

ELIZABETH STANLEY

Email: stanlee2@ccf.org

Education

Undergraduate

09/2014 - 06/2018

Princeton University, Princeton, New Jersey

B.S.E., Chemical and Biological Engineering, Summa Cum Laude

Advisor: Michael Hecht

Thesis: Enhancing Expression of Hydrophobic Peptides in *E. coli* Via Fusion to Novel Proteins

Honors: Phi Beta Kappa Honor Society, Tau Beta Pi Engineering Honor Society

Prizes: Merck & Company Outstanding Senior Thesis Award, Shapiro Award for Academic Excellence

Graduate

09/2020 - 05/2024

Case Western Reserve University, Cleveland, Ohio

M.P.H.

09/2020 - 05/2025

Cleveland Clinic Lerner College of Medicine, Cleveland, Ohio

M.D.

Research Experience

Ongoing

07/2023 - present

Thesis Student, Dept. of Center for Value Based Care Research, Cleveland Clinic

Factors Associated with Treatment of Female Sexual Dysfunction and Erectile Dysfunction Among Primary Care Patients

Mentor: Kathryn Martinez, PhD, MPH

- Designed and completed study using data from the electronic health record to identify patient factors associated with treatment of sexual dysfunction via descriptive statistics and mixed effects logistic regression analysis.
- Designed survey-based study to assess clinician attitudes and knowledge about sexual dysfunction.

07/2021 - present

Research Student, Dept. of Female Sexual Health Division, University Hospitals

Mentor: Rachel J Pope, MD, MPH

- Characterized female sexual health programs in the United States, services offered, and training of sexual health providers using internet search methodology.
- Characterized specialized menopause clinics in the Midwest, services offered, and training of providers using internet search methodology.
- Analyzed risk factors of female sexual dysfunction using community-based survey.

08/2023 - present

Research Student, Dept. of Center for Value Based Care Research, Cleveland Clinic

A qualitative analysis of patients' and physicians' perceptions, attitudes, and behaviors toward billing for electronic communication

Mentor: Jordan Alpert, PhD

- Analyzed data from semi-structured interviews of patients about new institutional policy to charge for certain MyChart messages.

Completed

06/2018 - 06/2020

Clinical Research Assistant, Dept. of Orthopaedic and Arthritis Centers for Outcome Research, Brigham and Women's Hospital.

Mentor: Elena Losina, PhD, Jeffrey Katz, MD, MSc

- Used the Osteoarthritis Policy Model, a Monte Carlo microsimulation, to analyze cost effectiveness of treatments related to osteoarthritis.
- Coordinated analyses using the Osteoarthritis Policy Model, trained research assistants on use of the Model.
- Conducted patient surveys regarding patient perceptions and use of antibiotic prophylaxis prior to dental procedures after total joint replacements.

06/2020 - 09/2020

Research Student, Dept. of Lerner Research Institute, Cleveland Clinic.

Mentor: Margot Damaser, PhD

- Developed computer simulation of wireless bladder volume sensor using COMSOL Multiphysics.
- Performed sensitivity analyses using computer simulation to identify device parameters of interest for experimental optimization.

07/2023 - 01/2024

Research Student, Dept. of Urogynecology, Cleveland Clinic

Healthcare Resource Utilization Following Minimally Invasive Sacrocolpopexy: Impact of Concomitant Rectopexy.

Mentor: Lannah Lua-Milland, MD

- Collected data from electronic charts for project comparing healthcare utilization following minimally-invasive sacrocolpopexy with and without combined rectopexy.

Publications

Articles

Zarzhitsky S, Jiang A, Stanley EE, Hecht M. "Harnessing synthetic biology to enhance protein expression". *Protein Science*, 2020; 29(8), 1698-1706. PMID: 32567134. doi: 10.1002/pro.3907

Stanley EE, Trentadue TP, Smith KC, Sullivan JK, Thornhill TS, Lange J, Katz JN, Losina E. "Cost-effectiveness of dental antibiotic prophylaxis among total knee arthroplasty recipients with type II diabetes mellitus". *Osteoarthritis & Cartilage Open*, 2020; 2(4), 100084. PMID: 36474886. 10.1016/j.ocarto.2020.100084

Chen AT, Bronsther CI, Stanley EE, Paltiel AD, Sullivan JK, Collins JE, Neogi T, Katz JN, Losina E. "The value of total knee replacement in patients with knee osteoarthritis and a body mass index of 40 kg/m² or greater: A cost-effectiveness analysis". *Annals of Internal Medicine*, 2021; 174(6), 747-757. PMID: 33750190. 10.7326/M20-4722

Katz JN, Song S, Stanley EE, Lenhard NK, Silva GS, Chen AT, Thornhill TS, Lange J, Collins JE, Selzer F, Losina. "Factors associated with use of antibiotic prophylaxis following dental procedures in total joint replacement recipients". *Osteoarthritis & Cartilage Open*, 2021; 3(4), 100217. PMID: 36474765. 10.1016/j.ocarto.2021

Huizinga JL*, Stanley EE*, Sullivan JK, Song S, Hunter DJ, Neogi T, Edwards RR, Katz JN, Losina E. "Societal cost of opioid use in symptomatic knee osteoarthritis patients in the United States". *Arthritis Care & Research (Hoboken)*,

2022; 74(8), 1349-1358. PMID: 33629485. 10.1002/acr.24581

Stanley EE, Pope RJ. "Characteristics of female sexual health programs and providers in the United States". *Sexual Medicine*, 2022; 10(4), 100524. PMID: 35605556. 10.1016/j.esxm.2022.100524

Lua-Mailland LL, Stanley EE, Yao M, Paraiso MFR, Wallace SL, Ferrando CA. "Healthcare Resource Utilization Following Minimally Invasive Sacrocolpopexy: Impact of Concomitant Rectopexy". *International Urogynecol Journal*, 2024. PMID: 38416154. 10.1007/s00192-024-05748-w

OpEd

Mitchell J, Stanley EE, Ahrendt H. "HB 480 is not just about abortion. ". *Cleveland Plain Dealer*, 2022

Scientific Presentations

Stanley EE, Sullivan JK, Huizinga JL, Collins JE, Katz JN, Losina E. "Lifetime Direct Medical and Indirect Cost of Knee Osteoarthritis: Impact of Pain and Structural Severity" Brigham and Women's Hospital, The American College of Rheumatology/Association of Rheumatology Professionals Annual Meeting, 11/2019 (Poster)

EE Stanley, K Connor, RJ Pope "Why should pelvic floor physical therapy be included in treatment of vestibulodynia?" CCLCM, International Society for the Study of Women's Sexual Health, 03/2023 (Poster)

Stanley EE, Pfoh E, Lipold L, Martinez K "Factors Associated with Treatment of Female Sexual Dysfunction and Erectile Dysfunction Among Primary Care Patients" CCLCM, Society of General Internal Medicine Annual Meeting, 05/2024 (Poster)

Stanley EE, Pfoh E, Lipold L, Martinez K "Factors Associated with Treatment of Female Sexual Dysfunction and Erectile Dysfunction Among Primary Care Patients" CCLCM, AcademyHealth Annual Research Meeting, 07/2024 (Oral Presentation)

Committee Service

CCLCM

Diversity, Equity, and Inclusion in Research Education Action Group, Cleveland Clinic Lerner College of Medicine, 2020 - present

Diversity Dinner Steering Committee, Cleveland Clinic Lerner College of Medicine, 2021 - 2022

Extracurricular Activities and Interests

Leadership

- Medical Students for Choice: Student Leader
- OB/GYN Student Interest Group: Student Leader
- Minority Maternal Health Initiative Elective, Student Leader

Teaching

- OB/GYN Third Year Simulation Workshop Teacher

Community Service

- Health Within Reach Pap Smear Clinic Volunteer
- Preterm Clinic Escort