



CURRICULUM VITAE

Andrew G. Chapple

Current Title: Assistant Professor in Biostatistics; Assistant Professor in Orthopedics

Business Address:

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About: Dr. Chapple is an expert in adaptive clinical trial designs, particularly Bayesian methods. His 2019 paper "A hybrid Phase I-II/III clinical trial design allowing for dose re-optimization in Phase III" proposed a new framework for seamless drug development through the three stages of clinical trial design. This paper was recognized globally by the statistical community when it received the award for "Best Paper" from Biometrics, a top tier statistical journal.

Dr. Chapple has produced many new trial designs and methods, which are accompanied with user-friendly R packages. Dr. Chapple trained under Dr. Peter Thall at MD Anderson, who is a pioneer in Bayesian adaptive trials. He later refined these skills working with cancer researchers from other institutions. Dr. Chapple's adaptive trial designs were used to dose-find in pediatric brain tumors in a trial conducted at Harvard and the Dana Farber Cancer Center.

Dr. Chapple has designed hundreds of studies and has supported many research departments at LSUHSC including: Orthopedics, OBGYN, Hematology Oncology, Dermatology, Oral Surgery, Endodontics, Cancer, Virology, Cellular Biology, Inflammation, and treatment disparities research. As a joint professor in Orthopedics, Dr. Chapple works on large scale electronic records databases which requires processing longitudinal information from patients on hospital encounters, diagnoses, procedures, prescriptions, and lab values.

Education:

Undergraduate:

B.S. Louisiana State University, May 2012
Major: Mathematics

Graduate:

M.Ap.St, Louisiana State University, May 2014
Major: Applied Statistics

Ph.D., Rice University, May 2018
M.S., Rice University, May 2018
Major: Statistics

Academic, Professional, and Research Appointments:

Lab Lecturer, Department of Experimental Statistics, Louisiana State University, 2012-2014

Teaching Assistant, Department of Statistics, Rice University, 2014-2016

Trainee, Department of Biostatistics, MD Anderson Cancer Center, 2015-2018

Biostatistics Assistant Professor, School of Public Health, Louisiana State University, School of Public Health, New Orleans, LA (2018-Present)

Biostatistics Consultant, The Bioinformatics CRO (2018-Present)
<https://www.bioinformaticscro.com/>

Paid Journal Article Reviewer, JAMA Network Open, 2018-Present

Statistics Consultant, Chapple Statistical Solutions (2021-Present)

Membership in Professional Organizations:

Society of Clinical Trials (2018-2019)

International Biometric Society (2016-2020, 2022-Present)

Awards and Honors:

2019 Best Paper in Biometrics by an IBS Member:

Best Paper in Biometrics by an IBS Member

The award is given by the IBS biennially to one Biometrics paper from each of the previous two years identified by the co-editors as being of the highest quality and importance.

- 2020 – Andrew G. Chapple and Peter F. Thall | Title: A hybrid Phase I-II/III clinical trial design allowing dose re-optimization in Phase III ([75: 371-381, 2019](#))
- 2020 – John D. Rice, Robert L. Strawderman, and Brent A. Johnson | Title: Regularity of a renewal process estimated from binary data ([74: 566-574, 2018](#))

[HTTPS://WWW.BIOMETRICSOCIETY.ORG/ABOUT/HONORS-AWARDS](https://www.biometricsociety.org/about/honors-awards)

NIH T32: Cancer Training Grant 2014-2016

OFDA 2016 Scholarship

Travel Award, O'Bayes Conference, 2017. Awarded for "Bayesian variable selection for a semi-competing risks model with three hazard functions.

LSUHSC Faculty Assembly Service Award 2021

TEACHING EXPERIENCE AND RESPONSIBILITIES

Formal Course Responsibilities

Course director for several 3 credit hour BIOS courses. Responsibilities include lecturing, grading, and developing syllabuses, homework, and tests.

Fall 2018:

BIOS 6318 – Nonparametric Statistics (3 hours)

Spring 2019:

BIOS 6310 – Applied Bayesian Methods (3 hours)

Fall 2019:

BIOS 6210 – Categorical Data Analysis (3 hours)

BIOS 6300 – Statistical Computing (3 hours)

Spring 2020:

BIOS 7318 – Statistical Learning (3 hours)

BIOS 6400 - Independent Study - Erick Nguyen (1 hour)

BIOS 6400 – Independent Study – Neil Rosenbaum (1 hour)

Fall 2020:

BIOS 6210 – Categorical Data Analysis (3 hours)

BIOS 6318 – Nonparametric Statistics (3 hours)

Spring 2021:

BIOS 6310 – Applied Bayesian Methods (3 hours)

Fall 2021:

BIOS 6210 – Categorical Data Analysis (3 hours)

Spring 2022:

BIOS 6300 – Statistical Computing (3 hours)

Summer 2022:

BSPH 6320 Data analysis in Public Health (3 hours)

Informal Course Responsibilities

Guest Lecture, Louisiana Cancer Center, Department of Oncology.
(2 hours, 2019)

Touro Hospital, Department of OBGYN.
(1 hour, 2019)

Children's Hospital
(2 hours, 2019)

Woman's Hospital
(1 hour, 2019-2021)

Undergraduate, Medical, or Graduate Students Trained:

Neil Rosenbaum – MS Biostatistics - May 2021. “Proxy variables reduce bias due to unmeasured confounders associated with dichotomous outcomes: A simulation study.”

Ravan Moret – MS Biostatistics - May 2021. “Analysis of the effects of adjusting for binary non-confounders in a logistic regression model: A simulation study”

Erick Nguyen - MS Biostatistics - May 2021. “Exploration of Propensity Score Adjustment in Logistic Regression via Simulation Study.”

Alexandra Curtis – PhD Biostatistics, Iowa University – May 2021.

Soham Mahato – PhD Biostatistics. Expected graduation August 2022.

Thesis and Dissertation Committees:

Wentao Cao – PhD Biostatistics Committee

RESEARCH AND SCHOLARSHIP

Grants and Contracts: *(note role on grant or clinical trial; i.e. PI, co PI, consultant, etc.)*

Funded

OREF - JRGOS Health Disparities Research in Orthopedics: Jennifer Simkin (PI)

Dates: 07/01/20 - 06/30/21

Title: Integrating clinical, social and biological data to assess TKA risk

Role: CO-PI and Statistician

Effort: 0%

Direct Costs: \$10,000

NSF – Office of Advanced Cyberinfrastructure: Christopher Taylor, PI

Dates: 07/15/20 - 06/30/22

Title: CC* Compute: Compute Cluster for Computational Sciences at Louisiana State University Health Sciences Center

Role: CO-PI

Effort: 0%

Direct Costs: \$399,458.00

Selected non-funded applications (>10 total):

National Institute of Health, PA-20-185
NIH Research Project Grant (Parent R01 Clinical Trial Not Allowed)
Dates: 07/01/2021 – 06/30/2026
Application Identifier: 856555
Title: Bayesian Methods for Orthopedic Electronic Health Record Databases
Role: PI
Effort: 40% over years 1-3, 14% effort over years 4-5
Direct and Undirect Costs: \$220,500.00
Percentile: Not Discussed
Impact Score: Not Discussed

National Institute of Health, PA-19-056
Parent R01 Project Grant
Dates: 04/01/2020-03/31/2025
Application Identifier: 549863
Title: Hybrid Multiphase Designs for Treatment Refinement and Evaluation
Role: PI
Effort: Year 1 – 6 Cal Mo, Year 2 – 5.4 Cal Mo, Year 3-5 – 5.04 Cal Mo
Direct and Undirect Costs: \$385, 668.00
Percentile: 46
Impact Score: 54

National Institute of Health, 1R21DK12288-01: Sunyoung Kim (PI)
Title: Defining prognostic biomarkers for necrotizing enterocolitis
Role: Biostatistician
Effort: 2%
Direct Costs: \$300,000

Current Contracts: 60% Effort Coverage

LSUHSC OBGYN Department (Nov 2018-Present): 15% Effort

LSUHSC Orthopedics Department (May 2019-Present): 25% Effort

Woman's Hospital Baton Rouge (Jan 2020-Present): 10% Effort

LSUHSC Department of Oral and Maxillofacial Surgery (Jan 2021): 10% Effort

Journal Publications:

Refereed

1. Han, K.J., Pitman, W.D., **Chapple, A.** (2014). Moisture Concentration Variation of Silages Produced on Commercial Farms in the South-Central USA. *Asian-Australasian Journal of Animal Sciences*. 2014;27(10):1436-1442.
2. **Chapple, A.** (2016) A Bayesian Reversible Jump Piecewise Hazard approach for modeling rate changes in mass shootings. *Journal of Economics and Econometrics*. 59 (3). 19-31.
3. Liru, H., **Chapple, A.G.**, Liao, Z., Komaki, R., Thall, P.F., Lin SH. (2016) Bayesian regression analyses of radiation modality effects on pericardial and pleural effusion and survival in esophageal cancer. *Journal of Radiation Oncology*. 121 (1): 70-74.
4. **Chapple, A.G.**, Vannucci, M., Thall, P.F., Lin, S.H. (2017). Bayesian variable selection for a semi-competing risks model with three hazard functions. *Journal of Computational Statistics and Data Analysis*. 112: 170-185.
5. **Chapple, A.G.** (2018). Modeling ISIL terror attacks and their fatality rates with a Bayesian reversible jump marked point process. *Journal of Economics and Econometrics Society*. 61(3): 1-14.
6. **Chapple, A.G.**, Thall, P.F. (2018). Subgroup-specific dose finding in phase I clinical trials based on time to toxicity allowing adaptive subgroup combination. *Journal of Pharmaceutical Statistics*. 1-16.
7. Peak T.C., **Chapple, A.G.**, Coon, G., Hemal, A. (2018). Utilizing a Semi-Competing Risk Model to Predict Perioperative and Oncologic Outcomes after Radical Cystectomy. *British Urology Journal*. 10 (11): 317-326
8. **Chapple, A.G.**, Thall, P.F. (2018). A hybrid phase I-II/III clinical trial design allowing dose re-optimization in phase III. *Biometrics*. 1– 11. <https://doi.org/10.1111/biom.12994>
9. Peak, T., Russell, G.B., Dutta, R., Rothberg, M., **Chapple, A.G.**, Hemal, A.K. (2018). An NCDB-based Nomogram to Predict Lymph Node Metastasis in Penile Cancer. *BJU International*. 123. 10.1111/bju.14652.
10. Christensen, B.J., **Chapple, A.G.**, King, B.J. (2018). How much weight loss can be expected after treating mandibular fractures? *Journal of Oral and Maxillofacial Surgery*.
11. **Chapple, A. G.**, Wojcik, J. J., & McDaniel, L. S. (2019). A regression based phase I clinical trial for late-onset toxicities without clinician elicitation. *Contemporary clinical trials communications*, 14, 100327. doi:10.1016/j.conctc.2019.100327

12. Peak, T., Su, Y., **Chapple, A.G.**, Chryr., J., Pollack, J., Deep, G. (2019). Syntaxin 6: A novel predictive and prognostic biomarker in papillary renal cell carcinoma. *Scientific Reports*. 9 (1): 3146.
13. Christensen, B.J., **Chapple, A.G.**, King, B.J. (2019). What is the Effect of Treating Mandibular Fractures on Weight and Prealbumin? *Journal of Oral and Maxillofacial Surgery*. 77 (6): 1-6.
14. **Chapple, A.G.**, Blackston, J.W. (2019). Finding benefit in n-of-1 trials. *JAMA Intern Med*. 179(3):453-454.
15. Peak, T. C., Russell, G. B., Dutta, R., Rothberg, M. B., **Chapple, A. G.** and Hemal, A. K. (2019). A National Cancer Database-based nomogram to predict lymph node metastasis in penile cancer. *BJU International*. 123: 1004-1010. [10.1111/bju.14652](https://doi.org/10.1111/bju.14652)
16. **Chapple, A. G.** and Thall, P. F. (2019). Rejoinder to “A hybrid phase I-II/III clinical trial design allowing dose reoptimization in phase III”. *Biometrics*.
17. Simkin, J., Bronstone, A., **Chapple, A.**, Clement, R.C., Cohen-Rosenblum, A., Czarny-Ratajczak, M., Dasa, V. Hilliard, C., King, A., Krause, P., and Marrero, L. (2019). Letter to the Editor: Editorial: Beware of studies claiming that social factors are “independently associated” with biological complications of surgery. *Clinical Orthopedics and Related Research*. 477 (12): 2807-2809
18. Blackston, J.W., **Chapple, A.G.**, McGree, J.M., McDonald, S.N., Nikles, J (2019). Comparison of aggregated N-of-1 trials with parallel and crossover randomized controlled trials using simulation studies. *Healthcare*, 7, 137.
19. **Chapple, AG**, Peak, T, Hemal, A. A novel Bayesian continuous piecewise linear log-hazard model, with estimation and inference via reversible jump Markov chain Monte Carlo. *Statistics in Medicine*. 2020; 1– 15. <https://doi.org/10.1002/sim.8511>
20. Cameron JE, Dennis DC, Herrel NR, **Chapple AG**, and Hagensee ME. (2020) Risk of abnormal cervical cytology in HIV-infected women testing positive for both human papillomavirus and Epstein-Barr virus in genital tract specimens. *Cancer Causes and Control*. 31(4):365-375.
21. **Chapple, A.G.** (2020). Bayesian subgroup clustering in phase I clinical trials. *SAGE Research Methods Cases*. doi: <https://dx.doi.org/10.4135/9781529742657>
22. Silver V, **Chapple A**, Feibus A, Beckford J, Halapin N, Delphi B, Gordon A, Baumgartner W, Vignes S, Clark C, Kambok S, Lim S, Mackey S, Seal P, Kanter J, Bell C, Clement M. Clinical Characteristics and Outcomes Based on Race of Hospitalized Patients with COVID-19 in a New Orleans Cohort. Accepted for publication, *Open Forum Infect Dis*.
23. Chapple, A. G., & Thall, P. F. (2020). Comparison of Phase I-II designs with parametric or semi-parametric models using two different risk-benefit trade-off

criteria. *Contemporary clinical trials*, 97, 106099.
<https://doi.org/10.1016/j.cct.2020.106099>

24. Block MS, Christensen BJ, Mercante D, **Chapple AG**. (2020). What factors are associated with implant failure? *Journal of Oral and Maxillofacial Surgery*.
<https://doi.org/10.1016/j.oms.2020.08.023>
25. Pratt, A., Scheinuk, J., Lopez, D., Mesa, C. J., Mahato, S., **Chapple, A. G.**, & Guevara, M. E. (2020). Sunscreen knowledge amongst rheumatologists: Finding the gap. *Lupus*. 30(2):360-362. <https://doi.org/10.1177/0961203320973272>
26. LeMoine F, Moore RC, **Chapple A**, Moore FA, Sutton E. (2020) Neonatal Survivability following Previaible PPROM after Hospital Readmission for Intervention. *AJP Rep*. Oct; 10(4):e395-e402. doi: 10.1055/s-0040-1721421. Epub 2020 Dec 3. PMID: PMC7714616
27. Hoffseth KF, Simkin J, Busse E, Stewart K, Watt J, **Chapple A**, Hargrove A, Sammarco MC. (2020) A New Approach to Analyzing Regenerated Bone Quality in the Mouse Digit Amputation Model using Semi-automatic Processing of microCT Data. *Bone*. 2020 Dec 1:115776. doi: 10.1016/j.bone.2020.115776 PMID: 33276153.
28. McDougal, M., Nair-Fairless, P., Weiss, T., Dao, E., **Chapple, A. G.**, & Jernigan, A. (2021). Practice patterns and results of tumor and germline genetic evaluation of women with endometrial cancer in south Louisiana. *Gynecologic oncology reports*, 36, 100717. <https://doi.org/10.1016/j.gore.2021.100717>
29. Salomon, B., Krause, P. C., Dasa, V., Shi, L., Jones, D., & **Chapple, A. G.** (2021). The Impact of Hepatitis C and Liver Disease on Risk of Complications After Total Hip and Knee Arthroplasty: Analysis of Administrative Data From Louisiana and Texas. *Arthroplasty today*, 7, 200–207. <https://doi.org/10.1016/j.artd.2020.12.016>
30. Johnson, K. D., Akingbola, O., Anderson, J., Hart, J., **Chapple, A.**, Woods, C., Yearly, K., & McLean, A. (2021). "Combating a "Twin-demic": A Quantitative Assessment of COVID-19 and Influenza Vaccine Hesitancy in Primary Care Patients". *Health Promotion perspectives*. <https://hpp.tbzmed.ac.ir/PDF/hpp-34133>
31. Buzhardt, S, **Chapple, AG**, LeMoine, F, McCune, K, Moore, F, Sutton, E (2021). Surgical Site Infection Risk in Cesarean Delivery Patients with Obesity Following Negative Pressure Wound Therapy: A Retrospective Cohort Study. *Surgery*.
<https://doi.org/10.1016/j.surg.2021.02.056>
32. Salomon, B, Krause, P.C., Dasa, V., Hall, L., Shi, L., **Chapple, AG** (2021). Hospital length of stay is associated with increased likelihood for venous thromboembolism following total joint arthroplasty. *Arthroplasty today*.
<https://doi.org/10.1016/j.artd.2020.12.025>

33. Certa, M, **Chapple, AG**, Christensen, BJ (2021). Is Screw-Fracture Proximity or Residual Fracture Displacement Correlated to Outcomes after Open Reduction and Internal Fixation of Mandibular Angle Fractures? *Journal of Oral and Maxillofacial Surgery*. <https://doi.org/10.1016/j.joms.2021.05.028>
34. Taylor, K., Noel, E., Chapple, A. G., Buzhardt, S., & Sutton, E. (2021). Risk factors for postpartum hemorrhage in a tertiary hospital in South-Central Louisiana. *The journal of maternal-fetal & neonatal medicine : the official journal of the European Association of Perinatal Medicine, the Federation of Asia and Oceania Perinatal Societies, the International Society of Perinatal Obstetricians*, 1–7. Advance online publication. <https://doi.org/10.1080/14767058.2021.1948528>
35. Dean, M. J., Ochoa, J. B., Sanchez-Pino, M. D., Zabaleta, J., Garai, J., Del Valle, L., Wyczechowska, D., Baiamonte, L. B., Philbrook, P., Majumder, R., Vander Heide, R. S., Dunkenberger, L., Thylur, R. P., Nossaman, B., Roberts, W. M., **Chapple, A. G.**, Wu, J., Hicks, C., Collins, J., ... Ochoa, A. C. (2021). "Severe COVID-19 Is Characterized by an Impaired Type I Interferon Response and Elevated Levels of Arginase Producing Granulocytic Myeloid Derived Suppressor Cells." *Frontiers in Immunology*, 12. <https://doi.org/10.3389/fimmu.2021.695972>
36. Syed, A., Waleed, Z., Ansari, A., Chapple, A., Callahan, N., Melville, J., Roderick, K., Boehm, A., Young, S. (2021). The incidence of COVID-19 patients in Oral and Maxillofacial Surgery. *Journal of Oral and Maxillofacial Surgery*. <https://doi.org/10.1016/j.joms.2021.09.016>
37. Joslyn, P., Rosenbaum, C., Chapple, A.G. *et al.* The effects of maternal hypertension on the early neonatal platelet count. *J Perinatol* (2021). <https://doi.org/10.1038/s41372-021-01278-1>
38. Aguilar, A, Barry, S, Chavez, M, Chapple, AG, Ducote, R, Johnson, A, Ali, L, Pattabhi, R, Poudel, P. (2021) Depression and anxiety in residents of a retirement community during the COVID-19 Pandemic. *Journal of Family Medicine*. <https://austinpublishinggroup.com/family-medicine/fulltext/jfm-v8-id1281.pdf>
39. Timoshchuk, MA, Murnan, EJ, Chapple,AG, Christensen, BJ (2021). Do Patient-Specific Implants Decrease Complications and Increase Orbital Volume Reconstruction Accuracy in Primary Orbital Fracture Reconstruction? *Journal of Oral and Maxillofacial Surgery*. ISSN 0278-2391. <https://doi.org/10.1016/j.joms.2021.12.006>
40. Chapple, A. (2022) Machine learning approaches and statistical techniques can be leveraged to adjust for nonadherence in randomized clinical trials. *JAMA Network Open*. **Accepted**.

41. Benes G, David J, Synowicz M, Betech A, Dasa V, Krause PC, Jones D, Hall L, Leslie L, Chapple AG. Race and Age Impact Osteoporosis Screening Rates in Women Prior to Hip Fracture. (2022). *Arch Osteoporos*. Feb 12;17(1):34. doi: 10.1007/s11657-022-01076-y. PMID: [35150320](https://pubmed.ncbi.nlm.nih.gov/35150320/).
42. Katharine E Thomas, Erin Marie Dauchy, Amber Karamanis, Andrew G. Chapple, Michelle M Loch; Blood Type Does Not Affect Morbidity or Mortality in COVID-19 Infections, As Assessed By a Clinical Severity Scoring System. *Blood* 2021; 138 (Supplement 1): 5027. doi: <https://doi.org/10.1182/blood-2021-144480>
43. Maria Sanchez, Chapple, AG, et al. (2022) Increased Inflammatory Low-Density Neutrophils in Severe Obesity and Effect of Bariatric Surgery: Results from case-control and prospective cohort studies. *eBioMedicine*. **Doi:** <https://doi.org/10.1016/j.ebiom.2022.103910>
44. Tanner-Sanders, Gwan, Nair, **Chapple**. Equity in Visual Representation of Vulvar Conditions in Major Gynecology Textbooks. *Journal of the National Medical Association*. <https://doi.org/10.1016/j.jnma.2022.02.005>.
45. Crnkovic, C, Quiring, R, Dasa, V, Krause, P, Bronstone, A, Chapple, AG (2022). Low Rates of Reporting Race, Ethnicity, and Socioeconomic Status in Studies Published in Top Orthopedic Journals. *JBJS*. **Accepted**.
46. Dickerson, T, Pratt, A, O'Quinn, M, Beuttler, M, Scheinuk, JE, Chapple, AG, Guevera, M. (2022) Racial Disparities in Psoriasis Diagnosis. *Cutis*. **Accepted**.
47. **Chapple, AG**, Bennani, Y, Clement, M. (2022). A Multi-Armed Bayesian Ordinal Outcome Utility-Based Sequential Trial with a Pairwise Null Clustering Prior. *Bayesian Analysis*. **Accepted**.
48. Curtis A, Smith B, **Chapple AG**. Subgroup-Specific Dose Finding for Phase I-II Trials Using Bayesian Clustering. *Statistics in Medicine*. **Accepted**.

Under Review/Revision

McGovern A, **Chapple AG**, Ma C. 2S-Sub-TITE: An adaptive two-stage time-to-toxicity model for subgroup-specific dose finding in Phase I oncology trials. *Pharmaceutical Statistics* [Submitted 7/1/21; under review after first revision]

Moret, R, **Chapple AG**. Analysis of the effects of adjusting for binary non-confounders in a logistic regression model: A simulation study. Communications in Statistics – Simulation and Computation. [Submitted September 21, Under Review after first revision]

Nguyen E, **Chapple AG**. Exploration of Propensity Score Adjustment in Logistic Regression via Simulation Study. Communications in Statistics – Simulation and Computation. Mathematical Population Sciences. [Submitted December, 21; Under Review]

Rosenbaum, N, **Chapple, AG**, Yu, Q, Buzzhardt, S, Sutton, E (2022) Inclusion of proxy variables in logistic regression improves treatment effect estimation in observational studies. Pharmaceutical Statistics. [Under Review, Submitted Jan 10, 22]

David J, Benes G, Dasa V, Krause P, Jones D, Leslie L, Hall L, **Chapple AG**. Parenteral Corticosteroids After Fragility Fracture Increases the Odds of a Repeat Fracture. Under Review.

Published Conference Abstracts/Proceedings:

1. Kaitlyn Taylor MD, **Andrew Chapple PhD**, Amie Davenport RN, Mike Miller, Sharon Odenwald RN, Landon Roy, Lakedra Pam MD, Elizabeth Sutton PhD. Risk Factors for Peripartum Hemorrhage in a Tertiary Hospital in South-Central Louisiana. ACOG 2020 Annual Clinical and Scientific Meeting. Seattle, Washington. [Accepted for poster presentation]
2. Emily Tompkins MD, **Andrew Chapple PhD**, Sarah Buzhardt MD, Elizabeth Sutton PhD. Effect of Cervical Dilation at Time of Amniotomy on Cesarean Rates in a Nulliparous Population. ACOG 2020 Annual Clinical and Scientific Meeting. Seattle, Washington. [Accepted for poster presentation] *Award for most impact*
3. Felicia LeMoine, **Andrew Chapple**, Elizabeth Sutton, Lakedra Pam. Characteristics of Patients Intending to Breastfeed in a Tertiary Obstetric Hospital in Louisiana. ACOG 2020 Annual Clinical and Scientific Meeting. Seattle, Washington. [Accepted for poster presentation]
4. Felicia LeMoine, Roumta Odisho, **Andrew Chapple**, Elizabeth Sutton, Karli Boggs. Improving Maternal and Neonatal Outcomes for Patient with Diabetes by Clinical Navigation. ACOG 2020 Annual Clinical and Scientific Meeting. Seattle, Washington. [Accepted for poster presentation]
5. Roumta Odisho, Felicia LeMoine, Jaimee Castillo-Quek, **Andrew Chapple**, Elizabeth Sutton, Karli Boggs. Novel Clinical Navigation System to Improve Prenatal Care for Patient with Diabetes in Pregnancy. ACOG 2020 Annual Clinical and Scientific Meeting. Seattle, Washington. [Accepted for poster presentation]

6. A.B. Clark, M. Brown, O. Gilbert, **A. Chapple**, A.M. Jernigan and N. Nair. Look good, feel good? the effects of body image on quality of life in gynecologic cancer patients. Society of Gynecologic Oncology Annual Meeting, Toronto, Canada (accepted for poster presentation)
7. O.E. Gilbert, N.L. Rezvani, C.R. Smith, **A. Chapple**, N. Nair, and A.M. Jernigan (2020, Mar 28). Patient Perception of Gynecologic Clinical Trial Participation in the Deep South. Poster presentation at the Society of Gynecologic Oncology Annual Meeting on Women's Cancer. Toronto, Canada.
8. C.J. Mesa, S. Yadlapati, **A.G. Chapple**, S. Mahato, M.E. Guevara. The Use and Safety of Rituximab in Connective Tissue Disease associated Interstitial Lung Disease. American College of Rheumatology (ACR) 2019, Atlanta Georgia.
9. Brett Salomon, **Andrew Chapple Ph.D.**, Vinod Dasa M.D., Peter Krause M.D. Factors Influencing Complication Rates After Total Hip and Knee Arthroplasty in Hepatitis C Positive and Liver Disease Patients. 2020 Louisiana Orthopedic Association.
10. C.J. Mesa, S. Yadlapati, **A.G. Chapple**, S. Mahato, M.E. Guevara. Sunscreen Knowledge Amongst Rheumatologist: Finding the Gap. 22nd Pan-American Congress of Rheumatology (PANLAR) 2020
11. M. Brown, **A.G. Chapple**, N. Nair, et al. Enhanced Recovery After Surgery (ERAS) Implementation in Gynecologic Surgery Patients in a Medically Underserved Population. 2020 LSU Quality Improvement Forum. *People's Choice award winner*
12. R. Gilbert, **A.G. Chapple**, K.Boggs, E. Sutton. Marijuana Use in Pregnancy and the Risk of Preterm Birth. 2020 Central Association of Obstetricians and Gynecologists (CAOG) Meeting. *Dr. Jack A. Pritchard Memorial Paper award winner*
13. Silver V, **Chapple A**, Feibus A, Beckford J, Halapin N, Delphi B, Gordon A, Baumgartner W, Vignes S, Clark C, Kambok S, Lim S, Mackey S, Seal P, Kanter J, Bell C, Clement M. Clinical Characteristics and Outcomes of Patients Hospitalized with COVID-19 in New Orleans, LA: A Cohort Study. Accepted for oral abstract, IDWeek, 2020.
14. Brown M.L., Moussavi V., Clark A.B., Matossian M.D., Holman S., Jernigan A.M., Scheib S.A., Shank J., **Chapple A.G.**, Kelly E., Nair N. ERAS Implementation in Gynecologic Surgery in a Medically Underserved Publicly Insured and Uninsured Population. Poster presented at: AAGL 49th International Congress on Minimally Invasive Gynecologic Surgery. 2020 Nov 6-14; Virtual Conference.
15. Ileanette Robledo-Vega, John Scheinuk, Emmanuel Pardo, Ansley Pratt, Soham Mahato, **Andrew G. Chapple** and Myriam Guevara. Vitamin D Level: Predictor of SLE Disease Activity in AA Cohort with CLE? ACR Convergence 2020.
16. Gwan, A., Tanner, L., **Chapple, A.**, Nair, N., Jernigan, A.,. Visual Representation of Vulvar Skin Conditions in Major Gynecology Textbooks. Are Skins of Color

Underrepresented?. Accepted for poster presentation at CREOG & APGO Annual Meeting. March 2021.

17. Simran Mittal, Anwei Gwan, **Andrew Chapple**, Jaime Alleyn, Valerie Williams. "An Assessment of Medical Student Perceptions Towards Abortion Education." *2020 ACOG Medical Student Virtual Poster Session*. Virtual Meeting. September 26, 2020.
18. Simran Mittal, Anwei Gwan, **Andrew Chapple**, Jaime Alleyn, Valerie Williams. "An Assessment of Medical Student Perceptions Towards Abortion Education." *2020 AMA Research Symposium*. Virtual Meeting. December 3, 2020.
19. Gregory Benes; Justin David; Molly Synowicz; Alex Beteck; **Andrew G. Chapple**; Peter C. Krause; Vinod Dasa; Deryk Jones; Lauren Hall; Robert Galagan. "Exploring Disparities In Screening And Treatment For Osteoporosis In Patients With Hip Fractures" ORS 2021 Annual Meeting.
20. Zohaib Y. Lakhani; Elena Plakotaris; **Andrew Chapple**; Vinod Dasa; Louis Marrero; Jennifer Simkin. "Patient-specific Decreases In Circulating Cytokines Are Associated With Lower Pain After Total Knee Arthroplasty." ORS 2021 Annual Meeting.
21. Guidry T, Odisho R, LeMoine FV, **Chapple AG**, Sutton EF, Boggs KM. Improving Adherence to Prenatal Care for Patients with Diabetes in Pregnancy Using a Nursing-Driven Care Navigation System. Association of Diabetes Care & Education Specialists Annual Conference 2021 (Virtual). Oral Presentation August 13, 2021.
22. Ananthula A, **Chapple AG**, Mani S, Nguyen A, Del Toro A, Boulmay B. Association of immune checkpoint inhibitors (ICI) and venous thromboembolism (VTE): a single healthcare system experience. ASCO 2021 Annual Meeting.
23. Ananthula A, Tran D, Thomas K, Lauren K, Amaker M, Nguyen A, Mahato S, Thrash B, **Chapple AG**, Subbiah S. Association and prevalence of venous thromboembolism in cancer patients with COVID-19: A single healthcare system experience. ASCO 2021 Annual Meeting.
24. Pierre A, Jernigan A, Chapple AG, Maniscalco L, Tsien F, Castellano T. Assessing Baseline Cancer Demographics Versus Cancer Trial Participation Demographics Over One Year in Louisiana. 2021 International Cancer Education Conference.
25. Guidry T, Odisho R, LeMoine FV, **Chapple AG**, Sutton EF, Boggs KM. Improving Adherence to Prenatal Care for Patients with Diabetes in Pregnancy Using a Nursing-Driven Care Navigation System. 2021 Woman's research week.
26. David J, Benes G, Dasa V, Krause P, Jones D, Leslie L, **Chapple AG**. Timing of systemic glucocorticoid administration increases repeat fracture risk. Orthopedic Research Society 2022 Annual Meeting. **Podium Presentation**.

27. Amelia Jernigan, MD; Tara Castellano, MD; Navya Nair, MD, MPH; Andrew G Chapple, PhD; Jonquel Williams, RN; Suzanne Viator, RN, May Thomassee, MD; Holly Provost, MD. STEEL MAGNOLIAS - SHARED TELEHEALTH FOR MULTIDISCIPLINARY GYNECOLOGIC CANCER SURVIVORSHIP: an innovative model for addressing geographic barriers to survivorship for rural patients. Featured Poster. SGO Annual Meeting for Women's Cancer, Phoenix, AZ, March 18-21, 2022
28. Jernigan, MD; Chapple, AG; **et al.** , Reported LVSI and survival outcomes for stage I-II Endometrial Cancers in a region with limited access to formal gynecologic pathology review. Featured Poster. SGO Annual Meeting for Women's Cancer, Phoenix, AZ, March 18-21, 2022
29. Tran, D; **Chapple, AG**; et al. Questioning the use of absolute neutrophil count to diagnose Spontaneous Bacterial Peritonitis in patients with Malignant Ascites. 2022 Southern Regional Meetings, New Orleans LA.
30. Barry, S; Aguillar, E; **Chapple, AG**; et al. ASSESSMENT OF DEPRESSION AND ANXIETY IN RESIDENTS OF A CONTINUING CARE RETIREMENT COMMUNITY DURING THE COVID-19 PANDEMIC QUARANTINE. 2022 Southern Regional Meetings, New Orleans LA.
31. Gibson, W.; Garcia, A; **Chapple, AG**. Comparing the Biopsy Yield and Stenting Efficacy of Endoscopic vs Percutaneous procedures for Biliary & Pancreatic Cancer. 2022 Southern Regional Meetings, New Orleans LA.
32. Rao V, **Chapple A**, Yi Y, Li T, Castellano T. Determining Eligibility for Cervical and Endometrial Cancer Trials Among Women Listed in the Louisiana Tumor Registry Over One Year. Society of Gynecologic Oncology Annual Meeting, Pheonix AZ. March 19-22, 2022.
33. Zito P, Mahato S, **Chapple A**, Tran D, Beversdorf W, Rinker E, Garcia A. Questioning the use of absolute neutrophil count to diagnosis spontaneous bacterial peritonitis in patients with malignant ascites. 2022 Southern Regional Meeting. Poster Presentation.
34. G Benes, V Dasa, PC Krause, D Jones, L Hall, L Leslie, AG Chapple. Risk of Duplicate ICD Codes in Trauma and Injury-Related Research. American College of Surgeons Annual Meeting – Louisiana Chapter. *March 19, 2022.*

Contributed Scientific Presentations:

Local

1. Louisiana Chapter of the ASA (November, 2018). Subgroup-specific dose finding in phase I clinical trials based on time to toxicity allowing adaptive subgroup combination.
2. University of Louisiana - Lafayette (October, 2019): A Hybrid Phase I-II/III Clinical Trial Design Allowing Dose Re-Optimization in Phase III.

National

1. MD Anderson Cancer Center (June, 2017): Bayesian variable selection for a semi-competing risks model with three hazard functions.
2. MD Anderson Cancer Center (June, 2018): A Hybrid Phase I-II/III Clinical Trial Design Allowing Dose Re-Optimization in Phase III.
3. ENAR Annual Meeting (March, 2019): Bayesian variable selection for a semi-competing risks model with three hazard functions.
4. Society of Clinical Trials Annual Meeting (May, 2019): A Hybrid Phase I-II/III Clinical Trial Design Allowing Dose Re-Optimization in Phase III.
5. ENAR Annual Meeting (March, 2020): Subgroup-specific dose finding in phase I clinical trials based on time to toxicity allowing adaptive subgroup combination. Virtual.
6. Joint Statistical Meetings - JSM (July, 2020): Subgroup-specific dose finding in phase I clinical trials based on time to toxicity allowing adaptive subgroup combination. Virtual.
7. ENAR Annual Meeting (March, 2022): A novel Bayesian continuous piecewise linear log-hazard model, with estimation and inference via reversible jump Markov Chain Monte Carlo.

Invited Presentations and Seminars:

1. Bayesian Causal Inference Workshop (June, 2019). Subgroup-specific dose finding in phase I clinical trials based on time to toxicity allowing adaptive subgroup combination.
2. iBRIGHT conference at MDAnderson (November, 2019): Subgroup-specific dose finding in phase I clinical trials based on time to toxicity allowing adaptive subgroup combination.
3. International Biometrics Conference (July 2020): A Hybrid Phase I-II/III Clinical Trial Design Allowing Dose Re-Optimization in Phase III. Best Biometrics paper showcase 2019. Virtual.
4. PEARC High Throughput Research Conference (July, 2020): Utilizing Open Science Grid resources for Clinical Trial Designs.
5. Panel Discussant – Workshop: “Supporting Campus Researchers with dHTC and the OSG”, October 22.
6. Virginia Commonwealth University (VCU) Biostatistics seminar (April 2021): A novel Bayesian continuous piecewise linear log-hazard model, with estimation and inference via reversible jump Markov Chain Monte Carlo.

Editorial Posts and Activities:

Reviewer:

JAMA Network Open (2019-Present)

Have Reviewed for

Biometrics
Frontiers
Statistics in Medicine
Bayesian Analysis
Statistical Science

SERVICE ACTIVITIES

University/Institutional Service:

Departmental committees

Statistics Colloquium Organizer 2019-2020.

School committees

Curriculum Committee (Chair): October 2020-Present.
Marketing Strategic Planning Committee October 2021-Present

LSUHSC (campus) committees

Faculty Senate Member: July 2020-Present