

## *Curriculum Vitae*

**Shivajirao (“Shiv”) Prakash Patil, MD, MPH, BC-ADM, FAAFP**

Assistant Professor (Probationary/Tenure Track) & Director of Research  
Department of Family Medicine, Brody School of Medicine, East Carolina University, Greenville, NC

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### ***Medical Education***

#### **Medical School**

Bachelor of Medicine & Bachelor of Surgery (M.B.B.S.)  
JMF’s ACPM Medical College, Maharashtra University of Health Sciences, Dhule, India  
December 1999 to July 2004

#### **Internship**

Rotatory Clinical Internship  
Government Medical College, Miraj, India  
August 2004 to July 2005

Family Medicine  
Brody School of Medicine, East Carolina University/ECU Health Medical Center, Greenville, NC  
July 2010 to June 2011

#### **Residency**

Family Medicine  
Brody School of Medicine, East Carolina University/ECU Health Medical Center, Greenville, NC  
July 2011 to June 2013

#### **Fellowship**

Diabetes & Metabolism  
Division of Endocrinology, Brody School of Medicine  
East Carolina University/ECU Health Medical Center, Greenville, NC  
July 2013 to June 2014

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### ***Public Health Education***

#### **Master of Public Health (MPH) with Honors (Epidemiology)**

Texas A&M School of Public Health, College Station, TX  
January 2007 to May 2009

#### **Additional doctoral coursework in public health (21 credit hours in Epidemiology and Biostatistics)**

Texas A&M School of Public Health, College Station, TX  
August 2009 to May 2010

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### ***Faculty Development Fellowships***

#### **Family Medicine**

Faculty Development Fellowship  
Dept of Family Medicine, University of North Carolina School of Medicine, Chapel Hill, NC  
July 2019 to October 2020

Faculty Development Fellowship  
Dept of Family Medicine, Brody School of Medicine, East Carolina University, Greenville, NC  
July 2013 to June 2014

#### **Research**

Grant Generation Project (GGP) Fellowship  
North America Primary Care Research Group (NAPCRG).  
August 2018 to June 2019

#### **Quality Improvement & Leadership**

Teachers of Quality Academy Fellowship  
Brody School of Medicine, East Carolina University, Greenville, NC  
July 2016-August 2017

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### ***Current Licenses/ Certificates***

- 1) American Board of Family Medicine, Initial certification – 11/5/2013, Enrolled in Family Medicine Certification Longitudinal Assessment (FMCLA) in 01/2023-present.
- 2) Full License, North Carolina Medical Board: Licensed 11/2013 (current)
- 3) Board Certified in Advanced Diabetes Management (BC-ADM) (2015-2025)
- 4) Board Certified in Obesity Medicine (2016-2026)
- 5) Education Commission for Foreign Medical Graduates (ECFMG) Certified (2009 - current)
- 6) Certificate in Change Leadership in Medical Education, Center for Creative Leadership (2017)

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### ***Faculty Appointments***

- **Assistant Professor of Family Medicine (Probationary/TenureTrack)** (July 2018 - present)  
Brody School of Medicine, East Carolina University, Greenville, NC
- **Clinical Assistant Professor of Family Medicine (Fixed-Term Track)** (July 2014 – June 2018)  
Brody School of Medicine at East Carolina University, Greenville, NC

### ***Clinical Appointments***

- **Attending Physician**  
ECU Family Medicine Clinic (July 2014 – present)
- **Attending Physician**  
Family Medicine Inpatient Service, ECU Health Medical Center, Greenville, NC (July 2014 - present)
- **Medical Officer** (Aug 2006 – Dec 2006)  
Government Primary Health Center & National Polio Immunization Program, Sangli, India

### *Administrative Appointments*

- **Director of Research Division** (April 2023 – present)  
Dept of Family Medicine, Brody School of Medicine, East Carolina University, Greenville, NC
  - **Director of 4<sup>th</sup> Year Medical Students' Family Medicine Electives** (July 2021 – present)  
Dept of Family Medicine, Brody School of Medicine, East Carolina University, Greenville, NC
  - **Member of Medical Students Admissions Screening Committee** (July 2020 – present)  
Brody School of Medicine, East Carolina University, Greenville, NC
  - **Interim Director of Research Division, Dept of Family Medicine** (April 2022 – March 2023)  
Brody School of Medicine, East Carolina University, Greenville, NC
  - **Associate Director of Research Division, Dept of Family Medicine** (July 2016 – March 2022)  
Brody School of Medicine, East Carolina University, Greenville, NC
  - **Assistant Residency Director of Family Medicine** (July 2018 – June 2020)  
Brody School of Medicine at East Carolina University, Greenville, NC
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### *Teaching Experience*

- **Brody School of Medicine at East Carolina University, Greenville, NC**

#### **Family Medicine Residents:**

- A multidisciplinary diabetes clinic elective for family medicine residents (2017 – present)
- Precepting residents in their continuity clinic (2014 – present)
- Teaching and rounding with residents on family medicine inpatient service (2014 – present)
- Inpatient Diabetes Management Orientation for Interns during FMC1 block (2014 – present)
- Outpatient Diabetes Management Curriculum for Interns during FMC2 block (2015 – present)
- Inpatient and outpatient diabetes management curriculum (classroom presentations) (2014 – present)

#### **Medical Students:**

- Teaching third- and fourth-year medical students scheduled in continuity clinic (July 2014 – current)
- Small Group Leader for Doctoring and Foundations of Medicine for the first- and second-year medical students (July 2016 – June 2021)
- Longitudinal curriculum mentor for M1 students
- PDR
- Physiology

#### **Diabetes and Endocrinology Fellows**

- Ketosis Prone Diabetes
- Latent Autoimmune Diabetes Mellitus
- Cardiovascular Complications of Diabetes

- **Texas A&M School of Public Health, College Station, TX**

#### Graduate Teaching Assistant

- Fundamentals of Epidemiology (August - December 2008)
  - Epidemiological Methods I (August – December 2009)
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### *Clinical Experience*

#### **ECU Family Medicine Center, Greenville, NC (July 2014 – present)**

- I provide primary care to patients of all ages in my continuity clinic.
- I established a multidisciplinary diabetes clinic within the ECU Family Medicine Center where we see patients with diabetes, complex comorbidities, and adverse social determinants of health. I lead this clinic with help of a clinical pharmacist, two dietitians, one diabetes educator, two health coaches, a behavioral health consultant and an LPN. We manage several patients with diabetes using continuous glucose monitors (CGM).
- I manage diabetes during pregnancy for ECU Family Medicine Clinic patients until they establish care with high-risk obstetrics clinic for the remainder of their pregnancy.

#### **ECU Health Medical Center, Greenville, NC (July 2014 – present)**

- I serve as an attending physician on family medicine inpatient service.

#### **Government Primary Health Center, Sangli, India (August 2006 – December 2006)**

- I provided primary, acute and obstetrics care at a rural primary health center.
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### *Advising and Mentoring*

#### **1. Brody School of Medicine, Health System Transformation and Leadership Distinction Track (LINC)**

- a) Zachary Williams: QI Project – Diabetes registry at ECU Family Medicine; 2016-2018
- b) Luke Kyle: QI Project – Diabetic foot exam at Pirate Module, ECU Family Medicine; 2018-2021
- c) Dan Ta; QI Project – Increasing COVID-19 Vaccination Rate. Student withdrew himself from the track (2021)
- d) Garrett Berk, QI Project – Increasing mammography referrals; 2022-2023

#### **2. Brody School of Medicine, East Carolina University**

- a) Stephanie Wilcher (M4 student) completed individually designed Diabetes Clinic and Research Elective in August 2021. Research topic: Diabetes Prevention Program and Medications

#### **3. School of Dental Medicine, East Carolina University**

- a) Brittanie Height & Monique Duru (First year dental students & Schweitzer fellows): Project: Bridging the Gap: Investigating the Link between Oral Health and Diabetes in Eastern NC (2019 – 2021)

#### **4. Department of Family Medicine, Brody School of Medicine**

- a) Senior Faculty Mentor for Dr. Geraldo Gonzalez Rodriguez (2023 – present)
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### *Research Experience*

#### **Grants: Funded**

- Title: Carolina Consortium to Improve BP Control in Vulnerable Populations (2022 – 2027)  
Sponsor: PCORI (\$5,620,557)  
Role: **ECU site Co-PI** with Dr. Messenger; (Overall PIs: Drs. Cummings and Halladay)

- Title: East Carolina Partnership to Address Health Disparities Through Engagement and research Training (2019-2021)  
Sponsor: PCORI (Eugene Washington Community Engagement Award) (\$250,000)  
Role: **Co-PI** with Dr. Winterbauer (Public Health)
- Title: Does Empagliflozin reduce cardiovascular risk factors and mortality in black patients with type 2 diabetes? (2019-2020)  
Sponsor: Brody Brothers Endowment Award, Brody School of Medicine, NC (\$30,000)  
Role: **Co-I**; PI: Dr. Mishriky (General Internal Medicine)
- Title: A randomized, cross-over, open-label, multi-center trial comparing the effect of insulin degludec and insulin glargine 100U-mL, with or without OADs in subjects with type 2 diabetes using flash glucose monitoring - the SWITCH PRO STUDY. (2018-2020)  
Sponsor: Novo Nordisk Pharmaceuticals (\$151,582)  
Role: **PI**
- Title: Collaboration to Improve BP in the US Black Belt Region: Addressing Triple Threat. (2016-2020)  
Sponsor: NHLBI & PCORI (\$1,673,732)  
Role: **Co-I** (ECU Site PI: Dr. Cummings)
- Title: Is vitamin B12 and homocysteine status associated with diabetic complications? (2016-2017)  
Sponsor: East Carolina University (\$10,000)  
Role: **Co-PI** with Dr. Pawlak (Nutrition)
- Title: Collaborative Care Management for Distress and Depression in Rural Diabetes (2014 – 2016)  
Sponsor: Bristol Myers Squibb Foundation. (\$450,000 + \$11,000 internal funding from ECU DRGS East-West Collaborative Grant competition).  
Role: **Co-I**; (Co-PIs: Drs. Cummings and Lutes)
- Title: Tele-TEAM care: Bringing the Healthcare Team to Needy Diabetic Patients in Underserved Rural Communities (2013-2016)  
Sponsors: Federal Office of Rural Health Policy/HRSA (\$750,000) & Kate B. Reynolds Charitable Trust (\$325,000)  
Role: **Co-I** (Co-PIs: Drs. Cummings and Russo)
- Title: PCARD - Preventing Complications in At-Risk Diabetics (2015-2016),  
Sponsor: Vidant Medical Foundation (\$15,000)  
Role: **Co-I/Medical Director** (PI: Dr. Messenger)
- Title: Create a Family Medicine Wellness Center for Interprofessional Education (IPE) and Practice (IPP) of Preventive Medicine. (2016)  
Sponsor: Brody School of Medicine, Non-recurring Funds Request For proposals (\$57,151)  
Role: **Co-I** (PI: Dr. Messenger)
- Title: Effect of calcium polycarbophil on type II diabetes mellitus control: a randomized double-blind study. (2010-2013)  
Role: **Co-I** (PI: Dr. Lee)

**Grants: Unfunded**

- Title: MindYourBP: A cluster randomized controlled trial of 90 primary care practices across three states and 1350 patients to compare the effectiveness of systolic blood pressure of 120 to systolic blood pressure of 140 (usual care) for high-risk patients in real-world clinical settings. (2022)  
Sponsor: PCORI. (Overall budget \$22,000,000; Subcontract to ECU \$3,339,865).  
Role: **ECU Site-PI** (Overall PI: Dr. Safford)
- Title: Scaling the National Diabetes Prevention Program in Underserved Areas. (2021)  
Sponsor: American Diabetes Association (\$125,000)  
Role: **PI**
- Title: Scaling the National Diabetes Prevention Program in Underserved Areas. (2021)  
Sponsor: American Diabetes Association (\$125,000)  
Role: **PI**
- Title: Strategies to Advance Safe & Effective Medication Experiences in Diabetes (SAFEMED). (2021)  
Sponsor: DHHS-AHRQ (\$421,796 Subcontract to ECU)  
Role: **Co-I** (Co-PIs: Drs. Levine & Cummings).
- Title: Intervening in Diabetes Education to Promote Patient Activation (IDEA). (2020)  
Sponsor: NIH (\$ 970,320 subcontract to ECU)  
Role: **ECU Site-PI** (PI: Dr. Shah)
- Title: Investigating DSMES completion barriers and facilitators to improve diabetes care in Medicaid recipients. (2020)  
Sponsor: NIH (R-21). (\$442,789)  
Role: **Co-I** (Dr. Luo).
- Title: Prediabetes-Periodontal Disease (PD2) Cohort Study Involving Adults from Rural Communities. (2019)  
Sponsor: NIDR/NIH (\$3,318,323.00)  
Role: **Co-I** (PI: Dr. Paquette)
- Title: A Community-Clinical Partnership Approach to Building Provider Capacity to Enhance Services for People with Prediabetes in a High-Risk Community. (2019)  
Sponsor: American College of Preventive Medicine (\$30,000)  
Role: **PI**
- Title: Periodontal Disease, Prediabetes and Incident Type 2 Diabetes in Adults Seeking Dental Care in Rural North Carolina and Wisconsin. (2018)  
Sponsor: NIH  
Role: **Co-I** (PI: Dr. Paquette)
- Steps to Good Health (2018)  
Sponsor: NIH (\$436,898.82)  
Role: **Co-I** (PI: Dr. Carels)
- Title: Exploring a threshold of health literacy associated with poor self-care activities and diabetes outcomes. (2017)  
Sponsor: Brody School of Medicine Internal Seed/Bridge Grant Program (\$23,750)

Role: **Co-PI** with Dr. Luo (Public Health)

- Title: A randomized, double-blind, placebo-controlled, parallel group, efficacy, and safety study of empagliflozin (10 mg, 25 mg) administered orally, once daily over 24 weeks in hypertensive black/African American patients with type 2 diabetes mellitus. Phase III clinical trial, (2015)  
Sponsor: Boehringer Ingelheim (\$29,456)  
Role: **PI**

#### **Grants: Submitted**

- Title: Team-based Care to Reduce Cardiovascular Risk in Rural Patients with Diabetes (2023 – 2027)  
Sponsor: American Heart Association Health Equity Research Network on Rural Health Disparities (\$2,798,057)  
Role: **PI**

#### **Nonfunded Research**

- Title: Impact of limited English proficiency on care transitions following discharge for patients with cardiovascular disease. (2022-2023)  
Role: **Faculty advisor** to third year medical students (Emily Park and Parth Panchal).
- Title: Professional Competencies for Diabetes Technology Use in the Care Setting (2021-2022)  
Role: **Co-PI** with Dr. Albanese-O'Neill
- Title: Willingness to Get a COVID-19 Vaccine and Reasons for Hesitancy Among Medicare Beneficiaries: Results From a National Survey. (2022)  
Role: **Co-I** (PI: Dr. Luo, Public Health)
- Title: Should baseline hemoglobin A1c or dose of SGLT-2i guide treatment with SGLT-2i versus DPP-4i in patients with type 2 diabetes? A meta-analysis and systematic review. (2020)  
Role: **Co-I** (PI: Dr. Mishriky)
- Title: Validation of a combined health literacy and numeracy instrument for patients with type 2 diabetes. (2017-2018)  
Role: **Co-I** (PI: Dr. Luo, Public Health)
- Title: Trends and Racial/Ethnic Disparities in Diabetic Retinopathy Among Adults with Diagnosed Diabetes in North Carolina, 2000-2015. (2018-2019)  
Role: **Co-I** (PI: Dr. Luo, Public Health)

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#### **Peer Reviewed Publications**

1. Cummings DM, Adams A, **Patil S**, Cherrington A, Halladay JR, Oparil S, Soroka O, Ringel JB, Safford MM. Treatment Intensity, Prescribing Patterns, and Blood Pressure Control in Rural Black Patients with Uncontrolled Hypertension. *J Racial Ethn Health Disparities*. 2022 Oct 21. Epub ahead of print. PMID: 36271193.
2. **Patil SP**, Albanese-O'Neill A, Yehl K, Seley JJ, Hughes AS. Professional Competencies for Diabetes Technology Use in the Care Setting. *Sci Diabetes Self Manag Care*. 2022 Oct;48(5):437-445. Epub 2022 Sep 1. PMID: 36048025.

3. Hughes AS, Albanese-O'Neill A, Seley JJ, Yehl K, Scalzo P, Rinker J, **Patil SP**. Building the 2022 Diabetes Technology Practice Competencies Using Modified Delphi Methodology. *Sci Diabetes Self Manag Care*. 2022 Oct;48(5):400-405. Epub 2022 Sep 1. PMID: 36048125.
4. **Patil SP**. Atypical Diabetes and Management Considerations. *Prim Care*. 2022 Jun;49(2):225-237. Epub 2022 Apr 22. PMID: 35595479.
5. Luo H, Qu H, Basu R, Rafferty AP, **Patil SP**, Cummings DM. Willingness to Get a COVID-19 Vaccine and Reasons for Hesitancy Among Medicare Beneficiaries: Results From a National Survey. *J Public Health Manag Pract*. 2022 Jan-Feb 01;28(1):70-76.
6. Cummings DM, **Patil SP**, Long DL, Guo B, Cherrington A, Safford MM, Judd SE, Howard VJ, Howard G, Carson AP. Does the Association Between Hemoglobin A<sub>1c</sub> and Risk of Cardiovascular Events Vary by Residential Segregation? The REasons for Geographic And Racial Differences in Stroke (REGARDS) Study. *Diabetes Care*. 2021 May;44(5):1151-1158. Epub 2021 May 6. PMID: 33958425.
7. Narducci D, **Patil S**, Zeitler M, Mounsey A. Is an underlying cardiac condition causing your patient's palpitations? *J Fam Pract*. 2021 March;70(2):60-68. PMID: 33760895.
8. Lutes LD, Cummings DM, Littlewood K, Le MT, Kirian K, **Patil S**, Solar C, Carraway M, Hambidge B. A Tailored Cognitive-Behavioural Intervention Produces Comparable Reductions in Regimen-Related Distress in Adults With Type 2 Diabetes Regardless of Insulin Use: 12-Month Outcomes From the COMRADE Trial. *Can J Diabetes*. 2020 Aug;44(6):530-536. PMID: 32792107.
9. Jarrod Uhrig, Stephanie Page, Basem Mishriky, **Shivajirao Patil**, Kerry Sewell, James Powell, Doyle Cummings. Should baseline hemoglobin A1c or dose of SGLT-2i guide treatment with SGLT-2i versus DPP-4i in patients with type 2 diabetes? A meta-analysis and systematic review. *Journal of Clinical Pharmacology*. 2020;60(8):980-991. PMID: 32396236.
10. Basem Mishriky, Carolos Mendez, James Powell, **Shivajirao Patil**, Doyle Cummings. Transitioning to non-insulin therapy in a patient with type 2 diabetes on high insulin doses. A case-study. *Journal of the American Association of Nurse Practitioners*. 2020;32(6):469-475. PMID: 32282568.
11. Luo H, **Patil SP**, Cummings DM, Bell RA, Wu Q, Adams AD. Health Literacy, Self-management Activities, and Glycemic Control Among Adults With Type 2 Diabetes: A Path Analysis. *J Public Health Manag Pract*. 2019 Apr 5. PMID: 30969274.
12. Williams ZS, **Patil SP**. Q-Tip: Improving Care for Patients With Diabetes Using a Disease Registry. *Am J Med Qual*. 2020 Feb 11. PMID: 32046498.
13. Luo H, Bell RA, Garg S, Cummings DM, **Patil SP**, Jones K. Trends and Racial/Ethnic Disparities in Diabetic Retinopathy Among Adults with Diagnosed Diabetes in North Carolina, 2000-2015. *N C Med J*. 2019 Mar-Apr;80(2):76-82. PMID: 30877152.
14. Cummings DM, Lutes LD, Littlewood K, Solar C, Carraway M, Kirian K, **Patil S**, Adams A, Ciszewski S, Edwards S, Gatlin P, Hambidge B. Randomized Trial of a Tailored Cognitive Behavioral Intervention in Type 2 Diabetes With Comorbid Depressive and/or Regimen-Related Distress Symptoms: 12-Month Outcomes From COMRADE. *Diabetes Care*. 2019 May;42(5):841-848. PMID: 30833367.
15. **Patil S.**, Craven K., Kolasa, K. Food Insecurity: How You Can Help Your Patients. *Am Fam Physician*. 2018 Aug;98(3):143-145a. PMID: 30215895.
16. Luo H, **Patil SP**, Wu Q, Bell RA, Cummings DM, Adams AD, Hambidge B, Craven K, Gao F. Validation of a combined health literacy and numeracy instrument for patients with type 2 diabetes. *Patient Educ Couns*. 2018 Oct;101(10):1846-1851. PMID: 29805071.
17. Lutes LD, Cummings DM, Littlewood K, Solar C, Carraway M, Kirian K, **Patil S**, Adams A, Ciszewski S, Hambidge B. COMRADE: A randomized trial of an individually tailored integrated care intervention for uncontrolled type 2 diabetes with depression and/or distress in the rural southeastern US. *Contemp Clin Trials*. 2018 July;70:8-14. PMID: 29680319.
18. **Patil, S.**, Craven K., Kolasa, K. Food Insecurity: It's More Common Than You Think. Recognizing it can improve the care you give. *Nutrition Today*. 52(5):248-257, September/October 2017.



19. Guesdon W, Kosaraju R, Brophy P, Clark A, Dillingham S, Aziz S, Moyer F, Willson K, Dick JR, **Patil SP**, Balestrieri N, Armstrong M, Reisdorph N, Shaikh SR. Effects of fish oils on ex vivo B-cell responses of obese subjects upon BCR/TLR stimulation: a pilot study. *J Nutr Biochem*. 2017 Nov 2;53:72-80. PMID: 29195133.
20. Sadhu AR, Healy AM, **Patil SP**, Cummings DM, Shubrook JH, Tanenberg RJ. The Time Is Now: Diabetes Fellowships in the United States. *Curr Diab Rep*. 2017 Sep 23;17(11):108. PMID: 28942533.
21. Hardee SG, Osborne KC, Njuguna N, Allis D, Brewington D, **Patil SP**, Hofler L, Tanenberg RJ. Interdisciplinary Diabetes Care: A New Model for Inpatient Diabetes Education. *Diabetes Spectr*. 2015 Nov;28(4):276-82. PMID: 26600730.
22. Cao Q, Lee TJ, Hayes SM, Nye AM, Hamrick I, **Patil S**, Steinweg KK. Are geriatric medicine fellows prepared for the important skills of hospice and palliative care? *Am J Hosp Palliat Care*. 2015 May;32(3):322-8. PMID: 24370716.
23. Qing, C., Lee, T., Austin, P., Zafar, M., & **Patil, S**. Increasing Residency Training of Goal-Oriented Treatment Options in Patients With Life-Limiting Illnesses. *Journal of Pain and Symptom Management*, 45 (2), 2013, 423-424.
24. Forjuoh SN, Huber C, Bolin JN, **Patil SP**, Gupta M, Helduser JW, Holleman S, Ory MG. Provision of counseling on diabetes self-management: are there any age disparities? *Patient Educ Couns*. 2011 Nov;85(2):133-9. PMID: 20863646

#### ***Oral/Poster Presentations & Published Abstracts***

1. Symposium Session is accepted for an oral presentation at the American Diabetes Association 83rd Scientific Session, San Diego, CA (June 2023)  
Symposium title: Implementing Technology into a Busy Practice: It Takes a Village!  
Presenters: **Shiv Patil**, Anastasia Albanese-O'Neill, Jane Jeffrie Seley, Allyson Hughes, Kirsten Yehl, Paulina Duker  
Dr. Patil's topic: Professional Competencies for Diabetes Technology Practice: Who Should Do What?
2. Symposium Session is accepted for an oral presentation at the Association of Diabetes Care & Education Specialists (ADCES) Annual Conference (August 2023)  
Session title: Use the ADCES Diabetes Technology Competencies to Improve Care and Education  
Presenters: Anastasia Albanese-O'Neill, **Shiv Patil**, Jane Jeffrie Seley, Allyson Hughes  
Dr. Patil's topic: Case Study: Applying the competencies to support CGM adoption.
3. Mishriky BM, Cummings DM, Fu Y, Halladay J, Jones WS, Boan A, Berkeley J, **Patil S**, Powell JR, Adams A, Irish W. Cumulative probability of mortality among non-Hispanic Black compared to non-Hispanic White individuals with type 2 diabetes on empagliflozin (Empa-AA): Real-World data. Accepted for poster presentation at American Diabetes Association 83rd Scientific Session. San Diego, CA (June 2023).
4. Mishriky BM, Cummings DM, Fu Y, Halladay J, Jones WS, Boan A, Berkeley J, **Patil S**, Powell JR, Adams A, Irish W. Heart Failure Hospitalizations among African American Compared with White Individuals with Type 2 Diabetes on Empagliflozin – Real-World Data. Poster presented at American Diabetes Association 82nd Scientific Session, New Orleans, LA (June 2022)
5. Monica Willson, Jacek Bednarz, Garrett Berk, **Shiv Patil**. Increasing Patient Mammogram Screening by Increasing Reminders by Providers and Staff. Oral presentation at Unified Quality Improvement Symposium. ECU-Vidant Health. February 2023.
6. Newsome R, Willson M, Eads H, Craven K, **Patil S**. Improving Diabetes Care Outcomes by Increasing Referrals to Diabetes Self-Management Education and Support (DSMES) Program. Oral presentation at Unified Quality Improvement Symposium. ECU-Vidant Health. February 2022.
7. **Shiv Patil**, Nancy Winterbauer, Courtney Klinger, Ronny Bell, Doyle Cummings. East Carolina Partnership to Address Health Disparities through Engagement Research Training. Poster Presentation at North America Primary Care Research Group (NAPCRG) Annual Meeting (virtual), November 2021

8. **Patil S.** Diabetes Related Gastroparesis. Oral presentation at the American Association of Diabetes Educators Annual Conference (Virtual), August 2021
9. Lewis L, Noe V, Craven K, **Patil S.** Collaborate to Connect Providers and Diabetes Prevention Programs. Oral presentation at the American Association of Diabetes Educators Annual Conference (Virtual), August 2021
10. **Patil S,** Craven K. Food Insecurity & Obesity Paradox: A Case Study. Oral presentation at Obesity Medical Association (OMA) Annual Conference (Virtual), April 2021
11. Luke K, **Patil S.** Improving Annual Diabetic Foot Exams. Oral presentation at 5th Annual Unified Quality Improvement Symposium, ECU/Vidant Health, February 2021
12. Height B, Duru M, **Patil S,** Sluder T, Paquette D. Bridging The Gap: Creating a Referral Pipeline between ECU Family Medicine and ECU SoDM for Patients with Type II Diabetes. Oral presentation at ECU School of Dental Medicine Research Day and UNC Adams School of Dentistry. February 2020.
13. Doyle M. Cummings, Sunidhi Singh, Alyssa Adams, **Shivajirao Patil,** Stephanie Hart, Andrea Cherrington, Jacquie Halladay, Joanna Bryan Ringel, Elizabeth Baquero, Monika Safford. Mild Cognitive Impairment and Barriers to Medication Taking in African American Patients with Co-Morbid Diabetes and Hypertension. American Diabetes Association's 80th Scientific Sessions, June 12 - 16, 2020, in Chicago, IL.
14. Kelly Smith, Toren Davis, Julia Jenkins, **Shivajirao Patil,** Amelia Buttolph, Priyanka Tulshian, et al. The APPLE Tool: Andragogy Principles Practice with a Learner-Centered Evaluation, 2019-2020 UNC Educational Collaborative. Oral session at STFM presentation at Annual Conference, August 2020.
15. Lewis L, **Patil S,** Noe V, Craven K. Making Connections: Resources to Help Patients Prevent Type 2 Diabetes. Oral presentation at Eastern AHEC. October 2020
16. **Patil S,** Messenger J, Craven K. Approaches to Glycemic Management of People with Type 2 Diabetes and Comorbid Conditions. American Association of Diabetes Educators Annual Conference, Houston, TX. August 2019
17. **Patil S,** Craven K, Messenger J, Selensky J, Carraway M. Use of Interprofessional Teams to Improve Glycemic Control at an Academic Primary Care Center. American Association of Diabetes Educators Annual Conference, Houston, TX. August 2019
18. Doyle M Cummings, Mackenzie Brown, Lesley Lutes, Bertha Hambidge, Marissa A Carraway, Shivajirao **P Patil,** Alyssa Adams, Kerry Littlewood, Sheila B Edwards, Peggy Gatlin. Reduction in Emotional Burden in Type 2 Diabetes Is Associated with Improved Medication Adherence: Results from COMRADE. Poster Presentation at the American Diabetes Association Annual Scientific Sessions, San Francisco, June 2019
19. Jarrod Uhrig, Stephanie Page, Basem Mishriky, **Shivajirao Patil,** Kerry Sewell, James Powell, Doyle Cummings. The Efficacy of Low vs. High FDA-Approved SGLT2 Inhibitor Dose Compared with DPP-4 Inhibitors: A Meta-analysis. Poster Presentation at the American Diabetes Association Annual Scientific Sessions, San Francisco, June 2019
20. Doyle M Cummings, **Shivajirao P Patil,** D Leann Long, April P Carson, Andrea Cherrington, Monika Safford, Suzanne Judd, Virginia J Howard, George Howard. Residential Segregation, Hemoglobin A1c, and Risk of Cardiovascular (CVD) Events: The Reasons for Geographic and Racial Differences in Stroke (REGARDS) Study. Poster Presentation at the American Diabetes Association Annual Scientific Sessions, San Francisco, June 2019
21. **Patil S,** Pawlak R, Thombare A, Baltaro R, Hicks K, Cummings DM. Relationship of Vitamin B12 and Homocysteine Status with Nephropathy and Neuropathy in Metformin-Treated Patients with Type 2 Diabetes. Diabetes 2018 Jul; 67(Supplement 1)
22. Littlewood K, **Patil S,** Cummings DM, Lutes LD, Hambidge B, Carraway M, Adams A, Solar C, Edwards S, Gatlin P. Cognitive Behavioral Intervention Produces Comparable Reductions in Regimen-Related Distress in Insulin Users and Non-Users: 12-Month Results from COMRADE. Abstract accepted for a

- moderated poster session at American Diabetes Association's Annual Scientific Sessions, Orlando, FL (Diabetes 2018 Jul; 67(Supplement 1))
23. Cummings DM, Lutes L, **Patil S**, Hambidge B, Carraway M, Littlewood K, Adams A, Solar C, Edwards S, Gatlin P. Randomized Trial of a Tailored Cognitive Behavioral Intervention in Type 2 Diabetes with Co-Morbid Depressive and/or Distress Symptoms: 12 Month Outcomes from COMRADE. Abstract accepted for a poster presentation at American Diabetes Association's Annual Scientific Sessions, Orlando, FL Diabetes 2018Jul; 67(Supplement 1)
  24. Lutes L, Cummings DM, Hambidge B, Carraway M, **Patil S**, Adams A, Solar C, Littlewood K, Edwards S, Gatlin P. RCT of Tailored Cognitive Behavioral Intervention Reduces Regimen-related Distress: Relationship to Change in Medication Adherence and Glycemic Control at 12 Month Follow-up. Diabetes 2018 Jul; 67(Supplement 1)
  25. **Patil S**, Doyle M. Cummings, Adams A, Rodebaugh L, Russo D, Jennings J, Sisneros J, Nye AM. Rural Team-based Diabetes Care: Telehealth Achieves Comparable Outcomes as Face-to-Face Care. ACCP Global Conference, Seattle (Oct 2018)
  26. Effectiveness of an Integrated Care Behavioral Intervention in Type 2 Diabetes with Depressive and/or Regimen-Related Distress Symptoms: Results from COMRADE Cummings DM, Lutes LD, **Patil S**, Hambidge B, Carraway M, Littlewood K, Adams A, Solar C, Edwards S, Gatlin P. Oral Presentation at North America Primary Care Research Group (NAPCRG) Annual Meeting, Chicago (Nov 2018)
  27. Validation of a new health literacy test for patients with Type 2 diabetes. Huabin Luo, PhD, **Shiv Patil**, MD, Qiang Wu, PhD, Ronny Bell, PhD, MS, Doyle Cummings, PharmD, Alyssa Adams, Bertha Hambidge, Kay Craven and Fei Gao. American Public Health Association Annual Meeting, San Diego (Nov 2018)
  28. **Patil SP**, Cummings DM, Adams A, Rodebaugh L, Russo D, Jennings J, Banks E, Sisneros J, Nye AM, Hardee J, Craven K. Rural Team-based Diabetes Care: Telehealth Achieves Comparable Outcomes as Face-to-Face Care. Presented as a moderated poster presentation at American Diabetes Association's Annual Scientific Sessions, San Diego, CA (June 2017)
  29. Hambidge B, Cummings DM, **Patil S**, Lutes L, Littlewood K, Carraway M, Adams A, Solar C, Edwards S, Boyd K, Gatlin P. Insulin-Using Patients Experience Comparable Reductions in Regimen-Related Distress from Behavioral Interventions. Dr. Hambidge presented as a moderated poster presentation at American Diabetes Association, Annual Scientific Sessions, San Diego, CA, (June 2017)
  30. Cummings DM, Lutes L, Hambidge B, **Patil S**, Littlewood K, Carraway M, Adams A, Solar C, Edwards S, Boyd K, Gatlin P. Stepped-Care Behavioral Intervention Reduces Regimen-Related Distress. Dr. Cummings presented as an oral presentation at American Diabetes Association, Annual Scientific Sessions, San Diego, CA, (June 2017)
  31. **Patil, S.**, Hardee, S., Armistead, N., Hollinger, M., Wu, Q., & Tanenberg, R. A Multidisciplinary Intervention to Prevent Inpatient Hypoglycemia. Oral presentation at Unified Quality Improvement Symposium, East Carolina Institute/Vidant Medical Center, Greenville, NC. March 2017.
  32. **Patil S**, Williams Z, Adams A, Blizzard J, Johnson A, Lewis M, Craven K, Messenger J, Daugherty J, Foltz J, Cummings D, Lake D. Improving Care of Patients with Diabetes Using a Diabetes Registry. Poster presentation at Unified Quality Improvement Symposium, East Carolina Institute/Vidant Medical Center, Greenville, NC. March 2016.
  33. **Patil, S.**, Hardee, S., Armistead, N., Hollinger, M., Wu, Q., & Tanenberg, R. A Multidisciplinary Intervention Reduced Inpatient Hypoglycemia. American Diabetes Association's Annual Scientific Sessions, New Orleans, LA. June 2016.
  34. Cummings DM, Adams A, Rodebaugh L, Russo D, Jennings J, Banks E, Sisneros J, Nye AM, **Patil S** Comparable Outcomes Associated with Telehealth-delivered Team Care for Diabetes in Rural Primary Care Practices. Thought Leaders Forum of the NC Health Care Information & Communications Alliance, Greenville, NC. October 2016

35. Carraway, M., Lutes, L., Cummings, D. M., Solar, C., & **Patil, S.** A collaborative stepped care intervention for Type 2 Diabetes Mellitus, Depression, and Diabetes-Related Distress. *Behavioral Medicine*. 2016.
36. Boyd, K., Lutes, L., **Patil, S.**, & Cummings, D. M. Relationship between Diabetes Related Distress and Glycemic Control in Type 2 Diabetes: Baseline Results from the COMRADE Trial. American Diabetes Association's Annual Scientific Sessions, New Orleans, Louisiana. June 2016.
37. Hambidge, B., Cummings, D. M., Lutes, L & **Patil, S.** The Consequences of Treatment Intensification: Diabetes and Regimen Related Distress in Insulin-treated vs. Oral Hypoglycemic treated Patients with Uncontrolled Type 2 Diabetes. American Diabetes Association's Annual Scientific Sessions, New Orleans, Louisiana. June 2016.
38. Cummings, D.M., Lutes, L., Kirian, K., Littlewood, K., Hambidge, B., Solar, C., **Patil, S.**, Gatlin, P. A Randomized Trial of Integrated Care for Distress and Depression in Uncontrolled Diabetes: Design, Rationale, and Baseline Findings. North America Primary Care Research Group (NAPCRG) Annual Meeting, Cancun, Mexico. 2015.
39. Nasrallah, L., Jennings, J., Cummings, D. M., Russo, D., & **Patil, S.** Promoting Lifestyle and Behavioral Health for Uncontrolled Diabetic Patients in Underserved Rural Communities via Telehealth. *Academy of Nutrition and Dietetics Journal*. 2015.
40. **Patil, S.**, Hardee, S., Armisted, N., Crickmore, K., & Tanenberg, R. Hypoglycemia Task Force: A Quality Improvement Initiative to Prevent/Reduce Hypoglycemia at Vidant Medical Center. Abstract published in American Diabetes Association's *Diabetes Journal*. June 2015.
41. **Patil, S.**, Lee, T., Cao, Q., & Nye, A. Effects of Calcium Polycarbophil on Glycemic Control, Weight, Lipid Panel, and Blood Pressure in Type 2 Diabetes Mellitus: A Randomized, Controlled Study. American Diabetes Association, San Francisco, California. 2014.

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### ***Book Chapters under Review for Publication***

1. Patil S, Thombare A. Prader Willi Syndrome. *The 5-Minute Consult*. (Submitted December 2022)
2. Patil S. Striae Distensae. *The 5-Minute Consult*. (Submitted December 2022)

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### ***Invited Presentations***

- **A-Z Diabetes Boot Camp (ECU & Eastern AHEC), Greenville, NC** (2018, 2021, 2022, 2023)  
Topic: Diabetes Chronic Complications- Macrovascular, Lipids and Cardiovascular Risk Reduction
- **The 34<sup>th</sup> Annual Recent Developments in Internal Medicine (RDIM) Conference, Atlantic Beach, NC (October 2022)**  
Topic: Preventing Type 2 Diabetes
- **The Community Practitioner Program (CPP) Annual Meeting & Lifestyle Medicine Summit, Virtual** (September 2021)  
Topic: Diabetes Prevention Project: A North Carolina Approach
- **Diabetes Technology Summit: Integrating Technology into Practice, Chicago, IL** (October 2019)  
Topic: AAFP Presents – Professional to Personal CGM (Panel Discussion)
- **The 4<sup>th</sup> International Conference on Obesity and Chronic Diseases, San Francisco, CA** (July 2019)  
Topic: Food Insecurity: How You Can Help Your Patients

- **Department of Physiology, Brody School of Medicine, Greenville, NC** (March 2017, 2018, 2019)  
Topic: Clinical applications of basic concepts in metabolism: Diabetes
  - **Coastal Carolina Diabetes & Endocrinology Day, Greenville, NC** (December 2015)  
Topic: Geriatrics and Diabetes Mellitus.
  - **Coastal Carolina Diabetes & Endocrinology Day, Greenville, NC** (December 2017)  
Topic: Latent Autoimmune Diabetes of Adults & Ketosis Prone Diabetes Mellitus
  - **Family Medicine Grand Rounds, East Carolina University**
    - 1) Approach to Patients with Atypical Diabetes (November 2022)
    - 2) Diabetes Prevention Program (DPP). *Co-presented with Kay Craven, MPH, RDN and a patient with prediabetes* (November 2021)
    - 3) Diabetes and Patient-Engaged Research. *Co-presented with Dr. Nancy Winterbauer* (November 2020)
    - 4) Diabetes and Pregnancy (November 2019). *Co-presented with Dr. Kelley Haven*
    - 5) The 2018 ADA-EASD Consensus Report on Management of Type 2 Diabetes in Adults: A View from Primary Care” (November 2018)
    - 6) My Pancreas Runs on Batteries: Continuous Glucose Monitors & Insulin Pumps  
*Co-presented with Dr. Amy Howell (Down East Diabetology, Greenville, NC)* (November 2017)
    - 7) Latent Autoimmune Diabetes in Adults (LADA): Its More Common Than You Think. (March 2017)
    - 8) "Pearls" grand Rounds. One of the faculty selected by residents to present. (June 2016)
    - 9) Diabetes and Pregnancy: An Overview for Primary Care Physicians. (March 2016)
    - 10) When Metformin is not enough: Evidence based review of secondary therapies for Type 2 Diabetes (April 2014). *Co-presented with Dr. Doyle Cummings.*
  - **Endocrinology Grand Rounds, East Carolina University**
    - 1) Myxedema Coma (Sept 2011)
    - 2) Latent Autoimmune Diabetes of Adults & Maturity Onset Diabetes of the Young (Dec 2013)
    - 3) Ketosis Prone Diabetes (2014)
  - **School of Rural Public Health, Texas A&M Health Science Center** (April 2010)  
Epidemiology Basics & Environmental Epidemiology Case Study
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### ***Professional Memberships***

- 1) American Academy of Family Physicians (AAFP), (Jul 2010 – present)
  - 2) North Carolina Academy of Family Physicians (NCAFP), (Jul 2010 – present)
  - 3) American Diabetes Association (ADA), (May 2011 – present)
  - 4) Association of Diabetes Care and Education Specialists (ADCES), (2015 – present)
  - 5) Society of Teachers of Family Medicine (STFM), (2019 – present)
  - 6) North America Primary Care Research Group (NAPCRG), (2017 – present)
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### ***Professional & University Service***

1. **East Carolina University**
  - a) ECU Faculty Senator, East Carolina University, 2022 – present
  - b) Student scholarships, fellowships, and financial aid committee member, 2020 – 2021

2. **Division of Health Sciences, East Carolina University**
  - a) College of Nursing, Doctor of Nursing Practice (DNP) Advisory Board member; 2018-2019
3. **Brody School of Medicine, East Carolina University**
  - a) Faculty Senator, 2022 – present
  - b) Unit Code Committee, 2022 - present
  - c) Admissions Screening Committee member, 2020 -present
  - d) Clinical Research Poster judge for Internal Medicine Research Day, 2017 to 2019
4. **Department of Family Medicine**
  - a) Personnel Committee Chair, 2022 – present
  - b) Personnel Committee Member, 2017 – present
  - c) Pirate Module Clinic Leader, ECU Family Medicine Center, 2018 - 2022
  - d) Search and Interview Committees of Various Faculty and Staff positions, 2014 – present
5. **ECU Health Medical Center:**
  - a) Diabetes Best Practice Steering Committee member, 2013 – present
  - b) Hypoglycemia Taskforce, Co-Chair, 2013-2015
  - c) Annual GME Research Week, Clinical Research Poster Judge (2022, 2023)
6. **American Academy of Family Physicians**
  - a) I was invited by AAFP to represent family medicine during the Diabetes Technology Summit on Integrating Technology into Practice. My topic was “AAFP Presents – Professional to Personal CGM”. Chicago, October 2019
7. **Association of Diabetes Education & Care Specialists (ADCES, formerly AADE)**
  - a) Member, ADCES Research Committee (January 2023 – present)
  - b) Co-Chair, ADCES Diabetes Technology Domains & Competencies Project Committee (2021-2022)
  - c) Co-Chair, ADCES22 Annual Conference Planning Committee on Diabetes & Cardiometabolic Continuum & Diabetes Prevention (2020-2021)
  - d) Member, ADCES Continuing Medical Education Review Committee (2020 – 2022)
  - e) Lead Physician, job task analysis or role delineation study for Board Certification in Advanced Diabetes Management (BC-ADM) (2019-2021)
8. **Society of Teachers of Family Medicine**
  - a) Mentor for a New Faculty Scholar (2022)
9. **Journal Reviews**
  - a) Journal of Diabetes Science and Technology (April 2023)
  - b) BMC Nursing (August 2022)
  - c) Journal of Family Practice (April 2022)
  - d) American Family Physician Journal (August 2021)
  - e) Family Medicine and Community Health Journal (May 2020)
  - f) Journal of Diabetes and Its Complications (2020)
  - g) Journal of Racial and Ethnic Health Disparities (2020)
  - h) North Carolina Medical Journal (2017)
  - i) American Family Physician Journal (August 2017)
10. **Conference Abstract Reviews**
  - a) North America Primary Care Research Group (NAPCRG) Annual meeting (2019, 2021)

- b) Society of Teachers of Family Medicine (STFM) Annual Meeting (2020)
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### ***Honors & Awards***

- 1) Appointed as the Diabetes Prevention Physician Champion for the state of North Carolina by the North Carolina Medical Society and American Medical Association (2021-2022)
  - 2) Health Care Provider Award (2020). This state level award is presented annually by the North Carolina Diabetes Advisory Committee to a health care provider for outstanding work in diabetes prevention and management.
  - 3) Fellow of American Academy of Family Physicians (FAAFP), 2019
  - 4) The National Committee for Quality Assurance (NCQA) Diabetes Provider Recognition for delivering high quality diabetes care, 2018-2021 & 2022 - 2025
  - 5) Scholarship (\$4000) from American Board of Family Medicine to pursue NAPCRG Grant Generation Project Fellowship, 2018-2019
  - 6) ECU Health Sciences Author Recognition Award, 2015, 2017, 2018, 2019, 2020, 2021, 2022
  - 7) ECU Family Medicine Annual Clinical Services Award for Exemplary Service in the Care of Patients, March 2016
  - 8) Honorary Mention Award, Graduate Medical Education Annual Research Day, ECU Health Medical Center, May 2014
  - 9) Outstanding Graduating Resident for Best Exemplifying the Principles of Women's Health Program, ECU Family Medicine, June 2013
  - 10) Dean's Award for Academic Excellence, School of Rural Public Health, TX 2008-2009
  - 11) Dean's Award for Academic Excellence, School of Rural Public Health, TX 2009-2010
  - 12) Fifth rank in the Order of State University Merit at Final Year of Medical School, India 2004
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### ***Computer Skills***

Microsoft Office, Statistical Software (STATA, SPSS)

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### ***Volunteering***

Attending Physician, Greenville, NC Community Shelter Clinic

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### ***References***

Available on request

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