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ICHP Leadership

Elizabeth A. Shenkman, Ph.D., Director
Since 2003, Dr. Shenkman has led the Institute for Child Health Policy (ICHP), which brings together a multidisciplinary faculty from across the University of Florida (UF) to conduct innovative, rigorous research that promotes the health of children, adolescents and young adults. Dr. Shenkman works with the Patient-Centered Outcomes Research Institute (PCORI) to set the national agenda for child health research and to lead the OneFlorida Clinical Research Consortium. As director of ICHP, she has positioned the institute for increased collaboration and growth across the UF campus and at the state and national level. Dr. Shenkman also serves as chair of the Department of Health Outcomes and Biomedical Informatics in the UF College of Medicine. Her research portfolio focuses on reducing health disparities for adults and children through the use of large, linked data sets to examine quality and outcomes of care in diverse real-world settings and to develop and implement corresponding evidence-based strategies to improve health outcomes. Dr. Shenkman also serves as co-director of UF’s National Institutes of Health (NIH)-funded Clinical and Translational Science Institute (CTSI). In this role, she collaborates with faculty and staff to promote the development of implementation science, pragmatic clinical trials and comparative-effectiveness research, and research across the lifespan. In 2017, she was appointed associate director for population sciences at the UF Health Cancer Center.

Matthew J. Gurka, Ph.D., Associate Director
As the associate director of ICHP, Dr. Gurka is involved with strategic planning to expand the institute’s presence and address barriers to child health research on campus. In addition, he leads initiatives to encourage collaboration by refining and expanding the institute’s affiliate faculty program. His research focus includes a wide range of applications of biostatistics to medical research, from the design and analysis of observational studies to the coordination and analysis of multicenter longitudinal studies. He also has extensive collaborative and independent research experience in pediatrics. With funding from the National Institute of Child Health and Human Development (NICHD), he studied the impact of chronic illnesses such as asthma on development and behavior in children and adolescents. Recently, he has focused on obesity and the metabolic syndrome, both in children and adults. He has obtained NIH funding to develop and validate tools to measure the severity of the metabolic syndrome that take into account gender and racial/ethnic differences.

Lindsay A. Thompson, M.D., M.S., Assistant Director of Clinical Research
As a practicing clinician at UF Health, a health services researcher and an associate professor of pediatrics and health outcomes and biomedical informatics at UF, Dr. Thompson provides an important interdisciplinary bridge between ICHP’s established research portfolio in community-based research and its growing interest in clinical care. Dr. Thompson is helping to lead ICHP’s strategic planning efforts and serves as a co-investigator on two research grants that run through ICHP. One study uses health information technology to improve adolescent vaccination rates, and the other aims to create quality measures for oral health in pediatric settings. As assistant director of clinical research at ICHP, Dr. Thompson helps to build more research collaborations between institute and pediatric faculty, secure clinical settings as research venues, and provide clinical insight for the institute’s studies.
ICHP’s 32 affiliate members include four members of the Society for Pediatric Research (SPR), one member of the American Pediatric Society (APS), one Fellow of the American Statistical Association, one member of the American College of Medical Informatics, and three UF preeminence faculty. For a complete list of ICHP affiliate members and student affiliates, see Table 2 and Table 3 in the Appendix.

### Annual Operating Budget

<table>
<thead>
<tr>
<th>Year</th>
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</tr>
</thead>
<tbody>
<tr>
<td>2014-2015</td>
<td>$1,037,827</td>
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<tr>
<td>2015-2016</td>
<td>$1,053,752</td>
</tr>
<tr>
<td>2016-2017</td>
<td>$1,084,040</td>
</tr>
<tr>
<td>2017-2018</td>
<td>$1,088,239</td>
</tr>
<tr>
<td>2018-2019</td>
<td>$1,112,120</td>
</tr>
</tbody>
</table>

### Extramural Research Support (FY 2014-2018)

TOTAL $161,698,368

- NIH, $12,441,279
- State Funding, $8,530,346
- Other Federal Funding, $130,096,037
- Foundation/Other, $10,630,691
Mission Statement and Goals

The Institute for Child Health Policy at the University of Florida embraces four main goals and strategies to achieve its mission and vision. Strategic planning for ICHP began in early 2016 and ended with this strategic plan that was implemented in early 2017:

Mission: To conduct and promote rigorous research that leads to evidence-based strategies for improving the lifelong health of children.

Vision: To be a transdisciplinary hub for child health research at UF, nationally and internationally, that improves the health and wellness of children and their families and communities.

Goals:

1. **To generate new knowledge and evidence-based interventions to improve the health care and health outcomes of children and youth by providing a data-rich infrastructure for pragmatic clinical trials, comparative-effectiveness research and implementation science studies.**

   The Institute for Child Health Policy, through shared resources with the UF CTSI, the OneFlorida Clinical Research Consortium, and the Department of Health Outcomes and Biomedical Informatics, hosts extensive data resources to generate knowledge about factors influencing the health status and health outcomes of children and youth. These data sources include electronic health records, other routinely collected health care information and geospatial data, including information about social determinants of health. The data reside in the (a) Family Data Center, which has over 20 years of mother-baby data linked to vital statistics records and (b) OneFlorida Data Trust with linked electronic health record, health care claims, social determinants of health data, and tumor registry data. These data are the foundation for multiple studies, funded through PCORI, the Agency for Healthcare Research and Quality (AHRQ) and the National Cancer Institute (NCI), that focus on improving health outcomes for children, including those who are particularly vulnerable because of their socioeconomic status, residence in rural or other medically underserved areas, and/or the presence of chronic conditions.

   With appropriate approvals, these data are available to researchers for cohort discovery, pragmatic clinical trials, comparative-effectiveness research, observational studies, and implementation science studies. The OneFlorida Data Trust has a researcher-focused query function (i2b2), which facilitates study feasibility determination and other preparation-to-research activities.

2. **Catalyze child health research at UF, nationally and internationally.**

   ICHP catalyzes child health research through (a) fostering team science, (b) making data resources available, and (c) facilitating connections to collaborators throughout UF, the United States and internationally. In the area of team science, ICHP conducts outreach to investigators to facilitate study collaboration, and provides expertise related to study design and analyses. Additionally, through the OneFlorida initiative, ICHP has data-use agreements with partners nationally, including PEDSnet, the only pediatric-focused clinical research network in the United States. PEDSnet is housed at the Children’s Hospital of Philadelphia and includes a network of 12 children’s hospitals.
OneFlorida combined with PEDSnet jointly have one of the largest child health databases in the United States. These data are invaluable and provide an outstanding resource for researchers conducting child health research.

In terms of international collaborations, research is developing with collaborators in Great Britain focused on novel methodologies to leverage large, linked data to better understand underlying clinical, genomic and social factors influencing health outcomes. There are also international studies to develop more effective strategies to reduce the use of tobacco products among adolescents and young adults.

3. **Foster the development of careers focused on child health care delivery and outcomes research.**

ICHP provides support for two pre-doctoral students focused on children’s health. In addition, ICHP is developing a post-doctoral fellowship in children’s health research. These programs provide the foundation for future training grant opportunities.

4. **Foster public and stakeholder engagement in child health research throughout Florida and nationally.**

ICHP has a longstanding history of conducting stakeholder-engaged research including partnerships with parents, adolescents, young adults, clinicians, payers and policymakers. Our state agency partnerships include Florida Medicaid, the Florida Department of Health, and federal agencies including the Centers for Medicare and Medicaid Services (CMS). These state and national relationships are essential for translating evidence-based findings into policy recommendations to improve children’s health. ICHP also collaborates with targeted community partners, such as schools, through pilot projects, with the goal of building lasting partnerships to facilitate research from topic identification through information dissemination.
Summary of Activities (2014-2019)

During the past 5 years, ICHP has consistently met and exceeded all of the College of Medicine’s minimum criteria for centers and institutes to remain active:

1. A membership of 33 faculty from complementary fields have expertise in the following areas: pediatrics, early learning, promoting health weight, health disparities, biomedical informatics, spatial analysis, epidemiology, health outcomes research, implementation science, tobacco control, cancer control and prevention, youth emotional and behavioral health, program evaluation, biostatistics, survey design and analysis, maternal health, and economics. ICHP’s affiliate faculty program has representation from the College of Education, the College of Liberal Arts and Sciences, and the College of Engineering, along with the UF Health Cancer Center and the College of Medicine’s Department of Pediatrics. ICHP also represents child health interests within the OneFlorida Clinical Research Consortium and the UF CTSI at both the university and national level (see Table 2 and Table 3 in the Appendix).

2. $161 million in extramural research support pertaining to ICHP’s mission—a 200 percent increase in extramural funding compared to the past reporting period (see page 3).

3. Publications, workshops and conferences that demonstrate collaboration among members. These include (a) an annual campus-wide ICHP Research Day, which features a nationally renowned keynote speaker, networking reception and abstract/poster session; (b) active research collaborations with the UF CTSI and five other CTSIs nationwide to develop a national initiative aimed at accelerating research on screening for adverse childhood experiences (ACEs) in pediatric primary care settings; (c) a collaborative workshop on transgender care presented by faculty affiliated with ICHP and the Department of Pediatrics at the Pediatric Academic Societies (PAS) annual meeting in 2016 and 2017, and (d) collaboration and mentoring of at least seven abstracts scheduled to be presented at the PAS annual meeting in April 2019.

4. ICHP’s director, Dr. Elizabeth Shenkman, is actively involved in ICHP’s activities through regular planning with ICHP associate and assistant directors, core faculty and affiliate members. In addition, Dr. Shenkman maintains a strong extramurally funded child health research program.

5. ICHP’s internal advisory committee consists of Drs. Shenkman, Gurka, and Thompson, who regularly consult with ICHP affiliates and external consultants to develop, update and implement ICHP’s 5-Year Strategic Plan.

6. ICHP maintains communication through an active, dedicated website (http://ichp.ufl.edu/) that is regularly updated with news, events and research findings translated into understandable terms for lay readers. ICHP also publishes an annual progress report, which provides an overview of ICHP’s mission, vision, research, funding awards and membership program. ICHP’s monthly ICHP in a Minute e-newsletter, sent to affiliate members and hundreds of UF Health faculty and staff, includes child health news, events, and funding opportunities for researchers.

In addition to maintaining the College of Medicine’s criteria for institutes and centers, ICHP has contributed to the preeminence status of UF and the goal of becoming one of the nation’s top 10 public universities through the following:
I. An outstanding academic environment for diverse faculty and staff (UF Goal 1, Objective 1)

ICHP has always had a diverse, multidisciplinary faculty and staff, which has grown over the past five years to 20 core faculty and 132 staff members. Among the 152 faculty and staff are 106 women, seven African Americans, 11 Hispanics, 39 Asians, and one Alaskan Native. Acknowledging that diversity with respect to demographics beyond gender is an area that needs improvement, ICHP has increased efforts to recruit underrepresented minority faculty. Three ICHP faculty and staff are from underrepresented minority groups. Two of these faculty were recruited in 2015 and both have recently received NIH K01 awards (see below). ICHP will continue efforts to increase diversity among its faculty and continue to promote their success.

II. Faculty recognition by students and peers (UF Goal 3, Objectives 1, 3 and 4)

Objective 1. An increased number of faculty recognized by distinguished awards, fellowships and memberships; Objective 3. An increased professional and public visibility of UF faculty; Objective 4. An increased faculty participation in professional service and leadership.

ICHP members have received national recognition for their expertise and service in leadership positions in their fields. Highlights from the past 5 years:

Michelle Cardel, Ph.D., R.D., M.S.

- Winner of American Society of Nutrition’s Young Minority Investigator Award (November 2015).
- Selected speaker at Obesity Week 2016 Symposium (April 2016).
- Fellow of the Obesity Society.
- Fellow of the University of California San Francisco’s Research in Implementation Science for Equity (RISE) program, sponsored by the National Institutes of Health.
- Presented social-determinants-of-health research at National Academy of Medicine’s Obesity Interest Group (May 2016).
- Appointed Chair-Elect of American Society of Nutrition’s Obesity Research Interest Section (2016).
- Participant in NIH-sponsored grant-writing workshop sponsored by the Association of American Medical Colleges.

Matthew Gurka, Ph.D.

- Joined ICHP and UF as a full professor in 2015 through UF’s Preeminence Initiative. Dr. Gurka holds a joint faculty appointment with UF’s Anita Zucker Center for Excellence in Early Childhood Studies.
- Elected to the Society for Pediatric Research for outstanding contributions to pediatric research (2017).
- Helped organize and host UF’s inaugural Early Childhood National Summit in 2017, convened by the Anita Zucker Center for Excellence in Early Childhood Studies. The gathering brought together more than 100 stakeholders from around the country.
- Developed a new section about statistics for the Journal of Pediatrics: “Statistics, Explained,” which helps readers understand some of the increasingly complex statistical methods now used in child health research.
• Appointed member of the NIH Kidney, Nutrition, Obesity, and Diabetes (KNOD) Study Section (2017-2022).

Amanda Hicks, Ph.D.

• Served on the NICHD’s Pediatric Adverse Event Terminology Working Group, an international team of child health researchers convened to develop a terminology for adverse events in pediatric research and clinical care. The group’s groundbreaking work was published in the January 2017 issue of *Pediatrics*.

William Hogan, M.D., M.S.

• Joined UF and ICHP in 2014 through UF’s Preeminence Initiative to start a division of biomedical informatics in the College of Medicine and to direct biomedical informatics at the UF CTSI.
• Elected to membership in the American College of Medical Informatics, one of the highest honors in the field of biomedical informatics (2017).

Dominick Lemas, Ph.D.

• Named one of 10 Keystone Symposia fellows, a two-year fellowship program for minority junior faculty funded in part by the NIH.

Keith Muller, Ph.D.

• Appointed member of the NIH Biostatistical Methods and Research Design (BMRD) Study Section (2017-2022).
• Fellow of the American Statistical Association.

Ramzi Salloum, Ph.D.

• Served a term on the American Academy of Pediatrics (AAP) Tobacco Consortium, which sets a national agenda for child and adolescent tobacco prevention and cessation for the AAP’s Julius B. Richmond Center of Excellence (2017).
• Fellow of the National Cancer Institute’s Mentored Training for Dissemination and Implementation Research program at Washington University in St. Louis. This elite 2-year program provides mentored training for scientists conducting dissemination and implementation research (2016-2018).

Elizabeth Shenkman, Ph.D.

• Appointed as co-chair of PCORI’s Pediatric Collaborative Research Group, which developed a national agenda for child health research for PCORI (2016-2018).
• Member of the Society for Pediatric Research and the American Pediatric Society, the oldest and most prestigious academic pediatric organization in North America. Members in both organizations are elected by their peers and recognized as academic leaders in pediatrics, providing significant contributions to advancing child health.
• Received a University of Florida Research Foundation Professorship from 2015-2018 in recognition of outstanding scholarship.
• Received a University of Florida Term Professorship from 2018-2020.
• Received the outstanding Basic Science Research Award in the College of Medicine (2017).

**Stephanie Staras, Ph.D.**
• Received a University of Florida Term Professorship from 2018-2020.
• Elected to Society for Pediatric Research for outstanding contributions to pediatric research (2018).
• Fellow of the National Cancer Institute’s Mentored Training for Dissemination and Implementation Research program at Washington University in St. Louis. This elite 2-year program provides mentored training for scientists conducting dissemination and implementation research (2016-2018).
• Editorial board member of the *Journal of Adolescent Health*.

**Lindsay Thompson, M.D., M.S.**
• Received the American Academy of Pediatrics 2017 Local Hero Award, which recognizes recipients for their outstanding community action and advocacy for children in local communities. Dr. Thompson was one of only two pediatricians in the United States and Canada to receive the award.
• With a pilot grant from the UF CTSI, led a national initiative involving four additional CTSIs aimed at accelerating research on screening for adverse childhood experiences (ACEs) in the pediatric primary care setting.
• Member of the Society for Pediatric Research.

**Objective 2. An increased number of high-impact scholarly publications and creative works.**

The 404 papers published by ICHP faculty members during the past 5 years reflect our accomplishments and innovation in using large, linked datasets combined with the science of health outcomes and biomedical informatics to address the most challenging child health issues of today. We have an unwavering focus on health disparities, particularly among rural and underrepresented minority populations. We improve health through the conduct of pragmatic clinical trials in real-world settings to better understand the effects of interventions in the context in which care occurs.

**Table 1** represents our top eight papers from 2017 and 2018 that ICHP leadership selected to illustrate some of our key scholarly publications.

**Table 1. Key Scholarly Publications of ICHP Faculty, 2017-2018**

<table>
<thead>
<tr>
<th>Author</th>
<th>Publication</th>
<th>Rationale</th>
</tr>
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<tbody>
<tr>
<td>Chris Delcher</td>
<td>Pauly NJ, Slavova S, Delcher C, Freeman PR, Talbert J. Features of Prescription Drug Monitoring Programs Associated with Reduced Rates of Prescription Opioid-Related Poisonings. Drug and Alcohol Dependence (2018); 184(1):26-32.</td>
<td>Paper was selected because it is the first time that prescription drug monitoring programs were shown to reduce opioid-related overdoses in the country; which is significant with the current opioid epidemic. The paper was published in <em>Drug and Alcohol Dependence</em>, one of the leading journals in substance abuse research.</td>
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<tr>
<td>Author</td>
<td>Publication</td>
<td>Rationale</td>
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</tr>
<tr>
<td>Elizabeth Shenkman and William Hogan</td>
<td>Shenkman E, Hurt M, Hogan W, et al. OneFlorida Clinical Research Consortium: Linking a Clinical and Translational Science Institute With a Community-Based Distributive Medical Education Model. Academic Medicine : Journal of the Association of American Medical Colleges. 2018;93(3):451-455. doi:10.1097/ACM.0000000000002029.</td>
<td>This paper describes the culmination of 6+ years of collaborative work with the CTSI and the accomplishment of a major objective of our CTSA (one of four key objectives). Namely, it describes the completion of laying the firm foundation of a statewide research infrastructure for comparative effectiveness research, implementation science, and pragmatic trials. It also describes OneFlorida’s achievement of becoming just one of 13 clinical data research networks in the National Patient-Centered Clinical Research Network (PCORnet). It discusses the major programs of OneFlorida, including the Citizen Scientist Program, the Data Trust, the Clinical Research Program, and the Minority Education Program. The paper appears in Academic Medicine, which is highly regarded journal that has the attention of college of medicine faculty and administration nationwide. It ranks #1 of 41 in the Education, Scientific Disciplines category and #5 of 90 in the Health Care Sciences &amp; Services category. It has an impact factor of 4.801.</td>
</tr>
<tr>
<td>Michelle Cardel, Matthew Gurka</td>
<td>Gurka MJ, Golden SH, Musani SK, Cardel M, et al. Independent associations between a metabolic syndrome severity score and future diabetes by sex and race: the Atherosclerosis Risk In Communities Study and Jackson Heart Study. Diabetologia. 2017;60(7):1261-1270. doi:10.1007/s00125-017-4267-6.</td>
<td>This paper explores the link between psychosocial stress and the severity of metabolic syndrome in African Americans. The focus is on whether chronic stressors such as racial discrimination or being the victim of a violent crime might be contributing to the disparity. To find out whether chronic stress exacerbates the severity of the metabolic syndrome in African Americans, the authors used data that already had been collected for the</td>
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</tbody>
</table>
Objective 5. A nurturing and invigorating academic and professional environment for all faculty across the research, teaching, and service missions of the university.

During the past 5 years, two ICHP members have received K01 Mentored Research Career Development Awards from the National Institutes of Health, with senior ICHP members serving on their mentoring teams. The K01 awards provide early-career research scientists with funding support and protected time for an intensive, supervised career development experience in the biomedical, behavioral, or clinical sciences. Award recipients work closely with multidisciplinary mentorship teams for the duration of their awards.

**Michelle Cardel, Ph.D., R.D., M.S.**, plans to develop an effective weight loss intervention for teenagers using a behavioral approach that has already been successful with adults. Dr. Cardel’s research focuses on understanding factors that contribute to the development of obesity in adolescents and young adults, and implementing programs to treat obesity. With support from the 5-year, $782,234 grant, Cardel plans to develop and test what is known as an acceptance-based therapy weight loss intervention to help teenagers who are struggling with excessive weight gain and obesity. **Dr. Matthew Gurka** serves on her mentoring team.

**Dominick Lemas, Ph.D.**, received a 5-year, $755,785 K01 award from the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) to study how human milk and exclusive breastfeeding in the first year of a child’s life protects against childhood obesity. With his K01 award, Lemas plans to recruit a longitudinal cohort of mom-baby pairs to investigate how human milk affects the infant gut microbiome and identify the microbe-host interactions that occur in exclusively breastfed babies that may protect against obesity. **Dr. William Hogan and Dr. Keith Muller** serve on his mentoring team.

In 2019, working in collaboration with the Department of Pediatrics’ Pediatric Research Hub (PoRCH), Drs. Gurka and Thompson mentored seven abstract submissions that were accepted for presentation at the annual Pediatric Academic Societies Meeting, the nation’s leading event for academic pediatrics and child health research.
III. Increased intramural and extramural funding that enhances both basic and translational research (UF Goal 4, Objective 3)

As noted earlier, from fiscal year 2014 through fiscal year 2018, ICHP garnered more than $161 million in extramural research, which includes funding from the NIH, PCORI, AHRQ, the Centers for Medicare and Medicaid Services, the U.S. Department of Justice, and others (see page 3). This represents a 200 percent increase over the $78,976,895 in extramural funding reported in the previous five-year period.

IV. Growth in research and scholarship that enhances fundamental knowledge and improves the lives of the world’s citizens (UF Goal 4, Objectives 1 and 4)

ICHP plays a strategic leadership role in bringing together UF’s faculty across the translational spectrum (T1-T4) to generate new knowledge about children’s health outcomes by (1) creating the necessary infrastructure and transdisciplinary collaborators for today’s data-driven research; (2) conducting novel clinical trials and precision population health initiatives to address complex child health issues and health disparities; (3) translating findings into clinical practice using implementation science strategies; and (4) providing advanced training and mentoring programs.

1. Creating research infrastructure and fostering transdisciplinary collaborations

During the past 5 years, ICHP has developed the infrastructure and research networks to conduct pediatric pragmatic clinical trials and implementation science studies using transdisciplinary teams of collaborators.

- **Developed innovative methods of data-linking.** ICHP has developed innovative and nationally unique integrated data repositories with linked health care data, including electronic health records, health-care claims, vital statistics, immunizations, environmental data, geographic data, and parent- and child-reported outcomes to characterize children’s health and outcomes of care. This innovative data linkage has contributed to the receipt of an NCI R21 focused on improving the uptake of the human papillomavirus (HPV) vaccine with a follow-up R01 that is pending. It also resulted in the receipt of a U18 from the Agency for Healthcare Research and Quality (described below) focused on improving the quality of oral health care for children and care for children taking antipsychotic medication. Additionally, PCORI provided funding to develop algorithms to better identify children with Type 2 diabetes.

- **Built a statewide research network of academic health centers, hospitals and clinics, and a database of electronic health records.** The OneFlorida Clinical Research Consortium, a statewide clinical research network and database, serves as a resource for the state in facilitating real-world health care research and improving health, health care and health policy. Funded by a $7.9 million grant from PCORI, OneFlorida’s Clinical Practice Network consists of 4,100 providers, 1,240 practices/clinics and 22 hospitals representing all 67 counties in Florida. The OneFlorida Data Trust, housed on the University of Florida campus, contains electronic health records, claims and encounter forms and other data for approximately 15 million patients throughout Florida, including 5 million children. OneFlorida is one of only nine clinical research network (CRN) sites that comprise PCORnet. The OneFlorida Data Trust has a researcher-focused query function (i2b2), which facilitates study feasibility determination and other preparation-to-research activities.
Collaborated with UF’s Family Data Center to build comprehensive, population-based, longitudinal datasets for child health research in Florida. ICHP member Mildred Maldonado-Molina, Ph.D., directs the Family Data Center, an interdisciplinary group of faculty and staff who engage in risk assessment, outcomes research, program evaluation, fiscal impact studies, cost-benefit analyses, and information management at the national and state level. Staff work collaboratively on projects with Florida’s Departments of Health, Education, Children and Families, and the state’s Agency for Health Care Administration. Research focuses on risk factors associated with teenage pregnancy, low birth weight, birth defects, infant mortality, developmental delay and disability, infant maltreatment, preschool special education, and kindergarten costs. Center-affiliated faculty have also contributed to the methodology of longitudinal research through the application of standardized risk and value-added assessment models.

Built a nationally recognized research program focused on examining quality and outcomes of care for children. In 2016, ICHP became one of six sites funded through the AHRQ and Centers for Medicare and Medicaid Services’ Pediatric Quality Measurement Program (PQMP). Using big data analytics and other innovative methodologies, ICHP faculty are examining factors influencing the quality of care children receive when taking antipsychotics and also oral health care for children. ICHP’s collaborators in the Children’s Health Quality (CHeQ) Partnership include AHRQ, CMS, the Texas Health and Human Services Commission, the Florida Agency for Health Care Administration, the OneFlorida Clinical Research Consortium, PCORI, and the national PEDSnet CRN.

Developed a multidisciplinary affiliate program at UF. In addition to building state and national networks of child health collaborators, ICHP has a 25-year history of collaborating with teams of researchers across the UF campus. As noted earlier, ICHP’s affiliate faculty program has representation from the College of Education, the College of Liberal Arts and Sciences, and the College of Engineering. ICHP represents child health interests within the CTSI and the OneFlorida Clinical Research Consortium, both within the University and nationally. (For a complete list of ICHP affiliate members, see Table 2 in the Appendix.)

Led state and national research collaborations. In addition to establishing the OneFlorida Clinical Research Consortium (described earlier), ICHP represents UF in the current CHAMP (Child Health Research Acceleration through Multi-site Planning) studies. The CHAMP program has begun a national effort to secure ongoing CTSA funding for child health-related multidisciplinary studies. Dr. Thompson and Gurka lead the research that includes five other CTSAs in an effort to understand and implement screening for adverse childhood experiences in the primary care setting. Using methods of implementation science, they are leading a national effort toward bringing these social adversities into the medical home to follow prospectively.

2. Conducting novel clinical trials and precision population health initiatives to address today’s complex child health issues and health disparities.

Not only does ICHP’s research portfolio align with UF’s goal to “improve the lives of the world’s citizens,” but it also encompasses funding aims of the NIH Strategic Plan, which focus on behavioral health interventions and the examination of health within a nexus of complex
societal, medical and economic factors. Our research teams’ methods are transferrable to multiple arenas of inquiry, including childhood obesity, tobacco use, adverse childhood events (ACEs), palliative care, oral health, immunization rates, and neonatal outcomes. ICHP’s broad scope of research initiatives positions it as a key partner in advancing treatments and interventions for a range of chronic childhood conditions, such as obesity. Child obesity research by ICHP investigators include NIH-funded studies that aim to:

- Explore the relationships between perceived social status, family income, food insecurity, weight and health outcomes among low-income Hispanic teens enrolled in a family-based weight management program.
- Develop a weight loss intervention for teens using an evidence-based approach for adults that teaches impulse control, an essential skill for adhering to a healthy diet and regular physical activity.
- Identify the mechanisms in breast milk that protect against child obesity by characterizing human milk interactions with the intestinal microbiome in exclusively breastfed infants during the first year of life.

ICHP researchers have also developed methodologies and programs for conducting research across the lifespan. Researchers are just beginning to appreciate and incorporate how exposure to physical or social stressors in-utero and during the early years of a person’s life can influence health risks in adulthood. This interdisciplinary approach, called “lifespan” or “life course” research, takes into account biological, behavioral and psychosocial processes that operate across an individual’s life course—and even across generations. With funding from the NIH, ICHP biostatistician Keith Muller, Ph.D., along with University of Colorado School of Medicine colleagues Deborah Glueck, Ph.D., and Dana Dabelea M.D., Ph.D., are developing new methods and software that use trajectories of risk factors from early in life to predict disease outcomes later in life, such as obesity, cardiovascular disease, stroke, diabetes and cancer. Free, open source software for sample size calculations and related tutorials are available at www.SampleSizeShop.org. These new methods and software also have applicability in the design of complex clustered, longitudinal clinical trials.

3. Translating findings into clinical practice using implementation science strategies.

Implementation science involves the study of methods to promote the successful integration of research findings and evidence into health care policy and practice. ICHP researchers have already established research programs to integrate these strategies into practice. For example, Dr. Stephanie Staras has served as principal investigator on seven implementation research grants (including two NIH grants) for a total of nearly $750,000. A main focus of Dr. Staras’ work is reducing HPV-related cancer cases and associated disparities. She has a nine-year continually funded research program of increasing HPV vaccination among Florida adolescent girls and boys. Dr. Staras’ work highlights the strong association between HPV vaccine initiation and parents’ beliefs about the HPV vaccine’s ability to prevent cancer safely. Additionally, she led one of a handful of studies to assess a direct link between provider recommendations and parent beliefs. By simultaneously targeting parents with reminders and providers with an in-clinic, parent-tailored decision aid, Dr. Staras’ real-world, multi-level implementation trial demonstrated a synergistic increase of HPV vaccine initiation among girls. To target interventions in geographic areas of the greatest need, Dr. Staras is characterizing HPV-related disease burden in the University of Florida Cancer Catchment Area by triangulating data with an environmental scan that includes vaccination records, stakeholder interviews, and a provider-discrete choice experiment. Dr. Staras also
contributes her implementation science expertise to research grants on meningococcal B vaccination, smoking cessation, and health screenings for dental patients.

In addition to Dr. Staras’ research, Dr. Ramzi Salloum has been working on a pilot study focused on increasing the uptake of evidence-based best practices around adolescent health-risk assessments and tobacco/nicotine product screening and cessation for children and youth and childhood cancer survivors in primary care settings using the Epic patient portal. Dr. Salloum works in collaboration with the UF CTSI and the UF Department of Pediatrics, and with funding from the NIH and the James and Esther King Biomedical Research Foundation.

4. **Disseminating findings and information to other researchers and the public.**

ICHP is committed to sharing research findings with other collaborators and to disseminating research results and other information to the public.

**Campus events.** ICHP shares results with other child-health collaborators through campus-wide networking opportunities for researchers, including informal networking events and ICHP’s Annual Research Day. ICHP Research Day features a nationally recognized keynote speaker, reception and poster session for faculty, medical residents and graduate students interested in child health research. In 2019, ICHP began collaborating with the Department of Pediatrics to host the event in conjunction with Pediatric Grand Rounds. The 2019 event attracted approximately 75 child health researchers and included 30 poster presentations.

Keynote speakers for the past three ICHP Research Day events included Sarah Scholle, Dr.P.H., MPH, Vice President of Research and Analysis at the National Committee for Quality Assurance (NCQA) in Washington, D.C.; Peter Margolis, M.D., Ph.D., professor of pediatrics and co-director of the James M. Anderson Center for Health Systems Excellence at the Cincinnati Children’s Hospital Medical Center, who also chairs the PCORnet Steering Committee for PCORI in Washington, D.C.; and Gary Freed, M.D., MPH, Percy and Mary Murphy Professor of Pediatrics at the University of Michigan School of Medicine.

**Research huddles.** Drs. Thompson and Gurka host informal research “Huddles” every other month in the Department of Pediatrics. Discussions focus on research methodology and best practices to stimulate more and higher quality research.

**Websites and other communications tools.** ICHP maintains an active website ([http://ichp.ufl.edu/](http://ichp.ufl.edu/)) that is regularly updated with news, events and research findings translated into understandable terms for lay readers. ICHP also publishes an annual progress report, which provides an overview of ICHP’s mission, vision, research, funding awards and membership program. Our monthly *ICHP in a Minute* e-newsletter, sent to affiliate members and hundreds of UF Health faculty and staff, includes child health news, events, and funding opportunities for researchers.

5. **Providing advanced training and mentoring programs.**

In addition to faculty mentoring associated with the two NIH K awards, ICHP offers a variety of opportunities for advanced training and mentoring:

- **Maintenance-of-Certificate (MOC) Program.** ICHP serves as the university coordinator for a multidisciplinary clinician MOC program. The program allows health care organizations to recognize and translate work already being done by clinicians into tangible credit toward their MOC Part IV requirements. One such project, a tobacco prevention study led by Dr. Salloum, aimed to improve the capacity of pediatric clinics to screen and counsel their adolescent patients on tobacco use with electronic screening, electronic health records and patient portals. Clinical practice facilitators also trained
providers and office staff on the implementation of best practices using evidence-based tobacco prevention strategies. To earn MOC credit, physicians participating in the study documented whether they asked and advised adolescent patients about tobacco use during well-child visits. Physicians who complete the program earn 25 points of MOC Part IV credit critical to ongoing board licensure.

- **Member training in implementation science.** In 2018, Drs. Salloum and Staras completed the National Cancer Institute's Mentored Training for Dissemination and Implementation Research program at Washington University in St. Louis. The national program trains researchers in methodologies for conducting dissemination and implementation (D&I) research, which aims to shorten the time it takes for research findings to be incorporated into cancer treatments and cancer prevention interventions. The two-year fellowship provided fellows with expert mentoring and a summer training program that addressed the skills necessary to develop high-quality D&I research and to accelerate the translation of cancer prevention and control knowledge into practice and policy. According to the NCI, this process can take between 10 and 20 years using traditional research methods. Dr. Cardel completed a similar training through the University of California San Francisco's Research in Implementation Science for Equity (RISE) program, sponsored by the National Heart, Lung, and Blood Institute.

- **Student mentoring.** To encourage student participation in its annual Research Day event, ICHP offers three $500 professional development awards for the best student presentations. ICHP faculty members also regularly mentor graduate students in the College of Medicine’s summer Medical Student Research Program (five students in 2016 and two in 2017). The program allows first-year medical students to conduct a 10-week research project while receiving academic course credit. Participating students also receive a scholarship of approximately $2,000 to help them during the course of the program. In 2016, 2017 and 2018, ICHP faculty members Cardel, Lemas and Salloum mentored a total of six undergraduate students in several entry-level research programs offered at UF, including the Emerging Scholars Program, the University Scholars Program, and the Ronald E. McNair Post-Baccalaureate Achievement Program.

- **Training for science teachers.** Four ICHP faculty members—Drs. Shenkman, Salloum, Staras and Szurek—also participated in the 2018 “Cancer Research Conference for Science Teachers” sponsored by the UF Health Cancer Center. The free, two-day event brought together science teachers and cancer community educators from Florida communities to learn about cutting-edge research taking place at UF and to give the scientific community at UF the opportunity to engage with community educators.
Plans for the Next 5 Years

ICHP’s 5-year Strategic Plan (2017-2022) incorporates the following goals, strategies and tactics for the next 5 years:

1. Generate new knowledge and evidence-based interventions to improve the health care and health outcomes of children and youth by providing a data rich infrastructure for pragmatic clinical trials, comparative effectiveness research and implementation science studies.

The ICHP research portfolio has a thematic focus on generating new knowledge related to preventing or reducing risks in childhood that can lead to chronic health conditions in adulthood. Key risk categories include a focus on better assessing health risks in primary care settings, including (a) assessing and making referrals for care related to adverse childhood experiences, (b) preventing cancer through improved uptake of evidence-based best practices related to the HPV vaccine and tobacco product use, and (c) preventing or reducing childhood obesity, which is linked to a range of chronic conditions including cardiovascular disease, cancer, and diabetes.

Additionally, there is a thematic focus on implementation and improvement science. Implementation science focuses on the development of new knowledge to improve the uptake of singular and combinations of evidence-based best practices to improve health and health care. Improvement science focuses on the development and implementation of strategies to improve the quality of health care that children receive. Both implementation and improvement science are cross-cutting themes with the ICHP focus on prevention science.

Cross-cutting themes also include the use of advanced methodologies in the areas of biomedical informatics, pragmatic clinical trials and comparative-effectiveness research to improve the quality and outcomes of care for children. Moreover, we have a cross-cutting theme related to reducing health disparities and enhancing health equity for children. The ICHP portfolio emphasizes generating new knowledge to improve the health outcomes of children who are low-income, reside in rural and other medically underserved areas, face adverse childhood experiences, have special health care needs, and are from underrepresented minority groups.

- **Strategy 1**: Expand current funding portfolio in the areas of prevention, implementation and improvement science with a continued emphasis on federal funders, particularly NIH and NCI.
  - **Tactic 1**: Provide pilot funding to support novel transdisciplinary collaborations in ICHP’s key thematic areas of science.
  - **Tactic 2**: Support early-stage investigators to obtain K awards within the thematic areas and facilitate the transition to R awards through mentoring and pilot funds for those with existing K awards.
  - **Tactic 3**: Develop a strategic plan focused on ICHP themes to seek larger funding awards from federal and foundation partners.
  - **Tactic 4**: Re-establish the ICHP external advisory committee. This committee has not been active for the past 4 years. Rather, we relied on nationally known child health experts (listed above) who provided seminars and consultations. In
2019 we plan to re-establish our external advisory committee to provide input into our strategic planning and feedback about our accomplishments.

- **Strategy 2:** Promote the expansion of child health research.
  - **Tactic 1:** Provide leadership nationally through AHRQ, NIH and PCORnet in setting a child health research agenda and promote opportunities and funding for child-focused research.

2. **Catalyze child health research at UF, nationally and internationally.**

Building upon the past 15 years of developing innovative methods for using big data in examining child health outcomes, ICHP will continue its strategic leadership role in the development of pediatric components of the OneFlorida Data Trust. ICHP is also well positioned to facilitate UF and statewide researchers in obtaining funding through NIH, AHRQ and PCORI.

- **Strategy 1:** Serve as a hub for research around NIH, AHRQ, and state/federal pediatric research initiatives.
  - **Tactic 1:** Continue to lead the development of child-focused data elements in the OneFlorida Data Trust to conduct pediatric pragmatic clinical trials and implementation science studies. Potential data elements include developmental screening measures, genetic testing results, and adverse childhood experiences data.  
  - **Tactic 2:** Identify opportunities to expand data linkages through expanded partnerships with payers as well as state agencies (e.g., vital statistics data).  
  - **Tactic 3:** Expand relationships with UF Health to develop child health projects that foster the learning health care system and improvement science.  
  - **Tactic 4:** Expand upon the Family Data Center’s capacity with its linked birth certificate and other health outcome data to form longitudinal cohorts to examine health outcomes.

3. **Foster the development of careers focused on child health care delivery and outcomes research.**

- **Strategy 1:** Identify training grant opportunities in the area of children’s health and/or lifespan research.
- **Strategy 2:** Develop a post-doctoral fellowship in child health research.
- **Strategy 3:** Provide mentoring for early stage investigators through child-focused seminar series, grant development workshops, and individual mentoring.

4. **Foster public and stakeholder engagement in child health research throughout Florida and nationally.**

- **Strategy 1:** Continue to maintain and foster relationships with stakeholders in Florida and nationally related to study topic identification, study implementation and information dissemination.
• **Strategy 2.** Develop novel child health data visualization tools building from work already conducted within the Family Data Center and other initiatives to engage clinicians, payers, policymakers and families around key issues affecting children’s health.
## Appendix: ICHP Affiliate Members

### Table 2. ICHP Affiliate Members

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Affiliation</th>
<th>Expertise</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jiang Bian, Ph.D.</td>
<td>Assistant Professor</td>
<td>Department of Health Outcomes and Biomedical Informatics, UF College of Medicine</td>
<td>Data-linking, biomedical informatics, eHealth, social media, semantic web/ontology, data privacy in health care, cancer informatics</td>
</tr>
<tr>
<td>Michelle Cardel, Ph.D., R.D., M.S.</td>
<td>Assistant Professor</td>
<td>Department of Health Outcomes and Biomedical Informatics, UF College of Medicine</td>
<td>Obesity, nutrition, social determinants of health research, factors influencing obesity, pediatric obesity prevention and treatment, health disparities</td>
</tr>
<tr>
<td>Maureen Conroy, Ph.D., R.D.</td>
<td>Professor</td>
<td>Co-director, Anita Zucker Center for Excellence in Early Childhood Studies, Professor, School of Special Education, School Psychology, and Early Childhood Studies, UF College of Education</td>
<td>Childhood studies; early intervention; social, emotional and behavioral foundations of early learning; prevention science</td>
</tr>
<tr>
<td>Chris Delcher, Ph.D.</td>
<td>Assistant Professor</td>
<td>Department of Pharmacy Practice and Science, Associate Director, Institute for Pharmaceutical Outcomes and Policy (IPOP), University of Kentucky, College of Pharmacy, Lexington, KY</td>
<td>Epidemiology of prescription drug use; surveillance system implementation and evaluation in high- and low-resource environments</td>
</tr>
<tr>
<td>Abigail Fagan, Ph.D.</td>
<td>Associate Professor of Criminology &amp; Law</td>
<td>Department of Sociology and Criminology &amp; Law, UF College of Liberal Arts and Sciences</td>
<td>Health outcomes research, health-related quality-of-life (HRQOL) measurement, Item Response Theory (IRT), patient-centered outcomes research, provider profiling, risk adjustment</td>
</tr>
<tr>
<td>Chris Gibson, Ph.D.</td>
<td>Associate Professor of Criminology &amp; Law</td>
<td>Department of Sociology and Criminology &amp; Law, UF College of Liberal Arts and Sciences</td>
<td>Clinical interventions that promote the health of vulnerable populations</td>
</tr>
<tr>
<td>Yi Guo, Ph.D.</td>
<td>Assistant Professor</td>
<td>Department of Health Outcomes and Biomedical</td>
<td>Biostatistics, health outcomes measurement and evaluation,</td>
</tr>
<tr>
<td>Name</td>
<td>Title/Position</td>
<td>Department/Institute</td>
<td>Research Areas</td>
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<tr>
<td>Matthew J. Gurka, Ph.D.</td>
<td>Professor and Associate Chair</td>
<td>Department of Health Outcomes and Biomedical Informatics, UF College of Medicine</td>
<td>Biostatistics, longitudinal research design and data analysis, pediatric research, metabolic syndrome</td>
</tr>
<tr>
<td>Julia Graber, Ph.D.</td>
<td>Professor</td>
<td>Department of Psychology, UF College of Liberal Arts and Sciences</td>
<td>Development of psychopathology, health-compromising and health-promoting behaviors in adolescents</td>
</tr>
<tr>
<td>Jaclyn Hall, Ph.D.</td>
<td>Assistant Research Scientist</td>
<td>Department of Health Outcomes and Biomedical Informatics, UF College of Medicine</td>
<td>Geography, spatial analysis, remote sensing, geographic information systems, health and medical geography</td>
</tr>
<tr>
<td>Amanda Hicks, Ph.D.</td>
<td>Assistant Professor</td>
<td>Department of Health Outcomes and Biomedical Informatics, UF College of Medicine</td>
<td>Biomedical informatics, applied ontology, wordnets, gender identity terms as related to LGBT health and medical terminologies, applied logic, adolescent health</td>
</tr>
<tr>
<td>William Hogan, M.D., M.S.</td>
<td>Professor of Biomedical Informatics</td>
<td>Department of Health Outcomes and Biomedical Informatics, UF College of Medicine</td>
<td>Clinical informatics, public health informatics, biosurveillance, electronic health records, clinical decision support, research informatics, data standards in clinical, research and public health information systems</td>
</tr>
<tr>
<td>Herman Knopf, Ph.D.</td>
<td>Research Scientist</td>
<td>Anita Zucker Center for Excellence in Early Childhood Studies, UF College of Education</td>
<td>Early childhood policy and practices to support positive outcomes, child care accessibility, early childhood workforce professional development, use of administrative data</td>
</tr>
<tr>
<td>Dominick Lemas, Ph.D.</td>
<td>Assistant Professor</td>
<td>Department of Health Outcomes and Biomedical Informatics, UF College of Medicine</td>
<td>Pediatric obesity, child-maternal health, molecular epidemiology, computational biology, bioinformatics, metagenomics</td>
</tr>
<tr>
<td>Name</td>
<td>Title</td>
<td>Department</td>
<td>Research Area</td>
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</tr>
<tr>
<td>Mildred Maldonado-Molina, Ph.D.</td>
<td>Associate Professor</td>
<td>Department of Health Outcomes and Biomedical Informatics, UF College of Medicine; Director, UF Family Data Center</td>
<td>Research design &amp; methods, addiction research, health disparities in alcohol use and alcohol-related consequences, health of minority children and adolescents</td>
</tr>
<tr>
<td>Lisa J. Merlo, Ph.D., MPE</td>
<td>Assistant Professor</td>
<td>Department of Psychiatry, UF College of Medicine</td>
<td>Psychosocial factors related to addiction, child and pediatric psychology, drug abuse epidemiology and prevention</td>
</tr>
<tr>
<td>Heather Morris, Ph.D.</td>
<td>Assistant Research Scientist</td>
<td>Department of Health Outcomes and Biomedical Informatics, UF College of Medicine</td>
<td>Survey design and analysis, adolescents, patients with chronic illnesses, health outcomes for patients with Type 2 diabetes</td>
</tr>
<tr>
<td>Keith Muller, Ph.D.</td>
<td>Professor</td>
<td>Department of Health Outcomes and Biomedical Informatics, UF College of Medicine</td>
<td>Biostatistics, health outcomes research, statistical methods</td>
</tr>
<tr>
<td>Deepa Ranka, M.S.</td>
<td>Lecturer</td>
<td>Department of Health Outcomes and Biomedical Informatics, UF College of Medicine</td>
<td>Data analytics, database design, data management and capture, data quality assessment and control</td>
</tr>
<tr>
<td>Sanjay Ranka, Ph.D.</td>
<td>Professor</td>
<td>Department of Computer and Information Science and Engineering, UF College of Engineering</td>
<td>Data mining, informatics and grid computing for data-intensive applications in high-energy physics, biomedical computing</td>
</tr>
<tr>
<td>Sonja Rasmussen, M.D., M.S.</td>
<td>Professor</td>
<td>Department of Pediatrics and Department of Epidemiology, UF College of Medicine</td>
<td>Adverse pregnancy outcomes, clinical genetics, morbidity and mortality related to genetic conditions, effects of medications and infections during pregnancy</td>
</tr>
<tr>
<td>Ramzi Salloum, Ph.D.</td>
<td>Assistant Professor</td>
<td>Department of Health Outcomes and Biomedical Informatics, UF College of Medicine</td>
<td>Tobacco control, health preference measurement, implementation science, health economics, cancer control and prevention</td>
</tr>
<tr>
<td>Elizabeth A. Shenkman, Ph.D.</td>
<td>Professor and Chair</td>
<td>Department of Health Outcomes and Biomedical Informatics, UF College of Medicine; Director, Institute for Child Health Policy; Associate Director, Cancer Population</td>
<td>Implementation science, cancer prevention, health care delivery research, data science</td>
</tr>
<tr>
<td>Name</td>
<td>Title</td>
<td>Department/Office</td>
<td>Research Areas</td>
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</tr>
<tr>
<td>Natalie Schiff, M.D., MHSc</td>
<td>Associate Professor</td>
<td>Department of Pediatrics, Division of Pediatric Allergy, Immunology and Rheumatology, UF College of Medicine</td>
<td>Clinical epidemiology of pediatric rheumatic diseases, health services and outcomes research</td>
</tr>
<tr>
<td>Patricia Snyder, Ph.D.</td>
<td>Director</td>
<td>Anita Zucker Center for Excellence in Early Childhood Studies, UF College of Education; Endowed Chair in Early Childhood Studies, Professor in School of Special Education, School Psychology, and Early Childhood Studies, UF College of Education</td>
<td>Developing, validating and evaluating interventions for youth with or at risk for disabilities or social and behavioral challenges, quality of early intervention and early learning</td>
</tr>
<tr>
<td>Joni Splett, Ph.D.</td>
<td>Assistant Professor</td>
<td>School of Special Education, School Psychology, and Early Childhood Studies, UF College of Education</td>
<td>Prevention and intervention of youth emotional and behavioral concerns in schools, universal mental health screening, youth mental health service utilization trends</td>
</tr>
<tr>
<td>Stephanie Staras, Ph.D.</td>
<td>Associate Professor</td>
<td>Department of Health Outcomes and Biomedical Informatics, UF College of Medicine</td>
<td>HPV vaccine implementation, sexually transmitted infections, racial/ethnic disparities</td>
</tr>
<tr>
<td>Sarah Szurek, Ph.D.</td>
<td>Assistant Research Scientist</td>
<td>Department of Health Outcomes and Biomedical Informatics, UF College of Medicine; Program Director, Office of Community Outreach and Engagement, UF Health Cancer Center</td>
<td>Social and cultural factors that influence health outcomes in vulnerable populations, health in community settings</td>
</tr>
<tr>
<td>Ryan Theis, Ph.D., MPH</td>
<td>Assistant Professor</td>
<td>Department of Health Outcomes and Biomedical Informatics, UF College of Medicine</td>
<td>Health services quality, long-term care, program evaluation, qualitative/ethnographic methods, cultural domain analysis, survey design analysis</td>
</tr>
<tr>
<td>Lindsay Thompson, M.D., M.S.</td>
<td>Associate Professor</td>
<td>Department of Pediatrics and Department of Health Outcomes and Biomedical Informatics, UF College of Medicine; Assistant Director of Clinical Research, Institute for Child Health Policy</td>
<td>Social media and health, professionalism, assessments of children with special health care needs, neonatal outcomes, palliative care services</td>
</tr>
<tr>
<td>Name</td>
<td>Department</td>
<td>College</td>
<td>Affiliations</td>
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<tr>
<td>Bruce Vogel, Ph.D.</td>
<td>Department of Health Outcomes and Biomedical Informatics, UF College of Medicine</td>
<td></td>
<td>Health care costs, rehabilitation outcomes, program evaluation, applied statistical methods in health services research</td>
</tr>
<tr>
<td>Daisy Zhe Wang, Ph.D.</td>
<td>Department of Computer and Information Science and Engineering; College of Engineering; Director, UF Data Science Research Laboratory</td>
<td></td>
<td>Database, data science, informatics</td>
</tr>
<tr>
<td>Yonghui Wu, Ph.D.</td>
<td>Department of Health Outcomes and Biomedical Informatics, UF College of Medicine</td>
<td></td>
<td>Clinical natural language processing, machine learning, pharmacovigilance</td>
</tr>
<tr>
<td>Alyson Young, Ph.D.</td>
<td>Department of Health Outcomes and Biomedical Informatics, UF College of Medicine</td>
<td></td>
<td>Maternal and child health and postpartum care, environmental health disparities, food and nutrition security, mixed-methods research, social inequality and access to health care and services</td>
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Table 3. ICHP Student Affiliates
<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>College</th>
</tr>
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<tbody>
<tr>
<td>Serena Martin</td>
<td>Department of Pediatrics</td>
<td>UF College of Medicine</td>
</tr>
<tr>
<td>Juhan Lee</td>
<td>Department of Health Education and Behavior</td>
<td>UF College of Health &amp; Human Performance</td>
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