

## Trent G. Towne, PharmD, BCPS, AQ Infectious Diseases

### Personal Data

Address (college): Manchester University  
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### Education / Training

July 2007 – June 2008 ASHP-Accredited PGY2 Infectious Diseases Pharmacy Residency  
South Texas Veterans Healthcare System, San Antonio, TX

July 2006 – June 2007 ASHP-Accredited PGY1 Pharmacy Residency  
Wishard Health Services / Purdue University, Indianapolis, IN

August 2002 – May 2006 Doctor of Pharmacy  
School of Pharmacy and Pharmaceutical Sciences  
Purdue University, West Lafayette, Indiana

August 1998 – May 2002 Bachelor of the Arts (Chemistry)  
Hanover College, Hanover, Indiana

### Certifications

September 2013 – Present APhA Pharmacy-Based Immunization Delivery Trainer

August 2013 – Present American Heart Association – BLS Instructor

August 2013 – Present American Heart Association BLS Certification

June 2012 – Present American Red Cross – Adult First Aid/CPR/AED Instructor

June 2012 – Present American Red Cross – First Aid Certification

Dec 2010 – Present BCPS Added Qualifications – Infectious Diseases (AQID)

July 2009 – Present American Red Cross - Adult CPR/AED Certification

Dec 2008 – Present Board Certified Pharmacotherapy Specialist (BCPS)

Sept 2008 – Oct 2011 ACCP Teaching and Learning Certificate

Aug 2008 – Aug 2012 New Jersey Pharmacist (License No. 28R103215200)

Aug 2008 APhA Pharmacy-Based Immunization Delivery

July 2006 – July 2007 Indiana Pharmacy Residency Teaching Certificate

July 2006 – Present Indiana Pharmacist (License No. 26022140A)

**Academic Appointments**

Sept 2011 – Present	Associate Professor of Pharmacy Practice College of Pharmacy Manchester University, Fort Wayne, IN
July 2008 – August 2011	Assistant Professor of Clinical Pharmacy Philadelphia College of Pharmacy University of the Sciences, Philadelphia PA
July 2007 – June 2008	Clinical Instructor Pharmacotherapy Education and Research Center The University of Texas Health Science Center at San Antonio, San Antonio, TX
July 2006 – June 2007	Clinical Instructor School of Pharmacy and Pharmaceutical Sciences Purdue University, West Lafayette, IN

**Teaching Experience****Didactic Experience****Manchester University College of Pharmacy**

Fall 2013	APhA Pharmacy-Based Immunization Training Co-Lecturer and Facilitator (5hrs) Entry-Level Doctor of Pharmacy Program
Fall 2013	PHRM320: Introduction to Pharmacy 1 Lectures: Contemporary Issues in Pharmacy Practice (2hr) Entry-Level Doctor of Pharmacy Program
Fall 2013	PHRM323: Communications in Pharmacy Practice Lecture: Healthcare and Medication Adherence (3hr) Longitudinal Project: Healthcare and Medication Adherence Entry-Level Doctor of Pharmacy Program
Fall 2013	PP330: Pharmacy Practice Lab Facilitator Entry-Level Doctor of Pharmacy Program
Spring 2013	PHRM321: Introduction to Pharmacy II Course Coordinator Lectures: Clinical Quality Improvement (1.5hr) Healthcare System Medication Distribution (1.5hr) Community Pharmacy Medication Distribution (1.5hr) Entry-Level Doctor of Pharmacy Program
Spring 2013	PHRM324: Nonprescription Therapeutics Lectures: Insect Bites/Stings and Lice (1hr) Scaly Dermatoses (1hr) Entry-Level Doctor of Pharmacy Program
Spring 2013	PHRM331: Pharmacy Practice Lab II Facilitator Entry-Level Doctor of Pharmacy Program
Fall 2012	PHRM320: Introduction to Pharmacy 1 Lectures: Medication Shortages (2hr) Entry-Level Doctor of Pharmacy Program

Fall 2012 PHRM323: Communications in Pharmacy Practice  
Lecture: Healthcare and Medication Adherence (3hr)  
Entry-Level Doctor of Pharmacy Program

Fall 2012 PP330: Pharmacy Practice Lab  
Facilitator  
Entry-Level Doctor of Pharmacy Program

Manchester College

Spring 2012 ESS247: Pharmacology  
Lecture: Infectious Diseases Pharmacology (1hr)  
Entry- and Master-Level Exercise Science Program

Philadelphia College of Pharmacy at the University of the Sciences in Philadelphia

Spring 2011 PP568: Practice Lab and Case Studies IV  
Facilitator  
Entry-Level Doctor of Pharmacy Program

Spring 2011 PP566: Human Disease and Application of Therapeutics III  
Lectures: Hospital-, Ventilator-, and Healthcare-associated Pneumonia (2h)  
Entry-Level Doctor of Pharmacy Program

Spring 2011 PP548: Infectious Diseases Therapeutics  
Co-Course Coordinator / Lecturer: Antibiotic Resistance and Stewardship (2h)  
*Clostridium difficile* Associated Disease (2h)  
Zoonotic infections of Companion Animals (1h)  
Entry-Level Doctor of Pharmacy Program

Spring 2011 PP468: Practice Lab and Case Studies II  
Facilitator  
Entry-Level Doctor of Pharmacy Program

Fall 2010 PP569: Clinical Pharmacokinetics and Individualized Drug Dosing  
Lecture: Vancomycin Pharmacokinetics (2hrs)  
Entry-Level Doctor of Pharmacy Program

Fall 2010 PP567: Practice Lab and Case Studies III  
Facilitator  
Entry-Level Doctor of Pharmacy Program

Fall 2010 PP565: Human Disease and Application of Therapeutics II  
Lectures: Infectious Endocarditis (2h)  
Skin and Soft Tissue Infections (2h)  
Sexually Transmitted Diseases (2h)  
Tuberculosis (2h)  
Entry-Level Doctor of Pharmacy Program

Fall 2010 PP547: Critical Care Therapeutics  
Lecture: Infectious Diseases In Critically Ill Patients (2h)  
Entry-Level Doctor of Pharmacy Program

Spring 2010 PP558: Clinical Case Studies II  
Facilitator  
Entry-Level Doctor of Pharmacy Program

Spring 2010 PP554: Principles of Human Disorders and Pharmacotherapeutics IV  
Lectures: Tuberculosis (2hrs)

	Infectious Endocarditis (2h) Entry-Level Doctor of Pharmacy Program
Spring 2010	PP553: Principles of Human Disorders and Pharmacotherapeutics III Lectures: Sexually Transmitted Diseases (2.5hrs) Intrabdominal Infections (1.5hrs) Entry-Level Doctor of Pharmacy Program
Spring 2010	PP548: Infectious Diseases Therapeutics Co-Course Coordinator / Lecturer: Antibiotic Resistance (2h) Antibiotic Stewardship (2h) Influenza in the 21 <sup>st</sup> Century (1h) Entry-Level Doctor of Pharmacy Program
Spring 2010	PP547: Critical Care Therapeutics Lecture/Discussion Co-Presenter: Hospital-Acquired Pneumonia (2hrs) Entry-Level Doctor of Pharmacy Program
Spring 2010	PP495: Independent Project in Pharmacy Practice Project Mentor for 1 student Entry-Level Doctor of Pharmacy Program
Fall 2009	PP 648: Clinical Pharmacokinetics Lecture: Vancomycin Pharmacokinetics (2hrs) Entry-Level Doctor of Pharmacy Program
Fall 2009	PP557: Clinical Case Studies I Facilitator Entry-Level Doctor of Pharmacy Program
Spring 2009	PP558: Clinical Case Studies II Facilitator Entry-Level Doctor of Pharmacy Program
Spring 2009	PP554: Principles of Human Disorders and Pharmacotherapeutics IV Lecture: Tuberculosis (2hrs) Entry-Level Doctor of Pharmacy Program
Spring 2009	PP553: Principles of Human Disorders and Pharmacotherapeutics III Lectures: Sexually Transmitted Diseases (2.5hrs) Intrabdominal Infections (1.5hrs) Entry-Level Doctor of Pharmacy Program
Spring 2009	PP547: Critical Care Therapeutics Lecture/Discussion Co-Presenter: Hospital-Acquired Pneumonia (2hrs) Entry-Level Doctor of Pharmacy Program
Fall 2008	PP557: Clinical Case Studies I Facilitator Entry-Level Doctor of Pharmacy Program

University of Texas at Austin College of Pharmacy

2008	375E: Pharmacotherapeutics IIA Lecture: Endocarditis (1hr) Entry-Level Doctor of Pharmacy Program
2007 – 2008	PHR282J: Pharmacotherapy Seminar Lectures: Hospital-Acquired and Ventilator-Associated Pneumonia (2hrs)

HIV/AIDS (2hrs)  
Master's-Level Residency Program

Purdue University School of Pharmacy and Pharmaceutical Sciences

2007	PP404: Integrated Laboratory VI Instructor Entry-Level Doctor of Pharmacy Program
2006	PP 403: Integrated Laboratory V Instructor Entry-Level Doctor of Pharmacy Program

**Clinical Clerkship Experience**

Philadelphia College of Pharmacy at the University of the Sciences in Philadelphia

2008 – 2011	PP661-9: Advanced Clinical Clerkship Experience – 5 weeks per rotation Preceptor: Acute Care – Infectious Diseases Entry-Level Doctor of Pharmacy Program
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**Post-graduate Trainees (residency program director and primary preceptor)**

2009	Sarah Bozorgnia, Pharm.D. PGY1 Pharmacy Residency Adult Infectious Diseases Rotation Philadelphia College of Pharmacy at the University of the Sciences in Philadelphia
2010	Millie Rajyaguru, Pharm.D. PGY1 Pharmacy Residency Adult Infectious Diseases Rotation Philadelphia College of Pharmacy at the University of the Sciences in Philadelphia

**Post-graduate Trainees (primary preceptor or co-preceptor)**

2013	PGY1 Longitudinal Infectious Diseases Discussion Rotation (4 residents; co-preceptor) Parkview Regional Medical Center
2013	PGY1 Residency Project Longitudinal Rotation (1 resident; co-preceptor) Parkview Regional Medical Center
2012	PGY1 Residency Project Longitudinal Rotation (1 resident; co-preceptor) Parkview Regional Medical Center
2012	PGY1 Longitudinal Infectious Diseases Discussion Rotation (4 resident; co-preceptor) Parkview Regional Medical Center
2008	PGY1 Adult Infectious Diseases Rotation (1 resident; primary preceptor) Philadelphia College of Pharmacy at the University of the Sciences in Philadelphia

**Publications**

**Peer-Reviewed Manuscripts**

1. Beckett RB, **Towne TG**, Kiersma ME, and Chen AMH. Faculty Knowledge and Perceptions of Pharmacy Practice and Education at a Traditionally Liberal Arts College. *Currents in Pharmacy Teaching and Learning*. (Accepted for publication May 2013)
2. George JM, **Towne TG**, and Rodvold KA. Prolonged Infusions of  $\beta$ -Lactam Antibiotics: Implication for Antimicrobial Stewardship. *Pharmacotherapy*. 2012; 32(8): 707-21.

3. George JM, **Towne TG**, and Rodvold KA. Prolonged Antibiotic Infusions to Maximize Pharmacokinetics and Pharmacodynamics of Beta-Lactam Agents. *Society of Infectious Diseases Pharmacists Newsletter*. 2011; 21(2): 20-39.
4. **Towne TG**, Lewis II JS, Herrera M, Wickes B, Jorgensen JJ. Detection of SHV-type Extended-Spectrum Beta-Lactamases in *Enterobacter* spp. Isolates. *J Clin Microbiol*. 2010; 48(1): 298-9.
5. **Towne TG**, Lewis JS, Echevarria K. Efficacy and Safety of Cefepime. *Lancet Infect Dis*. 2009; 9(1): 4-6.
6. **Towne TG**, Campbell JA, Maxwell LL, Abel SR. Book Review: Developing Clinical Practice Skills for Pharmacists. *Ann Pharmacother*. 2006; 40: 1480-81.

## Abstracts

1. Knefelkamp C, **Towne, TG**, Swihart M. Observations of Fluconazole Prescribing and Dosing at a Community-Based, Regional Medical Center. American Society of Health-Systems Pharmacists Midyear Clinical Meeting Abstracts, December 2013.
2. George JM, **Towne TG**. The Amazing Race: An Adventure in Infectious Diseases (ID) Pharmacotherapy in an Elective Course. American Association of College of Pharmacy Annual Meeting Abstracts. July 2013.
3. Beckett RD, **Towne TG**, Kiersma M. Faculty Knowledge and Perceptions of Pharmacy Education at a Traditionally Liberal Arts College. American Association of College of Pharmacy Annual Meeting Abstracts. July 2012.
4. Akrouf S, Czosnowski C, **Towne T**. Observation of the use of probiotic agents in the inpatient setting at Cooper University Hospital. American Society of Health-Systems Pharmacists Midyear Clinical Meeting Abstracts, December 2011.
5. Czosnowski LM, Czosnowski QA, Duenas GG, George JM, Tietze KJ, Bio LL, Cawley MJ, Curtain LB, Hussar DA, McCluggage LK, Morel DW, Scholtz JM, Spinler SA, Tarloff J, **Towne TG**, Whitman CB, Adejare A, Canaday BR, Mandos LA, Poon CY, and Lawson LA. Curricular Integration: Pharmacology, Therapeutics, Practice Lab and Case Studies. American Association of Colleges of Pharmacy Annual Meeting Abstracts, July 2011.
6. Rajyaguru MS, George J, **Towne T**. Evaluation of prescribing of highly active antiretroviral therapy (HAART) at a large urban university hospital. American Society of Health-Systems Pharmacists Midyear Clinical Meeting Abstracts, December 2010.
7. Mahajan B, Shah U, Hood C, **Towne TG**, and Cawley MJ. Methicillin-Resistant *Staphylococcus aureus* Infection: Impact on Pharmaceutical Cost from an Outpatient to Inpatient Setting. American Society of Health-Systems Pharmacists Midyear Clinical Meeting Abstracts, December 2010.
8. **Towne TG**, Pontiggia L, Reboli AC. Outcomes of Invasive Candidiasis based upon a weight-based dose of fluconazole: A retrospective analysis of data collected in the Anidulafungin versus Fluconazole for Invasive Candidiasis Trial. Infectious Diseases Society of America Annual Meeting Abstracts, October 2010.
9. Bozorgnia SL, George J, **Towne T**, Sutton J. Medication use evaluation of levofloxacin 750 mg at Cooper University Hospital. American Society of Health-Systems Pharmacists Midyear Clinical Meeting Abstracts, December 2009.
10. **Towne TG**, Lewis II JS, Herrera M, Wickes B, Jorgensen JJ. Detection of SHV-type Extended-Spectrum Beta-Lactamases in *Enterobacter* spp. Isolates. Infectious Diseases Society of America Annual Meeting Abstracts, October 2009.
11. Neese SG, Erdman SM, **Towne TG**, Hallak PE, Wilson SJ. Outcomes of Patients with Community-Associated Methicillin-Resistant *Staphylococcus aureus* Infections. Infectious Diseases Society of America Annual Meeting Abstracts, October 2007.

## Book Chapters

1. **Towne TG**, Erdman SM. Community-Acquired Pneumonia. In: Schwinghammer TL, Koehler JM, eds. *Pharmacotherapy Casebook: A Patient-Focused Approach*. 9th ed. New York: McGraw-Hill. (Awaiting release)
2. **Towne TG**. Aminoglycosides. In: Wexler P, ed. *Encyclopedia of Toxicology*. 3<sup>rd</sup> ed. Elsevier. (In press)
3. **Towne TG** and Murray AL. Cisplatin. In: Wexler P, ed. *Encyclopedia of Toxicology*. 3<sup>rd</sup> ed. Elsevier (In press)
4. **Towne TG**. Infectious Endocarditis. In: Miller M, Attridge R, Moote R, and Ryan L, eds. *Internal Medicine at Your Fingertips: The Clinician's Peripheral Brain*. 2013. 1<sup>st</sup> ed. New York: McGraw-Hill.
5. **Towne TG**, Erdman SM. Community-Acquired Pneumonia. In: Schwinghammer TL, Koehler JM, eds. *Pharmacotherapy Casebook: A Patient-Focused Approach*. 8th ed. New York: McGraw-Hill, 2011.
6. **Towne TG**, Erdman SM. Community-Acquired Pneumonia. In: Schwinghammer TL, Koehler JM, eds. *Pharmacotherapy Casebook: A Patient-Focused Approach*. 7th ed. New York: McGraw-Hill, 2008.

**Presentations****Invited Presentations**

Multiple-Drug Resistant Gram-Negative Bacteria in 2013: What you need to know about these organisms before they shut down your facility

Co-Presented with Michele Swihart, PharmD, BCPS

Fort Wayne Medical Education Program and Parkview Regional Medical Center – Current Topics in Infectious Diseases Conference

Fort Wayne, Indiana; January 24, 2013

Optimizing use of antimicrobials in human medicine and model stewardship programs: From ranches and hospitals to the home: Policy development for responsible antibiotic use across the spectrum

American Public Health Association Annual Conference

San Francisco, California; October 29, 2012

Vaccinations and Pharmacy

Northeast Indiana Public Radio – Midday Matters Health 360

Fort Wayne, Indiana; March 7, 2012

Tigecycline for the Treatment of Multi-Drug Resistant Enterobacteriaceae Infections

San Antonio Citywide Bug Club

San Antonio, Texas; April 28, 2009

**Manchester University Presentations**

My Health or Ours? Which is More Important

Co-Presented with Ozlem Ersin, PhD, MBA, MEd

Manchester University 2013 Discussion Day

North Manchester, IN; February 27, 2013.

Clostridium difficile Infection: A Preview of Integrated Pharmacotherapeutics

Fall Board of Trustees Learning Academy

Fort Wayne, Indiana; October 19, 2012

Academic Rigor: A Clinical Faculty Member's Perspective

2012 Manchester University Faculty Workshop

North Manchester, Indiana; August 23, 2012

Antimicrobial Resistance and the Antimicrobial Drug Pipeline in 2011: What we know, what we Don't and the Consequences of Inaction

Friday Morning Faculty Seminar

Fort Wayne, Indiana; December 16, 2011

**Continuing Professional Development**

Integrating Material in IPT: Within and Across the Course and Curriculum

Manchester University College of Pharmacy: Integrated Pharmacotherapy Development Session

Fort Wayne, IN; December 4, 2013.

Practicing and Teaching Student Pharmacists in Experiential Education: Lessons from the Institutional Field of Play

Manchester University College of Pharmacy: 2<sup>nd</sup> Annual Preceptor Development Event

Fort Wayne, IN; August 28, 2013.

If at First you don't Succeed...Don't do the same thing again: Creating the better exam question

Manchester University College of Pharmacy: Pharmacy Practice Development Seminar Series

Fort Wayne, IN; July 25, 2013.

Creating a research question: Not just randomized, placebo-controlled, double-blinded studies  
 Manchester University College of Pharmacy: Pharmacy Practice Development Seminar Series  
 Fort Wayne, IN; May 15, 2013.

Practicing and Teaching In the Trenches  
 Manchester University College of Pharmacy: Pharmacy Practice Development Seminar Series  
 Fort Wayne, IN; April 26, 2013.

Antimicrobial Resistance and the Antimicrobial Drug Pipeline in 2013: What we know, what we Don't and the  
 Consequences of Inaction.  
 NEIPA CE Symposium 2013  
 Fort Wayne, IN; February 23, 2013. (ACPE Approved)

Treating Antibacterial Resistant Gram-Positive Organisms.  
 Fort Wayne Graduate Medical Education Program.  
 Fort Wayne, IN; July 2012. (CME Approved)

### **Professional Memberships**

American Association of College of Pharmacy	2008 - Present
American College of Clinical Pharmacy	2008 - Present
American Public Health Association	2012 - 2013
American Society of Health Systems Pharmacists	2005 - Present
Infectious Diseases Society of America	2007 - Present
Northeast Indiana Pharmacists Alliance	2012 - Present
Rho Chi Honor Society	2004 - Present
Society of Infectious Diseases Pharmacists (SIDP)	2007 - Present

### **Professional Service**

#### **National**

Board of Pharmaceutical Specialties Pharmacotherapy Item Writer	2013 - Present
ACCP Student/Resident Curriculum Vitae Mentor	2013 - Present
ASHP Midyear Clinical Meeting Student Poster Mentor	2012
Vice Chair, SIDP Publications Committee	2012 - Present
Member, SIDP Publications Committee	2009 – Present

#### **Regional**

NEPIA, President	2014 - Present
NEIPA, President Elect	2013 - 2014
NEIPA, Board Member	2013 - Present

#### **Manchester University College of Pharmacy**

Chair, Promotion and Tenure Committee	2013 - Present
Member, Faculty Search Committee	2013 – Present
Member, Admissions Committee	2011 – Present
Member, Assessment Committee	2012 – Present
Member, Faculty By-Laws Development Ad Hoc Committee	2011 - 2012
Member, OSCE Task Force	2012 – Present
Chair, MUCOP Pharmacy Practice Department Mission, Vision and Goals Development Team	2012
Chair, Infectious Diseases IPT Block Development Team	2012 – Present
Member, ASHP Midyear Clinical Meeting Faculty Recruitment Team	2012
Member, MUCOP Department of Pharmaceutical Sciences Faculty Recruitment Search Committee	2012 - 2013
Member, Department of Pharmacy Practice Chair Search Committee	2012



**Parkview Regional Medical Center**

Member, Residency Advisory Council	2013 - Present
Member, Antimicrobial Stewardship Team	2012 – Present
Member, Infectious Diseases Symposium Planning Committee	2012 – Present

**Other**

Reviewer, Journal of Health-System Pharmacy Residents	2013 – Present
Reviewer, The American Journal of the Medical Sciences	2012 – Present
Book Reviewer, Securing and Excelling in a Pharmacy Residency	2011

**Awards and Honors**

2010 Educational Bright Idea Award – University of the Sciences

1/2/14