthcare
Allfnor(e)	· · ·	ge of Public Health, L addysman, Departme		, 0	e of Public Health, U of
Abstract: As non-traditional degree and certificate programs become more widespread, there is a need to develop methods to evaluate student engagement and learning in these courses and programs. This poster uses published literature to examine the current use and effectiveness of online, traditional in-class, and hybrid courses in higher education. The goal of this review was to determine in which course setting college students tend to learn the best and the impact on their grades. Additionally, we developed survey questions to evaluate student learning and course setting preference. Questions include previous experience with hybrid courses and perceived productivity. Though generated for an undergraduate biostatistics hybrid course at the University of Kentucky, our methods can be adapted to graduate-level courses or programs and clinical settings in a variety of public health areas.					
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	Poster Presentation 271
Abstract Title:	Documenting the Operations of a Travel Clinic
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country-specific travelers to and maintaining the improvement to Data were collec the experience variation in the members of our using process from the process	UK College of Public Health's Travel Clinic is a full-service clinic that provides all immunization and c advice, as well as post-travel screening and evaluation. The clinic provides a critical service to a new arrivals from all corners of the globe. As such, the clinic plays an important role in e health of individuals and populations. The purpose of this research was to use process bols to better understand current workflow processes and identify potential areas for improvement. acted using the walk-through method and observation. The walk-through focused on understanding s of patients scheduling screening appointments. The results of the walk-through depicted wide current process and informed the design of standardized protocols. During the observation phase r team shadowed dental students as they provided patient care. Data collected were analyzed workflow maps, spaghetti diagrams and the waste-walk method. These results as well as insights as owners were used to identify ideas to reduce waste and standardize processes. The next project involves collecting baseline measures of throughput time and a prioritizing improvement.
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Poster Presentation 272			
Abstract Title:	Association of multiple proteinopathies, cognitive decline, and dementia in a community- based autopsy cohort		
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are the hallman frequently accor- hypothesized to study aimed to neuropsycholo Methods Data of aging and da definitions wer n=138, tau+Aβ association be diagnosis, APC participants wer in 37% and 2 r neuropsycholo in cases with a implications for	kground: Åbnormal accumulation of amyloidβ (Aβ) plaques and neurofibrillary tangles in the brain rk of Alzheimer's disease (AD). However, it is important to recognize that AD pathology is ompanied by additional neurodegenerative pathologies, specifically TDP43 and α-synuclein. We hat the co-occurrence of four misfolded proteins is common but under recognized in old age. This determine the frequency of multiple proteinopathy among cases; evaluate demographic, gical, neuropathological characteristics; as well as evaluate cognitive trajectories over time. was analyzed from elderly, longitudinally evaluated participants in a community-based cohort study ementia who had undergone autopsy and satisfied criteria of having at least misfolded tau. Cases e based on the presence of the misfolded proteins: tau alone n=14, tau+TDP43, n=19, tau+Aβ, s+α-synuclein, n=59, tau+Aβ+TDP43, n=68, tau+Aβ+tdp43+α-synuclein, n=45. We examined the tween case groups and neuropsychological test scores, sex, age, years of education, clinical DEε4, chronic comorbidities, additional neuropathologies. Results A total of 343 autopsied ere included. All 4 misfolded proteins were detected in 13.11%, 3 misfolded proteins were detected insfolded proteins in 46%. The participants with more proteinopathies had the lowest gical scores at death. The lowest MMSE scores, consistent with severe dementia, were observed ill 4 proteins. Conclusion Multiple proteinopathy is common in aged brains. This has significant r public health, since strategies to prevent/cure AD may be complicated by the unrecognized <u>iditional neurodegenerative pathologies</u> . This project is supported by the ALZHEIMER'S DISEASE CENTERS (ADC) through the Grant: P30 AG028383.		
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	Poster Presentation 273				
	tation Science to Increase the Accessibility and Acceptability of nt Training in Appalachia				
	Merritt, MPH J. A. Jacobs, MPH F. J. Feltner, DNP C. R. Studts, PhD				
	tation science is beneficial to public health through its assessment of				
	to standard health measures, evidenced by the Consolidated Framework of				
	In rural Appalachia, we conducted a pilot implementation trial of an adapted				
	nt training (BPT) assessing these implementation outcomes and determinants.				
	paraprofessionals were trained to deliver the Family Check-Up BPT. These				
	titative measures assessing constructs under three CFIR domains.				
	d agency directors (n=6) completed similar quantitative measures.				
	were measured with the Organizational Readiness to Change Assessment and				
	ment Tool. Interventionist characteristics were measured using the Evidence- , Counselor Activity Self-Efficacy Scale, and Therapist Satisfaction Index.				
Intervention characteristics were measured using Perceived Characteristics of Intervention Scale. Implementation outcomes were operationalized and assessed according to Proctor's definitions, with a focus on feasibility,					
acceptability, and fidelity of intervention delivery. Findings: With regard to implementation outcomes, results					
regarding feasibility and acceptability of the Family Check-Up BPT delivery were promising. Fidelity of BPT					
	rize the distributions of determinants of implementation outcomes as defined in				
	be presented in detail, organized by the five counties in which the				
	tervention. Results should be interpreted with caution due to the small sample				
	vill inform the design of a large-scale hybrid effectiveness-implementation trial				
	and BPT effectiveness in rural Appalachian communities.				
	pported by NIH/NIMH (R34 MH106661) and NIH/NCATS (through the UK				
	I and Translational Science, UL1TR000117 and 8KL2TR000116). The content				
	onsibility of the authors and does not necessarily represent the				
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	Poster Presentation 274				
Abstract Title:	Hand hygiene	compliance among ane	sthesia provider	s in the operating room	
Author(s):		of Public Health Universit		Sekhon Office of Infection Preventior esia UK HealthCare	
healthcare wor literature relate purpose of this operating room five-week dura providers. The and at contact some standard of gloves (rang gloves versus l contact. Conclu	kers. Hand hygien observational stu observational stu observational stu observational stu observation. The observation hand hygiene sta with blood and/or s for hand hygien e 9-15) were utili opefore donning di usion: The observation ance among ane	ine is a primary method of the compliance for anesther udy was to assess hand h Colorectal surgeries were ations were in the same op andards observed included r other potentially infectiou he compliance in the opera zed. Frequent hand hygie isposable gloves. Frequer vations in the operating ro	decreasing healt sia providers in the ygiene compliance observed for the perating room for d: before putting of a materials or su ating room were r ne was observed at hand hygiene w om revealed inhe	ndards in place for hand hygiene for h care-associated infections. Previous e operating room was reviewed. The e among anesthesia providers in the entire duration of the operation over each surgery with different anesthesia on gloves and after removing gloves, faces. Results: This study found that not satisfactory. An average of 11 pairs more often after doffing disposable vas observed before and after patient rent challenges in improving hand y improve hand hygiene before and	
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Poster Presentation 275				
Abstract Title:	Representations of Aging among Eastern Kentucky University Undergraduates			
Author(s):	O. M. Pokoski, College of Public Health, U of Kentucky G. D. Rowles, Graduate Center for Gerontology, U of Kentucky			
perceptions of o undergraduate involved both d representations characteristics t physical feature revealed more a negative underf outlook on the a differences betw of media. Differ and ideas are c easily drawn ag	sm is stereotyping and discrimination on the basis of age and is commonly grounded in older adults. As part of a larger study, the perceptions of aging of 135 junior and senior occupational therapy students at a regional university were measured using a protocol that rawing and verbal description. One purpose of the study was to compare visual and written s. Findings with respect to the sketches produced indicated that students consider aging in terms of that can be easily drawn such as assistive devices (glasses, canes, walkers, and wheelchairs) and es (hair loss, wrinkles, and hunched stature). In contrast, findings with regard to the descriptions subtle dimensions of aging in a bifurcated fashion. While some written descriptions suggest a more tone indicated by a loss of independence and loneliness, other descriptions project a more positive aging process as expressed through discussion of retirement and happy marriages. Significant ween the two sets of findings portray students' abilities to represent aging between the two forms rences between the two modes of representation suggest that students' abilities to express beliefs closely linked to the medium of expression used. The visual medium of sketching tends to result in geist representations of aging while written descriptions tend to express more subtle internal and ated dimensions of the aging process.			

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Poster Presentation 276						
Abstract Title:	The Effects of T	rauma on Adverse Pregnancy Outcomes				
Author(s):		blic Health, U of Kentucky, Lexington, KY H. Bush, Department of Biostatistics, G. Glover, Department of Biology, U of Kentucky				
Abstract: Trauma and violence is an increasing public health concern that has long-term negative consequences						
on individual health, including but not limited to heart disease, cancer, gastrointestinal disorders, and chronic pain.						
American wom	American women are more likely to experience trauma and violence than men thus presenting an immediate					
threat to a wom	nan's health and we	ell-being. These outcomes include negatively impacting specific pregnancy				
outcomes both	when trauma occu	urs while pregnant as well as prior to pregnancy. This study seeks to identify the				
relationship be	relationship between types and timing of trauma and its impact on a variety of adverse pregnancy outcomes. This					
study uses long	study uses longitudinal data collected by the Kentucky Women's Health Registry (KWHR) between 2006 and					
2014. This registry assess past and current health status of women across Kentucky and identifies instances of						
child abuse and	child abuse and adult violence as well as any adverse pregnancy outcomes. Researchers analyzed these					
comparisons using odds ratios and logistic regression models to determine the prevalence rate ratios of adverse						
pregnancies as a result of multi-traumatic exposures in childhood and adulthood.						
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Poster Presentation 277			
	Enhancing Timeliness of Drug Overdose Mortality Surveillance: a Machine Learning		
Abstract Title:	Approach		
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	Research Center and Department of Epidemiology, U of Kentucky R. Kavuluru, Department of		
	Computer Science and Division of Biomedical Informatics, U of Kentucky		
Abstract: Background: Timely data is key to effective public health responses to epidemics. Drug overdose			
deaths are identified in surveillance systems through ICD-10 codes present on death certificates. ICD-10 coding			
takes time, but free-text information is available on death certificates prior to ICD-10 coding. The objective of this			
study was to de	evelop a machine learning method to classify free-text death certificates as drug overdoses to		
provide faster drug overdose mortality surveillance. Methods: Using 2017-2018 Kentucky death certificate data,			
free-text fields were tokenized and features were created from these tokens using natural language processing			
	NLP features were then used to train a machine learning classifier on 2017 data. The resulting		
	ed on 2018 Kentucky data and compared to a simple rule-based classification approach.		
Documented code for this method is available for reuse and extensions: https://github.com/pjward5656/dcnlp.			
	Results: The machine learning model achieved 0.96 positive predictive value (PPV) and 0.98 sensitivity for an F-		
score of 0.97 on testing data. The machine learning model achieved significantly higher performance for			
sensitivity (p<0.001) than the rule-based approach. This model can be deployed on death certificates as soon as			
the free-text is available, eliminating the time needed to code the death certificates. Conclusion: Machine learning			
using natural language processing is a relatively new approach in the context of surveillance of health conditions.			
This method can be employed to inform public health responses to the drug overdose epidemic in near-real time			
as opposed to	several weeks following events.		
0 1 11	This project was supported by Cooperative Agreement Numbers 5 NU17CE002732-04-00 and 6		
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