Institute for Clinical and Translational Science (ICTS)

- Founded in 2007
- One of 62 leading biomedical funded through the NIH Clinical & Translational Award (CTSA) Program
- Integrated home for clinical and translational science at the University of Iowa
ICTS Goals

- Provide a wide range of resources and services to support the conduct of clinical and translational research and eliminate intra-institutional silos
- Decrease administrative and regulatory barriers to conducting translational research
- Train outstanding scholars from diverse disciplines and support their career development
- Build bidirectional relationships with community organizations, providers, and other stakeholders to facilitate research that improves community health
ICTS Goals (cont.)

- Incubate trans-disciplinary collaborations & high impact research across T1 – T4 translational science spectrum

<table>
<thead>
<tr>
<th>T1</th>
<th>T2</th>
<th>T3</th>
<th>T4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Translation to Humans</td>
<td>Translation to Patients</td>
<td>Translation to Practice</td>
<td>Translation to Populations</td>
</tr>
<tr>
<td>Animal models of human disease</td>
<td>Phase 2 &amp; 3 clinical trials</td>
<td>Phase 4 clinical trials</td>
<td>Health policy analyses</td>
</tr>
<tr>
<td>Phase 1 clinical trials</td>
<td>Uncontrolled observational studies</td>
<td>Comparative effectiveness studies</td>
<td>Social determinants of health</td>
</tr>
</tbody>
</table>
ICTS Resource Cores and Programs

- Clinical Trials → Clinical Research Unit, Study Coordinators, Subject recruitment
- Biomedical Informatics → Integrated clinical data warehouses, tools (e.g., research PHR, online consent)
- Biostatistics and Study Design
- Pilot Grants → Interdisciplinary, higher risk studies
- Oral Health
- Community-Based Research Core
- Child Health Research Core
Community-Based Research Core: Key Services

- “Match-making” of researchers with Practice Based Research Networks (PBRNS) and community networks
  - IRENE Family Practice Network
  - UI Health Alliance
  - Federally Qualified Health Centers
  - Critical Access Hospitals
  - School Nurses

- Technical assistance and education for researchers on community engaged research

- Training for community members on engaging in research
# Community-Based Research Grants: 2008-15

<table>
<thead>
<tr>
<th>Grant Title (PI)</th>
<th>Funding Agency</th>
<th>Amount (Period)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parent-Based Interventions to Support Children After Traumatic Injury (Ramirez)</td>
<td>PCORI</td>
<td>$1,751,367 (1/14–12/16)</td>
</tr>
<tr>
<td>Improved Cardiovascular Risk Reduction to Enhance Rural Primary Care (Carter)</td>
<td>NHLBI</td>
<td>$3,601,876 (8/13–7/18)</td>
</tr>
<tr>
<td>Advancing Dementia Care for Rural &amp; Hispanic Patients (Carnahan)</td>
<td>PCORI</td>
<td>$1,626,680 (5/13–4/16)</td>
</tr>
<tr>
<td>Meta-Network Learning and Research Center &quot;Meta-LARC&quot; (B. Levy)</td>
<td>AHRQ</td>
<td>$45,500 (7/12–6/17)</td>
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<tr>
<td>Improving Transitional Care of Rural Patients (Rosenthal, Cram, &amp; Turvey)</td>
<td>CMS</td>
<td>$7,020,978 (7/12–6/15)</td>
</tr>
<tr>
<td>Expanding the Medical Home by Mental Health Collaboration (Bergus &amp; Thoma)</td>
<td>HRSA</td>
<td>$1,186,044 (9/11–9/16)</td>
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<tr>
<td>Predicting Caries Risk in Underserved Toddlers (S. Levy)</td>
<td>NIH</td>
<td>$641,300 (9/11–7/16)</td>
</tr>
<tr>
<td>Coordinating Adolescent Emotional Health by Child Health Teams (Waldron)</td>
<td>HRSA</td>
<td>$259,450 (9/11–8/14)</td>
</tr>
<tr>
<td>Combining Disease Management and Psychotherapy (Turvey)</td>
<td>NIMH</td>
<td>$2,843,093 (2/11–12/15)</td>
</tr>
<tr>
<td>Improving Nutrition for FQHC Patients with Diabetes (Engbrecht)</td>
<td>Mid-Iowa Health Foundation</td>
<td>$150,000 (12/10–12/15)</td>
</tr>
<tr>
<td>Improving Diabetes Self-Management in FQHCs (Wallace)</td>
<td>Robert Wood Johnson Found</td>
<td>$350,000 (9/10–8/13)</td>
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<tr>
<td>Improving Antipsychotic Use in Rural Nursing Homes (Carnahan)</td>
<td>AHRQ</td>
<td>$2,294,123 (9/10–9/13)</td>
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<tr>
<td>Enhancing Community-Based Cancer Control in Iowa (B. Levy)</td>
<td>ARRA NIH NCI</td>
<td>$1,000,000 (8/10–9/13)</td>
</tr>
<tr>
<td>VA Patient Aligned Care Team Laboratory (Rosenthal)</td>
<td>Office of Patient Care Srvs</td>
<td>$7,500,000 (6/10–5/15)</td>
</tr>
<tr>
<td>Prevention Research Center in Rural Health (Parker)</td>
<td>CDC</td>
<td>$3,534,523 (3/10–2/15)</td>
</tr>
<tr>
<td>Building Research Capacity for Quality Improvement (Neale)</td>
<td>AHRQ</td>
<td>$890,468 (1/10–9/10)</td>
</tr>
<tr>
<td>A Collaborative Model to Improve BP Control and Minimize Disparities (Carter)</td>
<td>NHLBI</td>
<td>$4,714,840 (4/09–2/15)</td>
</tr>
<tr>
<td>Midwest Rural Health Research Center (Kaboli)</td>
<td>VA Office of Rural Health</td>
<td>$14,000,000 (10/08–9/15)</td>
</tr>
<tr>
<td>Child Obesity Prevention: Improving Nutrition at School Sporting Events (Laroche)</td>
<td>Wellmark Foundation</td>
<td>$82,278 (7/08–7/13)</td>
</tr>
<tr>
<td>Improving Colon Cancer Screening in Poor, Rural Counties (B. Levy)</td>
<td>American Cancer Society</td>
<td>$1,635,000 (7/08–1/13)</td>
</tr>
<tr>
<td>Management of Infections in Primary Care (B. Levy &amp; Daly)</td>
<td>AHRQ</td>
<td>$415,150 (1/08–1/12)</td>
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</tbody>
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**Total** $56,183,970
Child Health Research Core: Goals

1. Improve child health and wellness by:
   - Facilitating & encouraging evidence-based research
   - Integrating research into UI & community child health care systems
   - Translating & disseminating cost effective therapies

2. Provide investigators at the UI and across Iowa with the infrastructure needed to support T1 to T4 child health research that encompasses the continuum of the “Life Course Perspective.”
Child Health Research Core: 
Key Resources and Activities

- Research Navigator Support
  - IRB applications and budget development
  - Project database creation (RedCap)
  - Subject recruitment and data collection

- Coordinator Support for inpatient & outpatient studies
  - NICHD NRN RCTs & NHLBI PPG inpatient studies (Pediatrics)
  - NIAID VTEU outpatient trials (Internal Medicine)
  - Burn inpatient study (Surgery)
  - 24/7 availability

- Organization of interdisciplinary research workshops
  (e.g., Mental health, School nurses)

ICTS | Institute for Clinical & Translational Science
AT THE UNIVERSITY OF IOWA
Examples of Interactions

College of Medicine, Dept of Pediatrics
- Midwest regional family-partnered cystic fibrosis pragmatic trials

College of Dentistry
- Pediatric Dentistry
- Improve dental care for children: caries & operative procedures

College of Nursing
- Research Workshop for School Nurses

College of Public Health, Dept of Epidemiology
- Adverse Childhood Events (ACEs) & Community Research Partnership (CROP) + Partnerships with ISU, IA DPH

College of Liberal Arts, Department of Psychology
- Delta Center: Impacting early childhood health, education & policy

ICTS Institute for Clinical & Translational Science
AT THE UNIVERSITY OF IOWA
Boots on the Ground & Telehealth in Iowa

- 87 Perinatal Satellite Delivery Hospitals
- 47 UI Children’s Hospital Subspecialty Satellite Clinics
- 7 Pediatric Dentistry Satellite Clinics
How Can the ICTS Help Advance an Effective Agenda in ACEs in Iowa?

1. Better define the impact of individual ACEs and the mediating factors by which ACEs affect health
   - Support analytical efforts (e.g., dissecting complex cause and effect relationships)
   - Support future surveys to provide more granular data

2. Help in prioritizing a statewide research agenda for ACEs detection, prevention, & amelioration of the effects of ACEs that have already occurred
   - Support efforts to bring key stakeholders together
   - Formal synthesis of focus group discussions
How Can the ICTS Help Advance an Effective Agenda in ACEs in Iowa?

3. Identify and mobilize other resources and programs at the University of Iowa
   - Injury Prevention Research Center Support, Delta Center for Child Development, Prevention Intervention Center

4. Identify and mobilize community-based practice networks for testing and implementing interventions

5. Identify investigators to work with ACEs leaders to develop new proposals for external funding to federal and state agencies and private foundations and support the development of proposals