

Harvard Medical School Curriculum Vitae

Date Prepared: January 20, 2017

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Place of Birth: Seoul, South Korea

Education

1988	B.A.	Natural Sciences Area	Johns Hopkins University
1996	Ph.D.	Health Policy and Management (Advisors: Barbara Starfield, Anne Riley)	Johns Hopkins Bloomberg School of Public Health

Faculty Academic Appointments

1996, 1998	Adjunct Faculty	Department of Social and Behavioral Sciences	Boston University School of Public Health
1999-2011	Instructor	Pediatrics	Harvard Medical School
2011-	Assistant Professor	Pediatrics	Harvard Medical School

Appointments at Hospitals/Affiliated Institutions

1999-	Research Associate	Department of Medicine Division of Adolescent/Young Adult Medicine	Boston Children's Hospital
2011-	Research Associate	Department of Medicine Division of Developmental Medicine	Boston Children's Hospital

Other Professional Positions

1988-1991	Research Assistant	Laboratory for the Study of Human Eating Behavior	Johns Hopkins School of Medicine, Department of Psychiatry
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1991-1994	Research Analyst	“Child Health and Illness Profile - Adolescent Edition” development project	Johns Hopkins Bloomberg School of Public Health, Department of Health Policy and Management
1994-1998	Project Manager	Adolescent and School Health Research and Program Evaluation	Massachusetts Department of Public Health, Bureau of Family and Community Health, Office of Statistics and Evaluation
1996, 1998	Seminar Leader	Behavioral Sciences and Public Health Course	Boston University School of Public Health, Department of Social and Behavioral Sciences
1999-2006	Research Consultant	Office of Adolescent Health and Youth Development	Massachusetts Department of Public Health, Bureau of Family and Community Health, Bureau of Health Statistics, Research, and Evaluation

Major Administrative Leadership Positions

Local

2008-2010	Founding Director	Survey and Measurement Core, Clinical Research Program	Boston Children’s Hospital
2008-2013	Director of Research Methods	Center for Adolescent Substance Abuse Research	Boston Children’s Hospital
2013-	Co-Director	Center for Adolescent Substance Abuse Research	Boston Children’s Hospital

Committee Service

Local

2002-2005	Partnership to Promote Student Health		Boston Children’s Hospital/Fenway High School/Arts Academy Co-Founder
2002	Massachusetts Youth Alcohol Task Force		Boston Children’s Hospital/Mothers Against Drunk Driving/BU School of Public Health/Harvard School of Public Health/MDPH Bureau of Substance Abuse Services Member
2004-2005	Physician Communication Survey Working Group		Boston Children’s Hospital Member

2004-2006	Trainee Survey Working Group	Boston Children's Hospital Member
2004-	Scholarship Oversight Committees	Boston Children's Hospital Division of Adolescent/Young Adult Medicine
	Nefertiti Durant, MD MPH Adolescent Medicine Fellow 2004-2006	Member
	Joanna D. Brown, MD Adolescent Medicine Fellow 2006-2008	Member
	Jennifer Louis-Jacques, MD MPH Adolescent Medicine Fellow 2011-2013	Member
	Diana Lemly, MD Adolescent Medicine Fellow 2012-2014	Member
	Scott Hadland, MD MPH Adolescent Medicine Fellow 2013-2014	Member
2007	Ambulatory Survey Working Group	Boston Children's Hospital Member
2007-2012	Clinical Research Program	Boston Children's Hospital
	Survey Core Faculty Search Committee 2008, 2010	Co-Chair
	Biostatistician Faculty Search Committee 2007-2009	Member
	Survey Core Faculty Search Committee 2012	Member
	Steering Committee 2009-2011	Member
2007-2010	Patient Experience Committee	Boston Children's Hospital Program for Patient Safety and Quality
	Inpatient Experience Survey Working Group 2007-2008	Chair
2009-2011	Scientific Review Committee	Boston Children's Hospital Division of Developmental Medicine Member

2013-	Academy of Investigation	Boston Children's Hospital Boston Combined Residency Program Affiliated Investigator
2013-	ICISS/ TriVox System Evaluation Committee	Boston Children's Hospital Member
National		
2015-	Clinical Preventive Services Working Group	U.S. Health Resources and Services Administration, Maternal and Child Health Bureau, National Adolescent Health Research Network, Chair
2016	Comptroller General's Forum on Preventing the Use of Illicit Drugs and Abuse of Prescription Drugs	U.S. Government Accountability Office/ National Academy of Sciences, Invited Panel Member
International		
2015-	Scientific Advisory Committee	Consumer and User Psychology Unit University of Santiago de Compostela, Spain Member
Professional Societies		
1996-	Massachusetts Public Health Association	Member
1996-	American Public Health Association	Member
2001-2002	Society for Public Health Education	Member
2002-	Society for Adolescent Health and Medicine 2010-2011	Member Spirituality SIG, Co-chair
2004-2009	Society of Behavioral Medicine	Member
2009-	Association for Medical Education and Research in Substance Abuse 2012-2015	Member Member, Abstract Review Committee
	2014-2015	Co-chair, Abstract Review Committee
2011-	International Network on Brief Interventions for Alcohol & Other Drug Use 2013-2014	Member Member, Scientific Committee
Grant Review Activities		
2016	Maternal and Child Health Secondary Data Analysis Research (SDAR) Review Committee	U.S. DHHS, HRSA, Maternal and Child Health Bureau

Ad hoc Member

Editorial Activities

- Ad-hoc Reviewer
 - Addiction
 - American Journal of Public Health
 - Annals of Behavioral Medicine
 - Assessment
 - British Medical Journal
 - Drug and Alcohol Dependence
 - JAMA Psychiatry
 - Journal of Addiction Research & Therapy
 - Journal of Adolescent Health
 - Journal of School Health
 - Journal of Women’s Health
 - Harvard Student Research Journal
 - Neuropsychiatric Disease and Treatment
 - Pediatrics
 - Substance Abuse

• Other Editorial Roles

2017	Adolescents - Section Editor	Principles of Addiction Medicine textbook, 6 th Edition
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Honors and Prizes

2006	Young Professional Award	American Public Health Association, Maternal and Child Health Section	Research and public health service
2006	Best Abstract Award, Winner (Co-First author)	Association for Medical Education and Research in Substance Abuse	
2009, 2010	Best Abstract Awards: Winner and Semi-Finalist (First Author)	Association for Medical Education and Research in Substance Abuse	
2011	John C. Chappel Best Research Award (First Author)	Association for Medical Education and Research in Substance Abuse	
2012	T. Berry Brazelton Award for Innovation	Boston Children’s Hospital Division of Developmental Medicine	Innovative research
2015	Estherann Grace Teaching Award	Boston Children’s Hospital Division of Adolescent/Young Adult Medicine	Teaching

Report of Funded and Unfunded Projects

Funding Information

Past

- 1999-2002 The Evaluation of a New Alcohol Policy for Massachusetts State Colleges
Robert Wood Johnson Substance Abuse Policy Research Program
037858
Co-Investigator (PI: John R. Knight, Jr.)
The goal of this study was to follow changes in alcohol policy at MA colleges and determine how the changes affect student drinking and related problems at colleges with residential campuses. I guided the study design and implementation, design of the data collection instruments, data analysis and co-authored two articles, including one as first author.
- 1999-2002 Identifying Adolescent Alcohol Use in the Medical Office
National Institute on Alcohol Abuse and Alcoholism
R01 AA12165-01A1
Co-Investigator/Measurement Expert (PI: John R. Knight, Jr.)
The goal of this study was to further refine and validate the CRAFFT test, a brief screen for alcohol problems, among 14-18 year old adolescent medical patients. I guided the data analysis and co-authored the article.
- 1999-2004 Formative evaluation of the Massachusetts Youth Sexual Abstinence Media Campaign
Massachusetts Department of Public Health (MDPH)
Evaluation Consultant to the Office of Adolescent Health and Youth Development, Bureau of Family and Community Health, MDPH
The goals of this project were to use qualitative and quantitative research methods to aid in the development of effective media messages targeting youth and parents to promote teen sexual abstinence and parental involvement in the lives of teens. I oversaw the design of the protocol for evaluating the materials developed.
- 1999-2003 A comprehensive evaluation of the Massachusetts Challenge Fund Teen Pregnancy Prevention Initiative
Massachusetts Department of Public Health (MDPH)
Evaluation Consultant to the Office of Adolescent Health and Youth Development, Bureau of Family and Community Health, MDPH
The goals of this evaluation project were to document the process and outcomes of three representative MA Challenge Fund pregnancy prevention coalitions, and to develop evaluation tools and methodology that could be utilized by the MDPH and all 17 coalitions on an ongoing basis. I oversaw the development of the evaluation tools and methodology.
- 2000-2003 Spirituality and Alcohol Use in Adolescents
National Institute on Alcohol Abuse and Alcoholism, Fetzer Foundation
R21 AA13029
Co-Investigator (PI: John R. Knight, Jr.)
The goal of this project was to evaluate the psychometric properties of the Brief Multidimensional Measure of Religiousness/ Spirituality (BMMRS) among adolescent medical patients and to assess the relationship between BMMRS constructs and adolescents' use of alcohol and drugs. I led the data analysis and authorship of two publications, including as first author on one.
- 2001-2002 Impact of ancillary services on retention in health care in the HAPPENS Program
Aerosmith Endowment Fund

- PI (\$4000)
The goal of this study was to examine the effect of outreach, case management, and mental health support services on the likelihood of retention in care among HIV positive and at-risk youth. I created the data analysis plan, conducted the data analyses, and co-authored three articles, including as first author on one.
- 2001-2002 An Assessment in Pediatric Clinics of Preferred Interventions for Parental Alcohol Use
Boston Children's Hospital Minority Fellowship
Research Mentor (PI: Celeste Wilson)
The purpose of this study was to assess parents' reactions to being asked questions about their alcohol use and determine their preferences for how their child's clinician should respond. I helped to design the data collection measures, led the data analysis, and co-authored an article.
- 2001-2004 The Relationship Between the Internet and Illicit Drug Use
National Institute on Drug Abuse
K23 DA01010
Co-Investigator/Measurement expert (PI: Edward Boyer)
The goals of this study were 1) to determine the proportion of persons using the Internet to obtain information about the use of club drugs and other drugs; 2) to assess the association of knowledge, attitudes, and behavior toward drugs with ways in which the Internet is used; and 3) to determine the characteristics of person whose self-reported drug-using behavior has been altered by information obtained from the Internet. I guided the design of the study protocol, and developed the data collection measures.
- 2002-2006 Implementation of Medical Office Screening for Adolescent Substance Abuse
Robert Wood Johnson Foundation
045222
Co-Investigator/Measurement Expert (PI: John R. Knight, Jr.)
The goal of this project was to determine how screening is best implemented in different clinical settings and how pediatric clinicians can best respond to those who screen positive. I guided the development of research questions, data analysis and co-authored three articles.
- 2003-2004 Pediatric Hospital Based Sentinel Surveillance Network for Vaccine Preventable Diseases
DHHS/Centers for Disease Control and Prevention
200-2003-01601
Co-Investigator/Survey Expert (PI: Kenneth Mandl)
The goal of this project was to determine the feasibility of conducting surveillance for vaccine preventable diseases. I guided the design of the data collection measures, development of the data analysis plan, and co-authored an article.
- 2003-2004 A National Survey of Physicians' Adolescent Drug Testing Practices
Robert Wood Johnson Foundation, Substance Abuse Policy Research Program
86683
Co-Investigator/Measurement Expert/Mentor (PI: Sharon A. Levy)
The major goals of this project were to determine drug testing practices used by physicians, to compare these with existing policy guidelines, to compare practices used by physicians in different specialties, and to inform policy makers of the results. I guided the design of the data collection measures, study implementation, data analysis, and co-authored two articles.
- 2003-2004 A needs assessment of health risk behaviors and protective factors among students attending two high schools.
Aerosmith Endowment Fund(\$22,911)

PI

This study was conducted as part of an ongoing collaboration between Boston Children's Hospital adolescent health clinicians/researchers and two nearby high schools to identify, and develop strategies to address student health needs. This first collaborative project was an anonymous needs assessment survey of all students in both schools. I led this community-based participatory research project and oversaw all aspects of its design and implementation.

- 2003-2005 Sedation Management in Pediatric Patients Supported on Mechanical Ventilation
National Institute of Child Health and Human Development
R21 HD045020-01
Co-Investigator/Measurement Expert (PI: Martha A. Q. Curley)
The primary goal of this study was to develop and implement a sedation management protocol for pediatric patients supported on mechanical ventilation in pediatric intensive care units, and to assess its impact on care outcomes such as days on mechanical ventilation, hospital length of stay, and cost of care. I guided development of data collection measures, psychometric evaluation of their performance, and co-authored an article.
- 2004-2009 Academic Career Award in Adolescent Alcohol Abuse
National Institute of Alcohol Abuse and Alcoholism
K07 AA013280
Co-Investigator/Measurement Expert (PI: John R. Knight, Jr.)
This grant was a career development award to John Knight MD to enhance his skills as a clinical research investigator in the area of adolescent substance use screening, treatment, and prevention. I provided mentoring in the development of Dr. Knight's research methodology skills in epidemiology, measurement, and biostatistics.
- 2005-2007 Development of a Program Information Management System for MDPH Teen Pregnancy Prevention Programs
Massachusetts Department of Public Health
Consultant
The goal of this project was to develop the forms and computerized information management system to be used by all MDPH-funded teen pregnancy prevention programs to track and document their program activities and services. I led the design of the data collection forms and the information management system.
- 2006-2007 Substance Use and HIV Risk Reduction through Science-Based Drug Abuse Education: A High School Pilot Study
Aerosmith Endowment Fund (\$23,110)
PI
This project involved a collaboration between BCH and science teachers at two high schools to evaluate how receipt of a science curriculum entitled "The Brain: Understanding Neurobiology Through the Study of Addiction," developed by NIH's Office of Science Education (OSE) and the National Institute of Drug Abuse (NIDA), affects high school students' substance use knowledge, attitudes, perceived risk of harm, and behavior. I designed and oversaw all aspects of the project.
- 2008 Sedation Management in Pediatric Patients Supported on Mechanical Ventilation
Gustavus & Louise Pfeiffer Research Foundation
Co-Investigator/Measurement Expert (PI: Martha A. Q. Curley)
This was the pilot study of the Nurse-Implemented Goal-Directed Sedation Protocol; an intervention to change sedation management in pediatric patients supported on mechanical ventilation for acute respiratory failure in the pediatric intensive care unit (PICU). I guided the design and psychometric evaluation of a new clinical measure, the

- State Behavior Scale, developed for use in this protocol, and co-authored an article.
- 2008 Sedation Management in Pediatric Patients with Acute Respiratory Failure
National Heart, Lung, Blood Institute
R01 HL086622-01A1 and R01 HL086649-01A1
Co-Investigator/Measurement Expert (PI: Martha A. Q. Curley)
The primary goal of this study is to conduct a larger, more definite study of the effects of a sedation management protocol for pediatric patients supported on mechanical ventilation in pediatric intensive care units, and to assess its impact on care outcomes such as days on mechanical ventilation, hospital length of stay, and cost of care. I guided the design of the study protocol to further test the psychometric performance of the State Behavior Scale.
- 2004-2010 Screening and Brief Advice to Reduce Teen Substance Abuse
National Institute on Drug Abuse
R01 DA018848
Co-Investigator (PI: John R. Knight, Jr.)
The overall goal of this project was to augment a clinician substance use screening/brief advice intervention with psychoeducation and feedback, and then to assess the efficacy of this approach within a network of primary care practices. I co-wrote the grant application, designed the study assessment battery, guided study implementation, and led data analysis and co-authored two articles (first author on one).
- 2004-2010 A Medical Office Intervention for Adolescent Drug Use
National Institute of Drug Abuse
1 R01 DA 014553
Co-investigator/Measurement Expert (PI: John R. Knight, Jr.)
The goal of this study was to assess the efficacy of a new motivational interviewing intervention for substance abuse among adolescents. I designed the study assessment battery, guided study implementation, and led the data analysis and authorship of an article.
- 2009-2012 Dental and medical office iMET to reduce teen substance use
NIH Challenge Grant, National Institute of Dental and Craniofacial Research
RC1DE020699
Co-Investigator (PI: John R. Knight, Jr.)
The goal of this project was to develop and pilot an Internet/Intranet-based Motivational Enhancement Therapy (iMET) program for adolescents that targets tobacco, alcohol, and drug use. I designed the study assessment battery, and guided study design and implementation.
- 2008-2013 Training residents in adolescent SBIRT
Substance Abuse and Mental Health Services Administration/Center for Substance Abuse Treatment
5U79TI020267
Co-Investigator/Evaluator (PI: Sharon A. Levy)
The goal of this study was to develop, implement, evaluate and disseminate a training curriculum to teach medical residents skills in screening, brief intervention and referral to treatment for adolescent substance use. I oversaw the evaluation of the training curriculum, including the development of the evaluation tools and protocols, and co-first-authored an article.
- 2012-2013 Validation of a quick screen and brief assessment for adolescent substance abuse
National Institute of Drug Abuse
3R01DA025068-05S1
Site PI (\$40,167) (PI: Richard Saitz)

This study tests the criterion validity of a brief screening and assessment protocol to detect any past-12-month tobacco, alcohol and other drug use, frequency of use, and problem severity among adolescents in primary care. I wrote the grant proposal, oversaw the design and implementation of the study, analyzed the data, and first-authored a manuscript.

- 2014-2016 Adolescent Screening and Brief Intervention for Cannabis Use Protocol Development
National Institute on Drug Abuse, Center for the Clinical Trials Network
3U10DA013720-15S1
Co-Investigator (Lead Investigators: John R. Knight, Jr., Sharon A. Levy, Robert Schwartz, Li-Tzy Wu)
The objective of this project is to develop and implement a national randomized controlled trial of computer-facilitated screening and clinician brief advice in primary care to prevent cannabis use among adolescents. I was a member of the Study Steering Committee and led the design of the study protocol, the assessment battery, and all intervention-related materials.
- Current**
- 2012-2017 Integrated Clinical Information Sharing System (ICISS): Improving Care for Children with Chronic Conditions
Provider-Payor Quality Initiative, Boston Children's Hospital
Co-Investigator/Measurement Expert (Co-PIs: Eugenia Chan, Eric Fleegler)
The goal of this project is to generalize a prototype web-based clinical information system (eDMC) to five additional clinics (Adolescent Medicine, Children's Hospital Primary Care Center, Developmental Medicine, Neurology, and Psychiatry) so as improve quality of care and outcomes for patients with a variety of chronic conditions, including ADHD, asthma, autism, depression, and epilepsy, while reducing unnecessary healthcare utilization and overall costs of care. I overseeing the evaluation of system effects on patients, families, clinicians and the hospital.
- 2012-2017 Predictive Validity of the Patient Health Questionnaire-2 Screen for Depression among Young Mothers.
Edgerly Family Young Parents Program and Advocating Success for Kids Endowment
Co-Investigator/Measurement Expert (PI: Joanne Cox)
This study evaluates the 2-item PHQ as a tool for predicting medical and social service utilization among young mothers and their children receiving care in the BCH Young Parents Program. I guide and conduct the data analysis, and will co-author a manuscript.
- 2013-2017 The Reliability and Validity of the Vanderbilt ADHD Screen among Adolescents and Young Adults.
Boston Children's Hospital Department of Medicine Quality Improvement Grant
Co-PI/Measurement Expert (\$20,000) (Co-PIs: Joshua Borus, Sion Kim Harris)
This study evaluates the reliability and validity of the Vanderbilt ADHD screen, originally developed for children under age 12, among adolescents and young adults. A new self-report version for adolescents was developed and is examined for test-retest reliability, and convergent and predictive validity. I led instrument development, study design, data analysis, and will co-author manuscripts.
- 2013-2017 Computerized alcohol screening for children and adolescents in primary care.
National Institute on Alcohol Abuse and Alcoholism
1R01AA021904
Co-PI (\$1,414,006) (Co-PIs: Sion Kim Harris, John R. Knight, Jr.)
The goal of this project is to develop a computerized screening program for primary care offices that is based on NIAAA's Alcohol Screening Guide for Children and Adolescents and assess its psychometric properties among nine- to 18-yr-old primary care patients. I

co-wrote the grant application, and I oversee all aspects of project implementation as the Contact PI.

- 2014-2017 Computer adaptation of screening, brief MET intervention to reduce teen drinking
National Institute of Alcohol Abuse and Alcoholism
1R34AA023026
Co-PI (\$393,750) (Co-PIs: Sion Kim Harris, John R. Knight, Jr.)
The goal of this project is to conduct a Behavioral and Integrative Treatment Development Program Stage 1 pilot study evaluating feasibility, acceptability, and estimating the effect size of a new computerized Motivational Enhancement Therapy (cMET) intervention for alcohol-involved adolescent primary care patients. I am the Contact PI and oversee all aspects of project implementation.
- 2014-2019 Consequences of Adolescent Alcohol Use on Brain Development.
National Institute on Alcohol Abuse and Alcoholism
1R01AA022493
Site PI (\$348,126) (PI: Marisa Silveri)
The goal of this project led by Dr. Silveri at the McLean Imaging Center is to ascertain the effects of alcohol use initiation during early adolescence on brain structure/connectivity and cognition using multiple magnetic resonance-based imaging approaches (MRI, fMRI, DTI, MRS) and neuropsychological assessments in a longitudinal design. I guided the design of the study data collection protocol, and am overseeing participant recruitment for the study.
- 2014-2017 A Self-Adaptive Personalized Behavior Change System for Adolescent Preventive Healthcare
National Science Foundation
IIS-1344670
Consultant (PI: Elizabeth A. Ozer)
The objective of this project is to design, implement, and investigate INSPIRE, a computerized self-adaptive personalized behavior change system, informed by a social-cognitive theory of behavior change, for prevention of adolescent alcohol use. I have been an integral part of the design of the INSPIRE system (e.g., conceptualization of goals, selection and development of program components).
- 2015-2017 Adolescent Health Research Network
Health Resources and Services Administration, Maternal and Child Health Bureau
UA6MC27378
Chair, Clinical Preventive Services Working Group (PI: Elizabeth A. Ozer)
The goal of this project is to develop and maintain a transdisciplinary national multi-site research network that will accelerate the translation of developmental science into adolescent and young adult clinical practice, promote scientific collaboration, and develop additional research capacity in the field. I led the formation of the working group and first-authored a review article on the evidence base for clinical preventive services for adolescents and young adults, and recommendations for future research.

Projects Submitted for Funding

- Pending Primary care computer-facilitated SBIRT to prevent adolescent suicide
NIMH 1R34MH113758-01
Co-PI (\$840,750) (Co-PIs: Sion Kim Harris, Kimberly H.M. O'Brien)
This project aims to develop and pilot-test a new computer-facilitated Screening, Brief Intervention and Referral to Treatment-Safety (cSBIRT-S) system that addresses the continuum of adolescent substance use and suicide risk in primary care with co-located

medical and behavioral health services.

- Pending Primary care computer-facilitated SBIRT to prevent adolescent suicide
American Foundation for Suicide Prevention
Co-I (\$99,701) (PI: Kimberly H.M. O'Brien)
This project aims to develop a new computer-facilitated Screening, Brief Intervention and Referral to Treatment-Safety (cSBIRT-S) system that addresses the continuum of adolescent substance use and suicide risk in primary care with co-located medical and behavioral health services.
- Pending Sensitive periods, brain development, and depression
NIMH 2R01MH091391-06
Site PI (\$323,521) (Co-PIs: Martin Teicher, Marisa Silveri)
This longitudinal study of children and adolescents will help to elucidate the neurobiological mechanisms responsible for the development of depression, with particular emphasis on the etiological role of exposure to childhood maltreatment during sensitive periods of brain development.

Unfunded

- 2013- "Medical" marijuana use among adolescents presenting for substance abuse treatment.
Co-PI (Co-PIs: Sion Kim Harris, Sharon A. Levy)
This study explores how medical marijuana (MM) legalization affects marijuana usage patterns and perceptions among marijuana-using adolescents presenting to the BCH Adolescent Substance Abuse Program and Adolescent/Young Adult Medicine Clinic.
- 2014- Modeling of Alcohol Abuse in Adolescents: Predicting Variables, Comorbidity, risk profiles, and validation of a prevention program.
National Plan on Drugs of Spain
Consultant (PI: Antonio Boubeta-Rial)
The overall objective of this project led by the University of Santiago de Compostela, Santiago, Spain is to contribute to the prevention of alcohol abuse in adolescents in the Galician region of Spain, through the development of adequate screening tools, and the development and validation of powerful explanatory models, which will serve as the basis for the development of effective programs. I provide consultation on evidence-based adolescent substance use prevention and intervention strategies, and on validation study design and implementation for the Spanish CRAFFT.

Report of Local Teaching and Training

Teaching of Students in Courses

2005	Designing Surveys and Questionnaires Fellows, Faculty, Research Coordinators	Boston Children's Hospital 2 hrs/year
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Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)

2005	Being Survey Savvy: Avoiding Common Errors in Survey Design Health Services Research Fellows	Harvard Pediatric Health Services Research Fellowship 1.5-hr seminar
2006	Development of the State Behavioral Scale Intensive Care Fellows	Boston Children's Hospital Research Seminar 0.75 hours

2005-2009	Writing for Scientific Publication Research Fellows	Boston Children's Hospital Office of Fellowship Training Seminar 1 hour/year
2008	Being Survey Savvy: Design Tips for More Effective Surveys Research Fellows	Boston Children's Hospital Department of Cardiology Introduction to Clinical Research Seminar 1 hour
2010	Screening, Brief Intervention and Referral to Treatment for Adolescent Substance Abuse: Findings from the US and Czech Republic General Pediatrics Residents	Boston Children's Hospital General Pediatrics Residents' Rounds 1 hour
2013-2016	Substance Abuse Case Leadership Education in Adolescent Health (LEAH) Fellows	Boston Children's Hospital Division of Adolescent/Young Adult Medicine 12 hours/year
2014-2015	HIV/AIDS Case LEAH Fellows	Boston Children's Hospital Division of Adolescent/Young Adult Medicine 10 hours/year

Formally Mentored Harvard Medical, Dental and Graduate Students

2013	LeAnn Noh, Harvard School of Public Health Class of 2014 Summer Internship in Maternal and Child Health Project title : A QI Evaluation Proposal for the Boston Children's Hospital Eating Disorders Program. Project outcome: A study proposal delivered to BCH Eating Disorders Program staff
2014-2015	Louise Xu, Harvard Medical School Class of 2017 Project title: Summer project in Thailand on youth ART adherence Project outcome: Currently conducting data analysis for a manuscript
2016-	Amy Flynn, Harvard T.H. Chan School of Public Health Class of 2017 Project title : The role of perceived risk of harm in the effects of a computer-facilitated primary care brief screening and provider advice system on adolescent substance use Project outcome : Currently conducting data analysis for Masters thesis

Other Mentored Trainees and Faculty

2001-2002	Traci Brooks, MD/ Instructor in Pediatrics, Harvard Medical School; Director of Adolescent Services, Cambridge Health Alliance; Medical Director, Teen Health Centers/ Cambridge Health Alliance; Associate Investigator, Center for Adolescent Substance Abuse Research, Boston Children's Hospital <i>Career stage:</i> fellow. <i>Mentoring role:</i> research advisor. <i>Accomplishments:</i> First-authored article in Journal of Adolescent Health; co-authored articles in Pediatrics and Substance Abuse
2002-2004	Celeste R. Wilson, MD/ Assistant Professor of Pediatrics, Harvard Medical School; Associate Medical Director, Child Protection Team; Associate Investigator, Center for

- Adolescent Substance Abuse Research/ Boston Children's Hospital
Career stage: Instructor. *Mentoring role:* research advisor. *Accomplishments:* First-authored two articles in Pediatrics.
- 2002-2004 Sharon J. Levy, MD MPH/ Associate Professor of Pediatrics, Harvard Medical School; Director, Adolescent Substance Abuse Program/ Boston Children's Hospital
Career stage: Instructor. *Mentoring role:* research advisor. *Accomplishments:* First-authored 3 articles (Archives of Pediatrics and Adolescent Medicine, Alcoholism: Experimental and Clinical Research, Journal of Adolescent Health), obtained NIH K23 award.
- 2002-2003 Todd Callahan, MD MPH/ Associate Professor of Pediatrics; Program Director, Eating Disorders Program/ Vanderbilt University of Medicine
Career stage: fellow. *Mentoring role:* research advisor. *Accomplishments:* Published first-authored article in Journal of Adolescent Health.
- 2003-2004 Marisa Brett-Fleegler, MD/ Assistant Professor of Pediatrics, Harvard Medical School; Assistant in Emergency Medicine and Medicine/ Boston Children's Hospital
Career stage: fellow. *Mentoring role:* research advisor. *Accomplishments:* First-authored article in Pediatrics.
- 2004-2006 Jean A. Connor, PhD RN CPNP/ Instructor in Pediatrics, Harvard Medical School; Director of Nursing Research, Cardiovascular and Critical Care Services; Director of Pediatric Nursing Science Fellowship program/ Boston Children's Hospital
Career stage: fellow. *Mentoring role:* research advisor. *Accomplishments:* First-authored article in Journal of Pediatric Health Care.
- 2004-2008 Nefertiti Durant, MD MPH/ Associate Professor of Pediatrics, Department of Pediatrics, Division of Pediatrics and Adolescent Medicine/ University of Alabama at Birmingham
Career stage: fellow. *Mentoring role:* Scholarship Oversight Committee member, research advisor. *Accomplishments:* First-authored articles in Pediatric Exercise Science and Journal of School Health.
- 2006-2008 Joanna D. Brown, MD/ Clinical Assistant Professor Family Medicine/ Brown University School of Medicine
Career stage: fellow. *Mentoring role:* Scholarship Oversight Committee member, research advisor. *Accomplishments:* First-authored article in Maternal and Child Health Journal.
- 2007-2009 Neal Rojas, MD MPH/ Assistant Clinical Professor of Pediatrics/ University of California, San Francisco School of Medicine
Career stage: fellow. *Mentoring role:* research advisor. *Role:* *Accomplishments:* First-authored article in Journal of Adolescent Health
- 2008-2009 Areej Hassan, MD MPH/ Assistant Professor of Pediatrics/ Harvard Medical School; Assistant in Medicine; Director of Clinician Training, Center for Adolescent Substance Abuse Research/ Boston Children's Hospital
Career stage: fellow. *Mentoring role:* research advisor. *Accomplishments:* First-authored article in Pediatrics.
- 2009 Jean Solodiuk, RN MSN CPNP/ Research Associate in Anesthesia/ Boston Children's Hospital
Career stage: Early investigator *Mentoring role:* research and instrument development mentor. *Accomplishments:* Helped with formulating data analysis plan and implementation, and manuscript writing. *Accomplishments:* First-authored article in Pain.
- 2009 Jenna Riis, PhD MHS/ Early Childhood Mental Health Specialist, New York City Department of Health and Mental Hygiene

- Career stage:* Masters in Health Sciences student. *Mentoring role:* Summer internship supervisor. *Accomplishments:* Helped to prepare NIH grant submission; admitted into PhD program in Population, Family and Reproductive Health, Johns Hopkins Bloomberg School of Public Health (completed 2015)
- 2008-2011 Sonja I. Ziniel, PhD MA/ Assistant Research Professor/ University of Colorado; Senior Survey Methodologist/ Children's Hospital Colorado
Career stage: Instructor in Pediatrics, Harvard Medical School (first position after PhD completion). *Mentoring role:* supervisor. *Accomplishments:* First-authored article in International Journal of Quality in Health Care.
- 2010-2011 Amanda Pratt, MD BS BA/ Resident PGY3, University of North Carolina, School of Medicine, Dept. of Pediatrics.
Career stage: Georgetown Medical School student. *Mentoring role:* American Pediatric Society/Society for Pediatric Research Student Research Program internship supervisor. *Accomplishments:* Research abstract presented at 2011 Pediatric Academic Societies Annual Meeting, Denver CO.
- 2011-2013 Jennifer Louis-Jacques, MD MPH/ Assistant Professor of Clinical Pediatrics/ Children's Hospital of Philadelphia, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA
Career stage: fellow. *Mentoring role:* research advisor. *Accomplishments:* First-authored article in Journal of Adolescent Health; co-authored review paper in Adolescent Medicine: State of the Art Reviews.
- 2012-2014 Diana Lemly, MD MPH/ Instructor in Pediatrics, Harvard Medical School/ Staff Physician, MassGeneral Hospital for Children.
Career stage: fellow. *Mentoring role:* research advisor. *Accomplishments:* First-authored article in Pediatrics.
- 2013-2016 Julie Johnson, PhD/ Postdoctoral Fellow, Johns Hopkins Bloomberg School of Public Health.
Career stage: PhD student. *Mentoring role:* Dissertation Review Committee member
Accomplishments: Awarded National Institute on Drug Abuse Pre-doctoral Fellowship, completed PhD, first-authored article in Drug and Alcohol Dependence.
- 2013-2015 Scott Hadland, MD MPH MS/ Assistant Professor of Pediatrics/ Boston University School of Medicine; Lecturer/ Harvard Medical School
Career stage: fellow. *Mentoring role:* research advisor. *Accomplishments :* First-authored articles in Journal of Developmental Behavioral Pediatrics and Current Opinions in Pediatrics.
- 2014-2016 Patricia Gomez Salgado, PhD MS/ Research Fellow/ University of Santiago de Compostela, Santiago, Spain
Career stage: PhD student. *Mentoring role:* supervisor, visiting pre-doctoral student internship ; dissertation committee member. *Accomplishments:* Awarded pre-doctoral fellowship by National Plan on Drugs, Spain, completed PhD, first-authored manuscript in Behavioral Psychology.
- 2014-2016 Lilia Freire Rodriguez DeSouza Li, MD/ Director of Adolescent Medicine/ State University of Campinas, School of Medical Sciences, Campinas, Brazil
Career stage: Visiting Research Fellow. *Mentoring role:* research advisor.
Accomplishments : First-authored article in Current Opinions in Pediatrics; presented abstracts at Association for Medical Education and Research in Substance Abuse Annual Meeting and International Network on Brief Interventions for Alcohol and Drugs (2015).
- 2014-2016 Kateryna Kuzubova, PhD/ Assistant Professor of Counseling/ University of

Massachusetts, Boston/ Research Coordinator/ Boston Children's Hospital
Career stage: PhD student. *Mentoring role:* research advisor, dissertation mentor.
Accomplishments: Completed PhD, presented abstracts at Association for Medical Education and Research in Substance Abuse Annual Meeting and International Network on Brief Interventions for Alcohol and Drugs (2015).

Formal Teaching of Peers

No presentations below were sponsored by outside entities.

2016	Clearing Away the Smoke: Talking with Teens About Marijuana Holy Family Hospital Continuing Medical Education Program, Pedi Summit Boston Children's Hospital-sponsored CME	Single presentation Methuen, MA
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Local Invited Presentations

No presentations below were sponsored by outside entities.

2003	Designing Surveys and Questionnaires Boston Children's Hospital Office of Faculty Development	
2005	The Means to the End, Assessment in Clinical Research Boston Children's Hospital Nursing Research Conference	
2005	Writing for Scientific Publication Boston Children's Hospital Division of General Pediatrics Biennial Retreat	
2005-2010	Writing for Scientific Publication Boston Children's Hospital Office of Faculty Development	
2006	Design and Evaluation of Surveys Boston Children's Hospital Clinical Research Methods for Nurse Leaders	
2008	Being Survey Savvy: Design and Implementation Tips for More Effective Surveys Boston Children's Hospital Clinical Research Program	
2008	Web Survey Design and Implementation Boston Children's Hospital Clinical Research Program	
2008	Adolescent Substance Abuse and Violence Prevention Programs: Current Highlights and Emerging Trends Harvard Law School	
2008-2009	Writing for Scientific Publication Boston Children's Hospital, Office of Fellowship Training	
2008	The Use of Surveys in Medical Education Boston Children's Hospital Academy Retreat	
2009	Adolescent Substance Use and Violence Prevention Programs: Current Highlights and Emerging Trends Maternal and Child Health Seminar Series Harvard School of Public Health	
2010	The Teen Brain and Alcohol/Marijuana Boston Children's Hospital Substance Abuse Seminar	

- 2010 This is your Brain on Drugs: 2010
Boston Children's Hospital Substance Abuse Seminar
- 2011 Adolescent Substance Abuse Program at Boston Children's Hospital : Clinical and Research Overview
Massachusetts General Hospital Center for Addiction Medicine Grand Rounds
- 2012 Policy "Lunch and Learn": MA Ballot Question 3 on Medical Marijuana
Boston Children's Hospital Office of Governmental Relations
- 2012 Neurobiology of Drugs and Alcohol
Adolescent Screening, Brief Intervention, and Referral to Treatment Conference,
Boston Children's Hospital
- 2013 Effects of a Brief Motivational Intervention on Adolescent Substance Abuse Treatment Engagement and Outcomes
Boston Children's Hospital Division of Adolescent/Young Adult Medicine Faculty/Fellows Research Conference
- 2013-2015 The Teen Brain and Drugs
Boston Children's Hospital Division of Adolescent/Young Adult Medicine
LEAH Fellows Training Course: Substance Abuse Case
- 2014, 2015 "Dazed and Confused" Marijuana Policy and Impact on Youth: Current Knowledge
LEAH Fellows Training Course: Substance Abuse Case
- 2014, 2015 Advances in Adolescent HIV Prevention and Care: The Role of Research Networks
LEAH Fellows Training Course: HIV Case

Report of Regional, National and International Invited Teaching and Presentations

Those presentations below sponsored by outside entities are so noted and the sponsor is identified.

Regional

- 2002 Update on Abstinence Grant performance measures.
Massachusetts Department of Public Health, Abstinence Advisory Committee Meeting
Boston, MA
- 2002 An evaluation of a new alcohol policy for Massachusetts state colleges and universities.
Massachusetts Statewide University and College Coalition on Underage and Problem
Drinking, Boston, MA.
- 2003 An evaluation of a new alcohol policy for Massachusetts state colleges and universities.
University of Massachusetts at Dartmouth. Dartmouth, MA
- 2006 Being Survey Savvy: Design and Implementation Tips for More Effective Surveys
Massachusetts Health Sciences Library Network/ North Atlantic Health Sciences
Librarians, Inc., Framingham, MA.
- 2007 Being Survey Savvy: Design and Implementation Tips for More Effective Surveys
Dartmouth Biomedical Libraries
Annual October Conference for New England Academic Librarians. Hanover, NH.
- 2011 TeenSafe: A Web-based Substance Abuse Prevention Tool for Parents of Teens
Massachusetts Secondary School Administrators' Association, Inc. 2011 Summer
Institute. Falmouth, MA.
- 2012 Motivational Enhancement Therapy to Reduce Adolescent Substance Use
Maine Managed Care, Behavioral HealthCare Program
- 2012 Adolescent Substance Use: New Strategies for Early Identification and Intervention

- Massachusetts Society of Addiction Medicine, Waltham, MA.
- 2013 Adolescent Substance Use: New Strategies for Early Identification and Intervention
Massachusetts Department of Mental Health Professional Advisory Committee on
Children's Mental Health and Substance Use, Boston, MA
- 2014 The Teen Brain on Marijuana: The Neuroscience of "What were you thinking?"
American Trauma Society, Pennsylvania Chapter, Annual Meeting
- 2014 The Teen Brain: Why Is It More Susceptible to Addiction?
Opioid Overdose Prevention and Naloxone Training
Southeast Region School Nurse Leaders, Brockton, MA
- 2015 This is Your (Developing) Brain on Drugs, 2015
Bergen County Prevention Coalition Annual Alcohol, Tobacco, Drugs Prevention
Conference, Mahwah, NJ
- 2016 Clearing Away the Smoke: Talking with Teens about Marijuana Use
Golisano Children's Hospital of Southwest Florida Pediatric Conference
Sanibel, Florida
- 2016 Clearing Away the Smoke: Talking with Teens about Today's Marijuana
Eastern Maine Pediatric Conference
Bangor, Maine
- 2016 Clearing Away the Smoke: Talking with Teens about Today's Marijuana
Sex, Drugs and the Law
New England Regional Chapter of the Society for Adolescent Health and Medicine Fall
Meeting
Bedford, New Hampshire
- 2017 Clearing Away the Smoke: Talking with Teens about Today's Marijuana
Strengths-Based Interviewing of Adolescents
Massachusetts Department of Public Health School-Based Health Center Providers
Waltham, Massachusetts

National

- 1998 An approach to using and collecting school health data: the Model School Health
Information System Initiative.
Maternal and Child Health Bureau Dataspeak National Teleconference.
- 1998 Enhancing program monitoring and evaluation through the use of technology: the
Massachusetts Teen Challenge Fund experience.
American Public Health Association Annual Meeting
Washington, D.C. (selected oral abstract)
- 1999 Massachusetts risk factor coding: Is it worth the ink?
National Assembly of School-Based Health Centers Annual Meeting
Washington, D.C. (selected oral abstract)
- 2001 Building evaluation and self-monitoring capacity of coalitions.
Society of Public Health Education Annual Meeting
Atlanta, GA (selected oral abstract)
- 2002 Predictors of retention in care among HIV+ or at-risk youth.
Society for Adolescent Medicine Annual Meeting.
Boston, MA (selected oral abstract)
- 2003 An evaluation of a new alcohol policy for Massachusetts state colleges and universities.
American Public Health Association Annual Meeting

- San Francisco, CA (selected oral abstract)
- 2006 Predictors of retention in care among HIV+ and at-risk youth
Supercourse Lecture: Epidemiology, the Internet, and Global Health
Internet Lecture, Available at: <http://www.pitt.edu/~super1/index.htm>
- 2006 Approaches to community-based research: evaluating community model programs and participatory action research.
Society of Adolescent Medicine Annual Meeting.
Chicago, IL (selected workshop)
- 2006 Drinking and religiousness/spirituality among adolescents.
Association for Medical Education and Research in Substance Abuse Annual Meeting.
Bethesda, MD (selected oral abstract)
- 2006 Prevalence of positive screens for substance abuse among adolescent primary care patients.
Association for Medical Education and Research in Substance Abuse Annual Meeting,
Bethesda, MD (selected oral abstract, Best Abstract Award Winner)
- 2008 Household eating rules and adolescent fruit/vegetable intake and weight.
Society of Behavioral Medicine Annual Meeting.
San Diego, CA (selected oral abstract)
- 2009 "This is your brain on drugs": Adolescent substance use prevention through neuroscience education.
Association for Medical Education and Research in Substance Abuse Annual Meeting.
Bethesda, MD. (selected oral abstract, Best Abstract Award Semi-Finalist)
- 2010 Evaluation of a computerized SBIRT system for adolescent substance use: 3- and 12-month outcomes.
Association for Medical Education and Research in Substance Abuse Annual Meeting.
Bethesda, MD (selected oral abstract, Best Abstract Award Semi-Finalist)
- 2011 Computerized SBIRT for adolescent substance use: comparison of outcomes in two countries, USA and Czech Republic.
Society for Adolescent Health and Medicine Annual Meeting.
Seattle, WA (selected oral abstract)
- 2011 SBIRT to Reduce Adolescent Substance Use: Rationale and Overview.
Society for Adolescent Health and Medicine Annual Meeting
Seattle, WA (selected workshop)
- 2011 SBIRT to Reduce Adolescent Substance Use: Rationale and Overview. Mini-course.
Pediatric Academic Societies Annual Meeting.
Denver, CO (selected mini-course)
- 2011 Internet-facilitated SBIRT in Primary Care Settings for Adolescent Substance Abuse
National Institute on Drug Abuse Clinical Trials Network, Florida Node Alliance
Steering Committee Meeting
Miami, FL
- 2011 Screening and Brief Physician Advice to Reduce Teens' Risk of Substance-Related Car Crashes: An International Trial.
Association for Medical Education and Research in Substance Abuse Annual Meeting.
Bethesda, MD (selected oral abstract, Best Abstract Award Winner)
- 2012 Effects of a brief motivational intervention on adolescent substance abuse treatment engagement and outcomes.

- Association for Medical Education and Research in Substance Abuse Annual Meeting.
Bethesda, MD (selected oral abstract)
- 2013 Validity of computer vs. clinician screening of adolescents in primary care.
Association for Medical Education and Research in Substance Abuse Annual Meeting.
Washington, D.C. (selected oral abstract)
- 2014 Teaching About the Teen Brain: Linking Neuroscience and Health Curricula through the
Study of Addiction
National Science Teachers Association National Conference
Boston, MA (selected workshop)
- 2015 Medical marijuana diversion in two clinical populations of youth: early trends after
legalization.
Association for Medical Education and Research in Substance Abuse Annual Meeting.
Washington, D.C. (selected oral abstract)
- 2015 This is your brain on drugs: Adolescent Substance Abuse Prevention through
Neuroscience Education.
Inaugural Reward Deficiency Summit
San Francisco, CA (selected oral abstract)
- 2016 Talking to Teens about Marijuana Use (Webinar)
Hilton Foundation Youth Substance Use Prevention Grantees
- 2016 Clearing Away the Smoke: Educating Students about Today's Marijuana
Everfi's Annual Research Summit
Washington, D.C. (invited plenary speaker)
- 2016 Is screen time important? Efficacy of a computer-facilitated brief intervention for reducing
adolescent substance use is predicted by viewing time.
Association for Medical Education and Research in Substance Abuse Annual Meeting.
Bethesda, MD (selected oral abstract)
- 2016 Effective Recognition and Treatment of Adolescent Substance Use Disorders in
Primary Health Care Settings
Health Resources and Services Administration's Maternal and Child Health Bureau &
HRSA Behavioral Health Work Group Meeting
Washington, D.C.

International

- 2011 Adolescent SBIRT: Practical skills to screen and manage adolescent substance use in
the office practice.
8th Annual International Network on Brief Interventions for Alcohol Problems (INEBRIA)
Conference.
Boston, MA. (selected workshop)
- 2012 Screening and Brief Physician Advice to Reduce Teens' Risk of Substance-Related Car
Crashes: An International Trial.
9th Annual International Network on Brief Interventions for Alcohol and Other Drugs
Barcelona, Spain (selected oral abstract)
- 2013 "This is your brain on drugs": Adolescent substance use prevention through neuroscience
education.
10th Annual International Network on Brief Interventions for Alcohol and Other Drugs
Rome, Italy (selected oral abstract)

- 2014 Validity of computer vs. clinician screening of adolescents in primary care.
11th Annual International Network on Brief Interventions for Alcohol and Other Drugs
Warsaw, Poland (selected oral abstract)
- 2014 Computer-facilitated screening and physician brief advice: effects on heavy episodic
drinking among adolescents.
11th Annual International Network on Brief Interventions for Alcohol and Other Drugs
Warsaw, Poland (selected oral abstract)
- 2014 Adolescent Substance Use: Contemporary Strategies in Identification, Prevention, and
Treatment.
Conference on Alcohol and Drug Consumption and Dependence in Adolescents: New
Keys and New Challenges
University of Santiago de Compostela
Santiago de Compostela, Galicia, Spain (invited keynote speaker)
- 2016 Reliability and validity of past-12-month use frequency items as opening questions for the
updated CRAFFT adolescent substance use screening system.
13th Annual International Network on Brief Interventions for Alcohol and Other Drugs
Lausanne, Switzerland (selected oral abstract)

Report of Clinical Activities and Innovations

Clinical Innovations

- CRAFFT Screen (2002) CRAFFT is the first brief substance abuse screening tool. The tool was designed by John Knight and I guided the initial validation analysis and publication of results, and have continued to be an integral contributor in studies of its use in primary care settings, and its psychometric properties. CRAFFT was designed specifically for adolescents in busy primary care settings. The CRAFFT enabled adolescent substance use screening to become standard-of-care in pediatric primary care over the last 10 years, and is now the most widely studied, used, and recommended screener for adolescents worldwide. There are over 60 published studies to date using the CRAFFT in multiple languages. (www.crafft.org)
- CRAFFT 2.0 (2016) This is a revised version of the original CRAFFT screen which now includes substance use frequency assessment and has improved validity. I led the development of this improved version based on prior research. (www.crafft.org)
- State Behavior Scale (SBS) (2006) Brief standardized checklist for nurses initially developed by Martha Curley at BCH to assess level of sedation among intubated pediatric patients in critical care. The SBS is now among the core metrics in pediatric critical care nursing. I led the design of the validation study, analyzed the data, helped to refine and finalize the measure, and co-authored the initial article. (www.marthaqcurley.com/sbs.html)
- Withdrawal Assessment Tool (WAT) (2008) A brief tool for ICU providers co-developed by Martha Curley at BCH and Linda Franck at UCSF to assess level of withdrawal from opioid/benzodiazepine medication among critically-ill pediatric patients. I guided the design of the validation study, analyzed the data, helped to refine and finalize the measure, and co-authored the initial article. (<http://www.marthaqcurley.com/wat-1.html>)

Individualized Numeric Rating Scale (INRS) (2010) A pain assessment tool for nonverbal children with intellectual disability co-developed by Jean Solodiuk and Martha Curley at BCH. I guided the design of the validation study, analyzed the data, helped to refine and finalize the instrument, and co-authored the initial article. (<http://www.marthaagcurley.com/inrs.html>)

Report of Teaching and Education Innovations

Adolescent SBIRT Curriculum for Pediatric Trainees (2008) This curriculum consists of residency training modules for General Pediatrics, Adolescent Medicine, Pediatric Emergency Medicine, and Child Psychiatry teaching skills in screening, brief intervention and referral to treatment for adolescent substance use. I oversaw the evaluation of the initial training curriculum, including the development of the evaluation tools and protocols, and co-first-authored an article. The curriculum materials were then refined, adapted for other health disciplines (nursing, social work) and made available online for use both locally at Boston Children’s Hospital and nationally. <http://www.teensubstancescreening.org/curriculum-materials/multidisciplinary-materials/>

“Benefitting Brad”: Interprofessional Teaching Case of Adolescent Substance Use and ADHD (2015) This case consists of 4 sessions teaching skills in screening, assessment, management, and treatment of substance use and ADHD, highlighting the strengths of different specialties of the interprofessional team, and allowing opportunities for advocacy and leadership. I was part of the team that developed and wrote this teaching case, now published on MedEdPORTAL for widespread use. I created the section on teen brain development and the risks for, and effects of, adolescent substance use. (<https://www.mededportal.org/publication/10224>)

SBIRT for School Health Teams This is the first Massachusetts guide on adolescent substance use screening, brief intervention, and referral to treatment (SBIRT) for school health teams, developed to support the implementation of mandated substance use screening in MA middle and high schools beginning in 2017. I contributed substantially to the writing of this guide, produced in collaboration with the MA Department of Public Health. <http://www.masbirt.org/sites/www.masbirt.org/files/School%20SBIRT/SA3536.pdf>

Report of Technological and Other Scientific Innovations

Child Health and Illness Profile – Adolescent Edition This unique assessment tool enables a comprehensive evaluation of adolescent physical, mental, and social health in a population. As the project coordinator, I was part of the original interdisciplinary team led by Dr. Barbara Starfield that developed and initially validated this tool. It has been used by schools, health care providers, and communities throughout the U.S. and internationally, and is also available in Chinese, French, and Spanish (www.childhealthprofile.org).

Active Where? Survey Research tool assessing environmental and personal factors influencing child and adolescent physical activity. I was a member of the team that conducted the initial multi-site evaluation of the reliability and validity of this tool (<http://activelivingresearch.org/active-where->

[surveys](#)), and co-authored four articles.

Family-Centered Care Survey (FCCS)	A brief questionnaire for parents of pediatric inpatients assessing nursing care experience and the degree to which family-centered care is being delivered. I led the design the validation study, analyzed the data, helped to finalize the measure, and co-authored the initial article. (www.marthaaqcurley.com/fccs.html)
Adolescent Patient-Provider Interaction Scale (APPIS)	Adolescent patient questionnaire to assess perceptions of the patient-provider interaction and communication during a visit. I helped design the validation study, analyze the data, and co-authored the article.
Tool for Resuscitation Assessment using Computerized Simulation Tool (TRACS)	Tool for use in evaluating pediatric resident competency in pediatric resuscitation. I helped design the validation study, analyze the data, and co-authored the article.
Youth Connectedness to Provider Scale (YCP)	I developed this brief research tool for assessing the degree to which youth feel connected to their medical provider. This is now being used in all clinical trials conducted in our Center for Adolescent Substance Abuse Research, and has been incorporated into clinical trials conducted at other institutions such as UCSF.
Pediatric Inpatient Experience Survey (PIES)	Updated and shortened measure of patient and family experience of inpatient care at Boston Children’s Hospital, now validated in a national study of pediatric hospitals. I led its design, the validation study, helped with data analysis and finalizing the instrument, co-authored the article. The PIES contributed to the development of the new Child HCAHPS, a national tool for assessing patient reported outcomes for pediatric inpatients and their families (http://www.ahrq.gov/cahps/surveys-guidance/hospital/about/child hp_survey.html)

Report of Education of Patients and Service to the Community Activities

Those activities below sponsored by outside entities are so noted and the sponsor is identified.

2002	Report entitled “Underage Drinking in Massachusetts: the Facts and the Future.” Co-authors: Hingson R, Harris SK, Kelley K, Knight JR, Callahan T, Harner H, Schinazi J, Herr-Zaya K, Walker DK, Piken D, Wong IL, Harrington B. Sponsors: MA Youth Alcohol Prevention Task Force/ Mothers Against Drunk Driving.
2003-2011	BCH/Fenway High School/Boston Arts Academy Partnership to Promote Student Health/ Committee Chair Led student health needs assessment and provided data and consultation to help schools obtain funding and training for student mental health/substance abuse services; co-produced Student Health and Wellness Day with focus on nutrition and physical activity; Arts Academy Middle School advisory committee member
2004-2006	Maria Hastings Elementary School, Lexington MA, METCO Family Friends Program/ Coordinator
2005	Report on Student Health: Summary of the 2003 Survey Results. Fenway High School Boston Arts Academy

- 2006-2007 Maria Hastings Elementary School, Lexington MA/ School Council Member
- 2007-2017 The Teen Brain: What's Going On In There? Presentation to students.
Lexington High School, Lexington MA
Fenway High School, MA
Boston Arts Academy, MA
Minuteman Vocational Technical High School, Lexington MA
- 2009-2014 Coalition of Lexington Addressing Student Stress (CLASS)/ Core Group and Policy Group Member
- 2009-
2009, 2010 Lexington Public Schools/ School Health Advisory Council member
Student Stress: Prevalence, Effects on Learning and Health, and Strategies for Prevention and Intervention.
Presentations to school administrators, school committee, parents in Lexington, MA
- 2010 Teen-Safe website for parents (www.teen-safe.org)
This parent education website that we in CeASAR developed teaches parents the latest science on the developing teen brain, the risks associated with adolescent substance use, and tips for keeping youth safe. I co-led the development of the content.
- 2010 Stress and Our Children: Lessons for Home, School, and Community
Presentation to school administration, parents, teens, community in Lexington, MA
- 2011 Marijuana: Where will they be when the smoke clears?
Presentation to school staff, parents, teens, community in Wayland MA
- 2012 The Straight Dope on Marijuana
Lexington High School Community Forum
Presentation to school staff, parents, teens, community in Lexington MA
- 2012 The Teen Brain: What's Going on in There?
First Baptist Church, Scituate, MA
Presentation to community members
- 2013 Reducing Stress and Building Resiliency in Students
Lexington School Committee Meeting, Lexington MA
Presentation to town school committee and administrators.
- 2013-
Project SAM (Smart Approaches to Marijuana) (www.learnaboutsam.org)
Scientific Advisory Board Member
- 2013-2014 Lexington School Committee Ad Hoc Committee on Youth at Risk, Lexington MA/
Member
- 2013-2016 The Teen Brain: What's Going on in There?
Keynote presentation at Scituate High School Community Forum, Scituate, MA.
- 2014 The Teen Brain on Marijuana: What's Going on in There?
The Templeton Foundation, Philadelphia, PA
- 2014 The Teen Brain: What's Going on in There?
High School for Math, Science, and Engineering at City College of New York, New York, NY
Presentation to all students, faculty, and administrators.

- 2014 Physicians Committee for Responsible Medicine Forum on “Shaping a strategy to redefine alcohol research”/ Advisory Panel member
- 2015 They’re not crazy, they’re adolescents: Understanding the teen brain
Lexington Parent Academy, Lexington, MA
Presentation to parents.
- 2015 Clearing Away the Smoke: Our Teens and Marijuana
Marijuana Community Forum, Lexington, MA
Presentation to parents and community members.
- 2015 The Teen Brain: What’s Going on in There?
Nantucket High School, Nantucket, MA
Presentation to all students, faculty, administrators.
- 2016- Pomona College, Claremont, CA/ Parents Council Member
- 2016 Mental Health in College: How to Support Your Students
Pomona College, Claremont, CA
Presentation to parents.
- 2016 Adolescent Substance Use: Current Trends and Knowledge
Salem Public Schools, Salem, MA
Sponsor: Boston Children’s Hospital Community Education Initiative Program
Presentation to school nurses and guidance counselors.
- 2016 Clearing Away the Smoke: The Latest Science on Youth E-Cigarette and Synthetic Marijuana Use
Hopkinton Middle School, Hopkinton, MA
Presentation to faculty, school nurses, guidance counselors, administrators.
- 2016 Clearing Away the Smoke about Today’s Marijuana
Pomona College, Claremont, CA
Presentation to faculty, residence advisors and students
- 2016 Clearing Away the Smoke about Today’s Marijuana: Myths vs. Science
Allston-Brighton Substance Abuse Prevention Task Force
Presentation to youth, parents, community members
- 2016 This is Your (Developing) Brain on Drugs, 2016
Substance Use in Modern Society course
Department of Counseling and School Psychology at the College of Education and Human Development.
University of Massachusetts, Boston, Boston, MA
Presentation to students
- 2016 The State of the Science on Teen Brain Development and the Impact of Marijuana Use
Drug Courts: Where Justice and Treatment Meet - Regional Approaches to Tackling the Opioid Crisis Conference, Marlborough, MA
Workshop presentation to drug court officials

Report of Scholarship

Peer-Reviewed Scholarship in print or other media

Research Investigations:

1. Rolls BJ, **Kim S**, Fedoroff IC. Effects of drinks sweetened with sucrose or aspartame on hunger, thirst and food intake in men. *Physiology and Behavior*. 1990;48:19-26.
2. Rolls BJ, **Kim S**, McNelis AN, Fischman MW, Foltin RW, Moran TH. Time course of the effects of preloads high in fat or carbohydrate on food intake and ratings of hunger in humans. *American Journal of Physiology: Regulatory, Integrative and Comparative Physiology*. 1991;29:R756-R763.
3. Starfield B, Bergner M, Ensminger M, Riley A, Ryan S, Green G, McGauhey P, Skinner S, **Kim S**. Adolescent health status measurement: development of the Child Health and Illness Profile. *Pediatrics* 1993;91(2):430-435.
4. Rolls BJ, **Harris SK**, Fischman MW, Foltin RW, Moran TH, Stoner SA. Satiety following preloads with different amounts of fat and carbohydrate: implications for obesity. *American Journal of Clinical Nutrition*, 1994;60(4):476-487.
5. Starfield, B, Riley A, Green B, Ensminger M, Ryan S, Kelleher K, **Harris SK**, Johnston D, Vogel K. The Child Health and Illness Profile, Adolescent Edition: A population-based measure of adolescent health. *Medical Care* 1995;33(5):553-566.
6. Riley AW, **Harris SK**, Ensminger M, Ryan S, Alexander C, Green B, Starfield B. Behavior and injury in urban and rural adolescents. *Injury Prevention* 1996(Dec);2:266-273.
7. Shrier LA, **Harris SK**, Sternberg M, Beardslee WR. Associations of depression, self-esteem, and substance use with sexual risk in adolescents. *Preventive Medicine* 2001(Sep);33(3):179-189.
8. Shrier LA, **Harris SK**, Beardslee WR. Temporal associations between depressive symptoms and sexually transmitted disease among adolescents. *Archives of Pediatric and Adolescent Medicine*, 2002(Jun);156(6):599-606.
9. Knight JR, Sherritt L, Shrier LA, **Harris SK**, Chang G. Validity of the CRAFFT substance abuse screening test among general adolescent clinic patients. *Archives of Pediatric and Adolescent Medicine*, 2002(Jun);156(6):607-614.
10. Brooks TL**, **Harris SK**, Thrall JS, Woods ER. Association of adolescent risk behaviors with mental health symptoms in high school students. *Journal of Adolescent Health*. 2002(Sep);31:240-246.
11. Woods ER, Samples CL, Melchiono MW, Keenan PM, Fox DL, **Harris SK**. Initiation of services in the HAPPENS Program: human immunodeficiency virus-positive, homeless and at-risk youth can access services. *AIDS Patient Care and STDS*. 2002(Oct);16(10):497-510.
12. Knight JR, Sherritt L, **Harris SK**, Gates B, Chang G. Validity of brief alcohol screening tests among adolescents: a comparison of the AUDIT, POSIT, CAGE and CRAFFT. *Alcoholism: Clinical and Experimental Research*. 2003(Jan);27(1):67-73.
13. Shrier LA, **Harris SK**, Kurland M, and Knight JR. Substance use problems and associated psychiatric distress among adolescents in primary care. *Pediatrics*. 2003(Jun);111(6 Pt 1):e699-705.
14. Woods ER, Samples CL, Melchiono MW, **Harris SK**. HAPPENS Program: HIV-positive, homeless and at-risk youth can access care through youth oriented HIV services. *Seminars in Pediatric Infectious Diseases*. 2003(Jan);14(1):43-53.
15. **Harris SK**, Samples CL, Keenan PM, Fox DJ, Melchiono MW, Woods ER. Outreach, mental health, and case management services: can they help to retain HIV-positive and at-risk youth and young adults in care? *Maternal and Child Health Journal*. 2003(Dec);7(4):205-218.

16. Knight JR*, **Harris SK***, Sherritt L, Kelley K, Van Hook S, Wechsler H. Heavy drinking and alcohol policy enforcement in a statewide public college system. *Journal of Studies on Alcohol*. 2003(Sept);64(5): 696-703.
17. Dioun AF, **Harris SK**, Hibberd PL. Is maternal age at delivery related to childhood food allergy? *Pediatric Allergy and Immunology*, 2003(Aug);14(4):307-311.
18. Knight JR, Sherritt L, Gates EA, **Harris SK**. Should the CRAFFT substance abuse screening test be shortened? *Journal of Clinical Outcomes Management*. 2004;11(1):19-25.
19. Levy S**, Sherritt L, **Harris SK**, Gates E, Holder DW, Kulig JW, Knight JR. Test-retest reliability of adolescents' self-report of substance use. *Alcoholism: Clinical and Experimental Research*. 2004(Aug);28(8):1236-41.
20. Callahan T**, Woods ER, Austin SB, **Harris SK**. Young adults in Massachusetts: who is at risk of being uninsured? *Journal of Adolescent Health*. 2004(Nov);35(5):425.e19-425.e27.
21. Levy S**, **Harris SK**, Sherritt L, Angulo M, Knight JR. Drug testing of adolescents in ambulatory medicine: physician practices and knowledge. *Archives of Pediatrics and Adolescent Medicine*. 2006(Feb);160(2):146-150.
 - Levy S, Harris SK, Sherritt L, Angulo M, Knight JR. Letter in reply. *Archives of Pediatrics and Adolescent Medicine*. 2006;160(8):854.
22. Curley MAQ*, **Harris SK***, Fraser K, Johnson R, Arnold JH. State Behavioral Scale (SBS): A sedation assessment instrument for infants and young children supported on mechanical ventilation. *Pediatric Critical Care Medicine*. 2006(Mar);7(2):107-114.
23. Woods ER, Klein JD, Wingood GM, Rose ES, Wypij D, **Harris SK**, DiClemente RJ. Development of a new adolescent patient-provider interaction scale (APPIS) for youth at-risk for STDS/HIV. *Journal of Adolescent Health*. 2006(Jun);38:753e1-e7.
24. Levy S**, **Harris SK**, Sherritt L, Angulo M, Knight JR. Drug testing of adolescents in general medical clinics, in school and at home: physician attitudes and practices. *Journal of Adolescent Health*. 2006(Apr);38(4):336-42.
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Narrative Report

Introduction: I am an investigator in the Divisions of Adolescent/Young Adult Medicine and Developmental Medicine at Boston Children's Hospital, and Co-Director of the Center for Adolescent Substance Abuse Research (CeASAR). My research career has focused on adolescent health and behavior, particularly substance use and its influences and consequences, and on developing and testing innovative strategies for preventing risky adolescent behaviors and associated negative outcomes through early identification and intervention. In addition, with my expertise in measurement, questionnaire design, and survey-based research, I have guided the development of a number of widely-used pediatric clinical and research measures, mentored many trainees/investigators in survey-based research, founded and directed the Survey and Measurement Core of the Boston Children's Hospital (BCH) Clinical Research Program, and worked with the BCH Program for Patient Safety and Quality in improving patient experience measurement.

Area of Excellence: Investigation: My primary research focus has been to develop and test screening, prevention, and intervention strategies targeting adolescent substance use and related risk behaviors. I was recruited from MDPH in 1999 to consult on research methods and measurement with researchers and fellows in Adolescent Medicine, the Clinical Research Program, and John R. Knight, MD, CeASAR's founder. I was instrumental in the completion and publication in 2002 of the initial validation study of the CRAFFT, the first brief substance abuse screener specifically designed for adolescents. Its practicality and established validity among adolescents promoted its widespread use in busy front-line medical and community settings such as primary care offices and schools, an important step towards population-level impact. The CRAFFT has become the most studied and recommended adolescent substance abuse screener worldwide (a 2016 PubMed search found 66 publications mentioning the CRAFFT). I have since led the development of a CRAFFT version 2.0 which reflects updates to enhance validity based on further research on adolescent substance use screening, including a NIH-funded study that I led and published. In 2013, I took on the role of CeASAR's Co-Director, leading the design and implementation of all CeASAR projects. During my tenure at CeASAR, we have been awarded 13 NIH grants, with my overseeing study design, development of data collection tools, study implementation, and data analysis, and John Knight overseeing pediatrician training, and the development of interventions suitable for primary care settings. I first-authored the paper reporting results of the first large multi-site trial of computer-facilitated Screening and clinician Brief Advice (cSBA) for adolescent alcohol and drug use in primary care. This study was conducted in two countries and involved 20 pediatric and family primary care practices. I currently lead one of the largest multi-site psychometric studies funded by the National Institute on Alcohol Abuse and Alcoholism evaluating, among adolescent primary care patients, the performance of a computerized version of its new Youth Alcohol Screening Guide.

I also led the broadening of our CeASAR research portfolio to include a Neuroscience Research arm through a partnership with Dr. Marisa Silveri, Director of the Neurodevelopmental Laboratory on Addictions and Mental Health at the McLean Imaging Center. We are collaborating on a longitudinal brain imaging study of the effects of early adolescent alcohol and marijuana use initiation. I have also collaborated with numerous investigators on the development and testing of clinical and research measurement tools, including Dr. Martha Curley, Professor in Nursing Science at University of Pennsylvania School of Nursing, developing and testing several core clinical measures for use in pediatric nursing (e.g., the State Behavioral Scale, a measure of sedation in mechanically ventilated children; the Individualized Numeric Rating Scale, a tool to measure pain in nonverbal children with intellectual disability). In addition, other collaborators include Dr. Alexander Fiks, Director of the American Academy of Pediatrics Pediatric Research in Office Settings network, to develop a national trial of cSBA; Dr. Elizabeth Ozer at UCSF to develop and test a computer game for teens designed to prevent/reduce binge drinking; and Dr. Kimberly O'Brien to develop and pilot-test a cSBA version that includes adolescent suicide risk screening and brief intervention. I have also been invited to participate in national collaborations including serving on the NIDA Clinical Trials Network's Steering Committee charged with designing a national trial of primary care-based adolescent substance use screening and brief intervention, and chairing the Clinical Preventive Services Working Group of the new MCHB-funded Adolescent Health Research Network and first-authoring a scoping review of research to date on system- and

visit-level strategies for increasing the delivery and quality of clinical preventive services (CPS) targeting adolescents and young adults.

Teaching and Educational Leadership and Significant Supporting Activities:

Teaching and Educational Leadership and Special Merit in Education: Teaching and mentoring have comprised a significant part of my career. In my role as Senior Survey Methodologist in the Boston Children's Hospital Clinical Research Program (CRP) between 1999 and 2007, I taught and mentored numerous investigators, both trainees and faculty, throughout Boston Children's Hospital and the larger Harvard Medical School community in the design and implementation of surveys and survey-based research, psychometric assessment of measures, and analysis and reporting of survey data. I have collaborated with, or provided consultation to over 80 investigators since 1999 and have supported many investigators to successfully obtain grant funding for their survey-based projects. I was also instrumental in integrating the latest science on the adolescent brain and substance use harms into curricula and educational materials for the Boston Children's Hospital pediatric residency, social work, and adolescent medicine fellowship training programs. I spend more than 100 hours per year on average teaching and mentoring Harvard trainees and faculty across disciplines (medicine, psychology, social work, public health), including serving as faculty co-leader for the Substance Abuse Case module of the Leadership Education in Adolescent Health fellowship program each year. I have also mentored undergraduate and graduate student interns, visiting international scholars (Spain and Brazil), and served on doctoral dissertation committees. I also teach at a variety of professional educational activities, such as CME courses, each year. I received the Estherann Grace Teaching Award in 2015 from the BCH Division of Adolescent/Young Adult Medicine. I have also given talks and workshops nationally and internationally on survey design, adolescent substance use screening and brief intervention, the effects of alcohol and marijuana use on adolescent brain development, and state marijuana policy effects.

Administration and Institutional Service: In 2008, I founded the Boston Children's Hospital Clinical Research Program's Survey and Measurement Core, which consisted of survey methodologist staff that provided consultation on survey-based research projects. I served as Core Director until 2010, overseeing the staffing of the Core, specifying its key objectives and activities, and identifying or developing survey research tools and resources for investigators throughout the hospital. In addition, as BCH sought to revise, shorten, and update a number of its care quality assessment tools, I led the teams designing and administering surveys to monitor trainee education and assess quality of care issues such as coordination of care of complex patients. I served as Chair of the BCH Inpatient Experience Survey Working Group and led the hospital's efforts to improve the surveys being used to assess patient care experiences (both inpatient and ambulatory care). Currently, I provide measurement and statistical consultation as a member of the Evaluation Steering Committee of the TriVox System (Eugenia Chan and Eric Fleegler, PI), a major hospital initiative to implement a computerized clinical information tool to improve quality of care and outcomes for patients with chronic conditions (e.g., ADHD, asthma) while reducing unnecessary healthcare utilization and costs of care.

Education of Patients and Service to the Community: I am active in teaching locally, nationally, and internationally, giving numerous talks each year to adolescents, parents, educators, and public health and medical professionals on the latest science regarding the teen brain and harms associated with adolescent substance use, as well as on evidence-based strategies for adolescent substance abuse prevention and intervention. These presentations served as the basis for a unique Web-based "course" for parents (www.Teen-Safe.org) that I co-developed with John R. Knight in 2013. The Teen-Safe.org website was an effort to reach many more parents efficiently and was designed to educate and equip them to prevent and/or detect substance use problems in their adolescents. This website has been utilized by schools and communities all over the U.S. as a parent education tool. Additionally, I have given numerous presentations to schools, and collaborated with health and science teachers at one area high school to integrate developmental neuroscience and the neurobiology of addiction into their respective curricula. The educators

and I then co-presented the curriculum materials and teaching plan in a workshop attended by over 130 participants at the National Science Teachers Association annual meeting in 2014.

In summary, my investigative career has helped to advance the field of adolescent substance use screening and health measurement worldwide, and I am a pioneer in the building of an evidence base for the feasibility and efficacy of adolescent substance use screening and brief intervention in busy general medical and community settings. These efforts have contributed to the growth of adolescent substance use screening and brief intervention delivery nationally, which is critical to achieving population-level impact in our public health battle to reduce mortality and morbidity associated with addictive substances.