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In 2020, our mission to disseminate outcomes specific to Tabula Rasa HealthCare (TRHC) solutions led to an impressive volume of publications. Our researchers published 47 papers in renowned journals, including the *Journal of Alzheimer's Disease*, *Cancer Letters*, *Clinical Pharmacology & Therapeutics*, *Pharmaceutics*, *Journal of Clinical Medicine*, and *Clinical and Translational Science*. The Research & Development Pillar members were cited 353 times in the areas of pharmacogenomics, medication risk scores, and medication safety.

Our national team gained stakeholder knowledge as they served in more than 33 leadership roles in professional organizations. They contributed to the research community by actively participating as peer reviewers with over 30 leading journals. In addition, their continued efforts towards dissemination of research in professional arenas led to 15 poster exhibits and an additional 28 live scholarly presentations.

Congratulations to our valued members of TRHC’s Research & Development Pillar who received more than 16 professional awards last year! We look forward to strengthening our presence as a leading provider of high-quality research in healthcare through 2021 and beyond.

**Dr. Jacques Turgeon**  
*Chief Scientific Officer*  
Tabula Rasa HealthCare
Research Strategy Committee

Veronique Michaud, BPharm, PhD, is Chief Operating Officer of TRHC’s Precision Pharmacotherapy Research & Development Institute in Orlando. She is an adjunct professor, Faculty of Pharmacy at the Université de Montréal and has directed a pharmacokinetic and bioanalytic core facility at the University of Montréal Hospital Research Center. Her research investigates the contribution of CYP450 drug-metabolizing enzymes in drug disposition, with a special attention to the role of disease states, focusing on type 2 diabetes. She has earned more than $22 million in research awards, published more than 54 peer-reviewed journal articles, and mentored graduate students and PharmD residents. Dr. Michaud completed fellowships at Indiana University in Indianapolis and McGill University in Montréal, and earned her PhD and MSc degrees from the Université de Montréal in Canada.

Sandra Leal, PharmD, MPH, FAPhA, CDCES, serves as Executive Vice President for Professional Advocacy at TRHC and is President of the American Pharmacists Association (APhA). She has published and presented her work in numerous national and international publications and venues, including Japan, Peru, and Saudi Arabia. She has been recognized as the Good Government Pharmacist-of-the-Year by the APhA for her advocacy work on pharmacist provider status. Dr. Leal received two Pinnacle Awards from the APhA Foundation for her progressive practice innovations and received the ASHP Best Practices Award for leading practices in diabetes management.

Jenny Bingham, PharmD, BCACP, CMWA, is President of TRHC’s Research Strategy Committee. She promotes excellence and company growth through oversight of research from project conceptualization to outcomes dissemination. Dr. Bingham is passionate about advancing the role of pharmacists in the telehealth setting and was recognized as the Next-Generation Pharmacist® Technology Innovator of the Year and was the recipient of the Jack R. Cole, PhD, Distinguished Alumnus Award from the University of Arizona College of Pharmacy.

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Research Strategy Committee

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Milap Nahata, PharmD, MS, is the Founding Director of the Institute of Therapeutic Innovations and Outcomes and Professor Emeritus of Pharmacy, Internal Medicine, and Pediatrics at the Ohio State University. He teaches courses on pharmacotherapy and leadership and oversees a telephonic medication management program to serve older adults. Dr. Nahata has published over 600 journal articles and book chapters, as well as several books. He has received lifetime achievement awards, distinguished educator awards, and research achievement awards from multiple national organizations. He is an elected member of the National Academy of Medicine, past president of the American Association of Colleges of Pharmacy (AACP) and the American College of Clinical Pharmacy (ACCP), and Editor-in-Chief of Annals of Pharmacotherapy.

Jacques Turgeon, BPharm, PhD, is recognized internationally for his excellence in research and pharmacy education. He has received more than $70 million in research awards, authored more than 166 peer-reviewed articles, and mentored nearly 70 students. His research interests focus on studying factors responsible for the inter-subject variability in drug response, and he is renowned for his expertise in the role of pharmacogenetics in cardiovascular drug actions. Dr. Turgeon is currently Chief Scientific Officer of TRHC, Professor Emeritus from the Université de Montréal, Fellow of the Canadian Academy of Sciences, and Fellow of the Académie Nationale de Médecine, France.

Terri Warholak, PhD, RPh, CPHQ, FAPhA, is Professor and Assistant Dean of Academic Affairs and Assessment at the University of Arizona College of Pharmacy. In 2015, Dr. Warholak and colleagues won the Academy for Healthcare Improvement Duncan Neuhauser Award for Curricular Innovation for the Educating Pharmacists in Quality (EPIQ) program. She serves on national committees, including the Food and Drug Administration Drug Safety and Risk Management Advisory Committee and the National Quality Forum Scientific Methods Panel. Her research interests include medication error reduction and quality measure development. She has edited a book, published over 125 papers, and presented at the state, national, and international levels.
Rhys Axon, PhD, MPharm, MS, MRPharmS, is an assistant professor in the Department of Pharmacy Practice and Science at the University of Arizona College of Pharmacy and assistant director of the Medication Management Center research team. Dr. Axon’s research interests include improving the economic, clinical, and humanistic outcomes associated with managing chronic conditions, particularly pain and opioid use disorders, using both qualitative and quantitative methodologies. He also supports student pharmacists and pharmacists with scholarly activities and seeks to demonstrate the value of the pharmacy profession. He has published more than 30 peer-reviewed articles and presented his research at national and international conferences.

Nishita Amin, PharmD, BCGP, BCPS, CMWA, received her Doctor of Pharmacy degree from the Philadelphia College of Pharmacy and has completed a Postgraduate Year 1 (PGY1) Pharmacy Practice Residency at Northport VAMC. She is a board-certified geriatric pharmacist and board-certified pharmacotherapy specialist. Dr. Amin is a clinical pharmacist providing transition of care services and medication therapy management. She now serves as Director of Pharmacy Residency Programs and oversees the PGY1 Pharmacy residency program, PGY2 Clinical Pharmacogenomics residency program, Advanced Pharmacy Practice Experience students, and Drug Information Resource Center in the Applied Precision Pharmacotherapy Institute under the Research & Development Institute.
Research dissemination

H-index: 14

i10-index: 21

Citations to date: 991

Published articles to date: 131

Median impact factor of publications (2007-2020): 2.84
(Range 0.117 - 21.137)

Statistics reflected through December 31, 2020
Note: Data was collected January 12, 2021, and includes a comprehensive list of publications from SinfoniaRx, the Precision Pharmacotherapy Research & Development Institute, TRHC, and the Applied Precision Pharmacotherapy Institute in renowned journals. Total count excludes published abstracts.


Live presentations


Professional awards and recognition

- **Armando Silva-Almodóvar, PharmD**
  Recipient, Bronze Award for Poster Abstract, Academy of Managed Care Pharmacy Annual Meeting

- **Calvin Knowlton, BScPharm, MDiv, PhD, and Orsula Knowlton, PharmD, MBA**
  Recipients, Jacob W. Miller Award, American Pharmacists Association Foundation

- **Harman Dhatt (PhD candidate)**
  Recipient, Joseph B. Ryan Memorial Award, University of Arizona College of Pharmacy

- **Jenny Bingham, PharmD, BCACP**
  Recipient, Jack R. Cole, PhD, Distinguished Alumnus Award, University of Arizona College of Pharmacy; Recipient, Outstanding Poster Award, University of Arizona Interprofessional Rural Health Professions Conference; Nominee, Outstanding Faculty Mentor for Graduate/Professional Students, University of Arizona Graduate and Professional Student Council

- **Milap Nahata, PharmD, MS**
  Recipient, Bronze Award for Poster Abstract, Academy of Managed Care Pharmacy Annual Meeting; Recipient, James Beal Award, Ohio Pharmacists Association

- **Rhys Axon, PhD, MPharm, MS, MRPharmS**
  Nominee, University of Arizona College of Pharmacy A. Jay Gandolfi New Investigator Award; Nominee, University of Arizona Graduate and Professional Student Council Outstanding Faculty Award; Outstanding Poster Award, The University of Arizona Interprofessional Rural Health Professions Conference; and Gold Badge Abstract, International Society for Pharmacoeconomics and Outcomes Research (ISPOR)

- **Sandra Leal, PharmD, MPH, FAPhA, CDCES**
  Recipient, Excellence in Pharmacy Award, Skaggs School of Pharmacy and Pharmaceutical Sciences

- **Shannon Vaffis (PhD candidate)**
  Recipient, International Society for Pharmacoeconomics and Outcomes Research Distinguished Service Award; Recipient, Sawtooth Software Academic Grant; Recipient, William and Betty Milleson Fink Award, University of Arizona College of Pharmacy

- **Srujitha Marupuru, PharmD (PhD candidate)**
  Recipient, University of Arizona Academic Excellence in the Health and Pharmaceutical Outcomes Track; Recipient, Joseph B. Ryan Memorial Award for Outstanding Research in Pharmaceutical Sciences; 3rd Rank Awardee, Student Network Awards at ISPOR Student Chapter

- **Terri Warholak, PhD, RPh, CPHQ, FAPhA**
  Inductee, University of Arizona Academic Leadership Institute, The University of Arizona Office of Leadership and Organizational Development; Recipient, The Findlay E. Russell, MD, PhD, Distinguished Citizen Award, University of Arizona College of Pharmacy
Professional leadership roles

- **Daniel Arku (PhD candidate)** Member, University of Arizona Diversity and Inclusion Committee; Member, International Society of Pharmacoeconomics and Outcomes Research (ISPOR); Member, Project Management Institute (PMI); Member, University of Arizona College of Pharmacy Research Affairs Committee

- **Elizabeth Anderson (PhD candidate)** Trainee Membership Committee Member, American Society of Tropical Medicine and Hygiene; Member, Arizona Health Sciences Library; Student Fellow, UA Consortium on Gender-Based Violence

- **Jacques Turgeon, BPharm, PhD** Member, GTMRx Institute Precision Medicine Workgroup; Treasurer, American Society for Clinical Pharmacology and Therapeutics

- **Jenny Bingham, PharmD, BCACP** Workgroup Member, American Epilepsy Society Telehealth Task Force; Workgroup Member, American Pharmacists Association (APhA) Telehealth Advisory Committee; Member, APhA Telehealth Special Interest Group; Member, Arizona Pharmacy Association Mentor Connection Program; Member, Arizona Pharmacy Association Legislative Affairs Committee; Reviewer, American Society of Health-System Pharmacists Standards of Telehealth Pharmacy Practice; Member, GTMRx Institute Precision Medicine Workgroup; Member, GTMRx Institute Telehealth Delivery of Comprehensive Medication Management Workgroup; Technical Expert Panelist, Pharmacy Quality Alliance Antidepressant Medication Management

- **Milap Nahata, PharmD, MS** Member, Pharmacy Fellowship Committee, National Academy of Medicine; Member, Gloria Niemeyer Francke Leadership Mentor Award Selection Committee, American Pharmacists Association; Member, Mission Critical Task Force for the National Rho Chi Pharmacy Honor Society

- **Rhys Axon, PhD, MPharm, MS, MRPharmS** Member, Academy of Managed Care Pharmacy (AMCP); Member, American Association of Colleges of Pharmacy (AACC); Member, ISPOR; Member, Royal Pharmaceutical Society (RPS)

- **Sandra Leal, PharmD, MPH, FAPhA, CDCES** President-elect, APhA; Vice Chair, El Rio Health Center; Board Member, National Center for Farmworker Health; Board Member, Alliance for Integrated Medication Management

- **Srujitha Marupuru (PhD candidate)** President, University of Arizona ISPOR Student Chapter

- **Terri Warholak, PhD, RPh, CPHQ, FAPhA** Co-chair, Research Coordinating Committee, Pharmacy Quality Alliance (PQA); Chair, Economic, Social and Administrative Sciences (ESAS) Section, APhA; Chair, Education Standing Committee, APhA; Member, Food and Drug Administration (FDA) Drug Safety and Risk Management (DSaRM) Advisory Committee; Reviewer, National Science Foundation, Small Business Innovation Research, Small Business Technology Transfer grant program; Member, National Quality Forum Scientific Methods Panel; Vice Chair, Healthcare Quality Expert Committee, United States Pharmacopeial (USP) Convention
Peer reviewers

- **Elizabeth Anderson (PhD candidate)** American Journal of Public Health; BMC Pregnancy and Childbirth; BMC Women’s Health; BMJ Open; Breast Cancer Research and Treatment; Journal of the American Pharmacists Association; and Journal of Interprofessional Care

- **Harman Dhatt (PhD candidate)** Applied Clinical Informatics; Journal of the American Pharmacists Association; and Quality of Life Research

- **Jacques Turgeon, BPharm, PhD** Dove Medical Press; Clinical Microbiology and Infection; Cell; Journal of Clinical and Translational Research; and Journal of the American Board of Family Medicine

- **Jenny Bingham, PharmD, BCACP** Journal of the American Pharmacists Association; American Journal of Health-System Pharmacists; Arizona Journal of Pharmacy; Pharmacy (Basel, Switzerland); Children; Journal of Telemedicine and Telecare; HealthCare; Mental Health Clinician; and Journal of Health Care for the Poor and Underserved

- **Milap Nahata, PharmD, MS** Editor-in-Chief, Annals of Pharmacotherapy; peer reviewer for numerous journals

- **Nishita Amin, PharmD, BCGP, BCPS, CMWA** Journal of the American Board of Family Medicine

- **Rhys Axon, PhD, MPharm, MS, MRPharmS** Currents in Pharmacy Teaching and Learning; Journal of Managed Care & Specialty Pharmacy; International Journal of Pharmacy Practice; and Pharmacy

- **Terri Warholak, PhD, RPh, CPHQ, FAPhA** Peer reviewer for numerous professional journals, such as Currents in Pharmacy Teaching and Learning and Journal of the American Pharmacists Association
Postgraduate residency programs

Postgraduate Year 2 (PGY2) Ambulatory Care Pharmacy Residency Program
Site name: University of Arizona College of Pharmacy/SinfoniaRx

Karley Tranchina, PharmD, is a PGY2 ambulatory care pharmacy resident with the University of Arizona College of Pharmacy/SinfoniaRx Medication Management Program. She received her Doctor of Pharmacy from the University of the Sciences in Philadelphia. She completed her PGY1 pharmacy practice residency in New Jersey. Dr. Tranchina is currently working on a research project that investigates the impact of MedWise® on hospital readmission rates.

Postgraduate Year 1 (PGY1) Pharmacy Practice Residency Program
Site name: Tabula Rasa HealthCare

Aashish Sreeram, PharmD, is a PGY1 pharmacy practice resident in Moorestown, NJ. He received his Doctor of Pharmacy degree from the St. Louis College of Pharmacy in 2020. During his time in pharmacy school, he was involved in health outcomes research, where he discovered his interest in personalized medicine and pharmacy informatics. He was inspired to pursue a role as a data-driven pharmacist after completing research and informatics-based Advanced Pharmacy Practice Experiences (APPE) rotations. Dr. Sreeram will be an adjunct professor at the Philadelphia College of Pharmacy as part of his teaching certificate program. He is excited to see how emerging technology will shape both the profession of pharmacy and his practice in unique ways to impact patients.

Katie Pizzolato, PharmD, is a PGY1 pharmacy practice resident in Moorestown, NJ. She received her Doctor of Pharmacy degree from the University of Louisiana – Monroe College of Pharmacy in 2020. Upon graduation, she received the Award of Excellence in Clinical Communication. Dr. Pizzolato previously worked as a pharmacy technician and intern in chain retail for seven years. She developed a passion for pharmacogenomics and personalized medicine through teachings from her college professor, along with treating many diverse patient populations during her APPE rotations. Dr. Pizzolato will be an adjunct professor at the Philadelphia College of Pharmacy as part of its teaching certificate program. She is eager to expand her knowledge to provide optimal personalized care to patients.
Meghan Ha, PharmD, is a PGY1 pharmacy practice resident in Moorestown, NJ. She graduated from the University of Texas at Austin College of Pharmacy in 2020 with a Doctor of Pharmacy degree. She is recognized as an alumnus of the Lester Entrepreneurial Scholars Program and a recipient of the Van M. Smith Endowed Presidential Scholarship in Pharmacy and the Pharmacy Alumni Association Endowed Scholarship at her college. Prior to starting her residency, Dr. Ha had experience working at a long-term care pharmacy serving underserved patients and in developing strategies for the technological innovation of clinical trials. She will be an adjunct professor at the Philadelphia College of Pharmacy as a part of its teaching certificate program. Dr. Ha is passionate about merging her interests in creative design, healthcare technology, and clinical pharmacy to further enhance patient care.

Nicole M. Del Toro-Pagán, PharmD, BCPS, is a PGY2 pharmacy practice resident in Moorestown, NJ with a focus in clinical pharmacogenomics. She received her Bachelor of Science in Chemistry and Doctorate in Pharmacy from the University of Puerto Rico. Prior to starting her residency, Dr. Del Toro-Pagán worked as a multi-specialty clinical pharmacist in an inpatient setting, where she also completed a PGY1 pharmacy practice residency in July 2019. She is also fully bilingual in Spanish and English.
Current research projects

1. A critical appraisal of drug-drug interaction databases
2. A prospective multicenter cohort study evaluating the characteristics and clinical implications of a clinical decision support system and of pharmacogenomic information relevant to polypharmacy actions in patients with advanced illness who are receiving multiple drugs for pain or other diseases
3. An observational exploration of various medication risk scores as a predictive value of adverse drug events: Development and validation of a dose-sensitive anticholinergic and sedative composite risk score
4. An observational exploration of various medication risk scores calculated from electronic health record data in a general population and correlated with medical outcomes
5. An observational study of drug-drug interactions involving CYP2D6 among people with chronic opioid use and their potential impact on healthcare costs
6. Assessing the potential value of preemptive pharmacogenetic testing in a Program of All-inclusive Care for the Elderly (PACE) setting
7. Assessment of clinical outcomes following a pharmacist-delivered Comprehensive Medication Review for patients with type 2 diabetes and dyslipidemia
8. Assessment of medication prescribing and adherence in older adults with asthma and chronic obstructive pulmonary disease
9. Assessment of mortality rates in SARS-CoV-2–infected populations treated with repurposed medications
10. Comparing the predictive strength of the Length of Stay, Accuity, Comorbidities (LACE+) Index with the MedWise Risk Score™ on hospital readmission rates: A non-inferiority observational study
11. Comprehensive Medication Review completion rates in medically underserved areas and populations
12. Effect of concierge pharmacist services on provider burnout
13. Evaluating community pharmacy staff perceptions of a clinical decision support system
14. Evaluating medication risk management program outcomes and efficiencies
15. Evaluating patient no-show appointment rates during a pandemic
16. Evaluating the impact of CYP2D6-guided opioid therapy on pain management in a Program of All-inclusive Care for the Elderly (PACE) setting
17. Exploration of Program of All-inclusive Care for the Elderly (PACE) value by examination of clinical outcomes
18. Exploring the impact of MedWise Risk Score assessment on readmission rates within the Discharge Companion Program
19. Human-on-a-chip evaluation of drug-drug interactions associated with COVID-19 therapeutics for an at-risk population
20. Identifying the effects of drug pricing on medication adherence
21. Identifying and reducing the risks associated with chronic opioid use among older Medicare adults
22. Impact of low-level chronic systemic inflammation on Alzheimer’s drug disposition and action
23. Impact of pharmacist-driven Medication Safety Reviews™ and polypharmacy calls in the Program of All-inclusive Care for the Elderly (PACE) setting
24. Investigating changes to Medicaid telehealth reimbursement policies during a pandemic
25. Investigating the impact of SARS-CoV-2 on pharmacy personnel and sleep quality
26. Measuring the impact of novel medication adherence interventions on the proportion of days covered rate
27. Modulatory role of blood-brain-barrier and enzymatic activity in an innovative human model of cholinergic drug-induced dementia
Current research projects

28. Program of All-inclusive Care for the Elderly (PACE) organization attributes associated with economic and clinical outcomes

29. Pharmacist-driven antipsychotic deprescribing in the Program of All-inclusive Care for the Elderly (PACE): A pilot study

30. Pharmacists’ Comprehensive Medication Review interventions: Assessment of Subjective, Objective, Assessment, Plan (SOAP) notes to characterize impact

31. Pharmacometrics modeling and simulation of probe drug profiles subjected to competitive inhibition under various drug administration conditions

32. Pharmacy technician perspectives of an enhanced medication reconciliation protocol in a national Medication Therapy Management call center setting

33. Predicting adverse drug events, hospitalizations, and emergency department visits in Program of All-inclusive Care for the Elderly (PACE): A comparison of the MedWise Risk Score™ and hierarchical condition category scores

34. Predictive value of MedWise Risk Score and pharmacogenomics on health outcomes in patients with type 2 diabetes

35. Reduction in anticholinergic burden related to bladder antimuscarinics for patients in a program of All-inclusive Care for the Elderly (PACE) setting

36. Simulation of risk of adverse drug events associated with the initiation of drugs repurposed for the treatment of SARS-CoV-2 in adults with polypharmacy using data from large Medicare and commercially insured populations

37. The clinical effectiveness of pharmacist-driven medication reviews in Enhanced Medication Therapy Management (EMTM)

38. The clinical effectiveness of pharmacist-driven medication reviews in Program of All-inclusive Care for the Elderly (PACE)

39. The impact of pharmacist-delivered Comprehensive Medication Reviews on national quality forum and consumer assessment of healthcare providers and systems scores in a hospice setting

40. Torsadogenic risk evaluation of physiological and supraphysiological medication dosing
Drug Information Resource Center (DIRC)

2020 Clinical inquiries received:

94
2020 Types of clinical inquiries:

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<tr>
<th>Type</th>
<th>Number of Clinical Inquiries</th>
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<tr>
<td>Interaction-related</td>
<td>8</td>
</tr>
<tr>
<td>Matrix-related</td>
<td>28</td>
</tr>
<tr>
<td>Pharmacotherapy-related</td>
<td>44</td>
</tr>
<tr>
<td>PGx-related</td>
<td>3</td>
</tr>
<tr>
<td>Other</td>
<td>11</td>
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2020 Departmental use of the DIRC:

MedWise: 30
PACE: 33
TRHCU: 19
Other: 12
2020 Clinical Inquiry issues: 12

APPE student contributions:
- 2 articles

PGY1 contributions:
- 11

PGY2 contributions:
- 3

2020 Quick phacts:
- 10

Global cost appropriateness initiative algorithms created in collaboration with TRHCU:
- 8

Total clinical inquiries received:
- 124

Total drug information inquiries uploaded in centralized repository:
- 159
“Thank you for your quick and thoughtful response. I’ll be using the information for a polypharmacy call with a prescriber this afternoon, and this information is really helpful to get my point across. Thanks again!”

“I was asked a very extensive question regarding a participant, which would have taken hours of my day to properly answer. [The Drug Information Specialist] answered the question flawlessly and explained the answer very clearly. She offered an alternative solution and cited all the supporting evidence. I really appreciate her efforts in providing me and the doctor with a very comprehensive and well-put-together response. The DIRC is one of the best additions to TRHC in my few years here. Five stars and a huge thank you! Our client will be over the moon!”

“This was my first time using the D IRC: I found the response insightful and practical for our PACE providers. I appreciate the time Chandni took to research this unusual topic and look forward to using this service in the future.”