







Stephen Rhodes

Clinical Research Biostatistician III

Curriculum Vitae

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Experience

2021-present	Clinical Research Biostatistician III Cleveland OH, US	Urology Institute, University Hospitals Cleveland Medical Center
2019-2021	Postdoctoral Fellow Toronto ON, CA	Rotman Research Institute
2016-2019	Postdoctoral Fellow Columbia MO, USA	University of Missouri

Education

2012-2016	PhD Cognitive Psychology Edinburgh, UK	The University of Edinburgh
2011-2012	MSc Human Cognitive Neuropsychology Edinburgh, UK	The University of Edinburgh
2008-2011	BSc (hons) Psychology Leeds, UK	University of Leeds

Publications and Preprints

2024	The Future State of Race/Ethnicity in Urology: Urology Workforce Projection from 2021-2061 A Appleton, K Black, NC Sellke, SL Washington III, S Does, S Rhodes, ... Urology	
2024	The association between frailty, hypogonadism, and postoperative outcomes among men undergoing radical cystectomy DR Greenberg, S Rhodes, HP Bhambhani, LC Gago, EM Schaeffer, ... Urologic Oncology: Seminars and Original Investigations	
2024	Risk of postoperative mesh exposure following sacrocolpopexy with supracervical versus total concomitant laparoscopic hysterectomy S Glass Clark, C Bretschneider, MS Bradley, S Rhodes, J Shoag, ... International Urogynecology Journal	
2023	Strategic adaptation to dual-task in verbal working memory: Potential routes for theory integration. C Belletier, JM Doherty, AJ Graham, S Rhodes, N Cowan, ... Journal of Experimental Psychology: Learning, Memory, and Cognition	
2023	National adherence to guidelines for antimicrobial prophylaxis for patients undergoing radical cystectomy M Prunty, S Rhodes, MJ Rivero, M Callegari, E Jesse, C Arenas-Gallo, ... The Journal of urology	
2023	Is total laparoscopic hysterectomy with longer operative time associated with a decreased benefit compared with total abdominal hysterectomy? N Chakraborty, S Rhodes, D Luchristt, CE Bretschneider, D Sheyn American journal of obstetrics and gynecology	
2023	Trends in testosterone prescription during the release of society guidelines N Sellke, D Omil-Lima, HH Sun, K Tay, S Rhodes, A Loeb, ... International Journal of Impotence Research	
2023	How Female Is the Future of Urology? Projecting Various Trajectories of the United States Urology Workforce EM Jackson, N Sellke, S Rhodes, TK Jella, TB Cwalina, JE Schmidt, ... Urology	

- 2023 **Individual-level home values and cancer mortality in a statewide registry** A Zhu, S Rhodes, W Dong, J Rose, J Cullen, DB Miller, DE Spratt, ...
JNCI Cancer Spectrum
- 2023 **Evaluation of gastrointestinal tract injury within 1 year of surgery for pelvic organ prolapse** A Gupta, CE Bretschneider, S Rhodes, J Shoag, C McBride, D Sheyn
International Urogynecology Journal
- 2023 **There is not enough evidence to support the claim that Covid-19 vaccination BNT162b2 temporarily impairs semen concentration and total motile count** S Rhodes, J Badreddine, R Abou Ghayda
Andrology
- 2023 **Beyond the kidney: extra-renal manifestations of monogenic nephrolithiasis and their significance** CHW Wu, J Badreddine, E Su, K Tay, HTC Lin, S Rhodes, F Schumacher, ...
Pediatric Nephrology
- 2023 **Driving Time and Compliance With Postvasectomy Semen Analysis Drop-Off** B Ward, N Sellke, S Rhodes, H Sun, K Tay, R Abou Ghayda, ...
Urology
- 2023 **Gallbladder disease in transgender individuals: associations with gender-affirming hormone therapy** T Tabernacki, M Loria, S Rhodes, R Pope, S Gupta, S Banik, K Mishra
International Journal of Transgender Health
- 2023 **Trends, cost, and predictors of local hemostatics use in major urological surgery** C Arenas-Gallo, P Lewicki, M Prunty, A Brant, S Rhodes, SP Basourakos, ...
Urology Practice
- 2023 **VARIABILITY IN SELF-PAY PRICING FOR VASECTOMY AMONG UNITED STATES HOSPITALS** A Brant, S Rhodes, NC Sellke, C Arenas-Gallo, N Thirumavalavan, ...
Fertility and Sterility
- 2023 **The Racial and Socioeconomic Characteristics of Men Using Mail-in Semen Testing Kits in the United States** N Sellke, J Badreddine, S Rhodes, N Thirumavalavan, R Abou Ghayda
Urology
- 2023 **The Variability of Semen Parameters With Sexual Abstinence Using Mail-in Sperm Testing Is Similar to That Seen With Traditional In-Office Semen Analysis** J Badreddine, S Rhodes, N Sellke, F Navarrete, S Keller, V Gowda, ...
American Journal of Men's Health
- 2023 **Prostate cancer genetic alterations in Hispanic men** C Arenas-Gallo, S Rhodes, JA Garcia, I Weinstein, M Prunty, P Lewicki, ...
The Prostate
- 2023 **The outcomes of same-day discharge following holmium laser enucleation of the prostate (HoLEP) surgeries: our experience during the COVID-19 pandemic** J Badreddine, H Sun, K Tay, S Rhodes, D Chen, M Zell, I Jaeger, A Nevo
World Journal of Urology
- 2023 **Trends over 20 years of antimicrobial prophylaxis for artificial urinary sphincter surgery** HH Sun, M Callegari, E Zhou, S Rhodes, A Brant, E Jesse, M Prunty, ...
Neurourology and Urodynamics
- 2023 **Complications following retropubic versus transobturator midurethral synthetic sling placement** S Sears, S Rhodes, C McBride, J Shoag, D Sheyn
International Urogynecology Journal
- 2023 **No clear or consistent evidence that wearing an eye mask leads to meaningful improvement in learning and alertness: a reanalysis of Greco et al.(2023)** S Rhodes
Sleep, zsad
- 2023 **Price transparency of prostate cancer care in the United States: An analysis of pricing and disclosure following the centers for medicare and medicaid mandate** A Brant, P Lewicki, S Rhodes, C Arenas-Gallo, MO Strasser, A Zhu, ...
Prostate Cancer and Prostatic Diseases
- 2023 **Opioid use following pelvic reconstructive surgery: a predictive calculator** KM Palm, MK Abrams, SB Sears, SD Wherley, AM Alfahmy, SA Kamumbu, ...
International Urogynecology Journal

- 2023 **Beyond the Kidney: Extra-Renal Manifestations of Monogenic Nephrolithiasis and Their Significance** J
Badreddine, K Tay, HTC Lin, S Rhodes, FR Schumacher, D Bodner, ...
medRxiv
- 2023 **Geographic Differences in Semen Quality among a Cohort of American Men Using Mail-in Sperm Testing Kits** Y Aznavour, F Navarrete, J Badreddine, PHG Simon, V Gowda, S Rhodes, ...
The World Journal of Men's Health
- 2022 **Redefining the gender gap in urology authorship: an 18-year publication analysis** M Prunty, S Rhodes, H Sun, SP Psutka, K Mishra, A Kutikov, D Chen, ...
European Urology Focus
- 2022 **A seat at the table: the correlation between female authorship and urology journal editorial board membership** M Prunty, S Rhodes, H Sun, A Miller, A Calaway, A Kutikov, ER Plimack, ...
European Urology Focus
- 2022 **A tutorial on cognitive modeling for cognitive aging research.** NR Greene, S Rhodes
Psychology and Aging
- 2022 **Semen parameter variability among users of at-home sperm testing kits** Y Aznavour, F Navarrete, J Badreddine, PHG Simon, V Gowda, S Rhodes, ...
BMC urology
- 2022 **Impact and Implications of the COVID-19 Pandemic on Urological Training** M Callegari, J Maclean, S Rhodes, B Piyevesky, M Prunty, E Jesse, K Tay, ...
Urology Practice
- 2022 **Where to draw the line? Understanding preferences in mucosal collar length after circumcision: A crowdsourced survey from the US general population** M Callegari, W Muncey, T Kim, S Rhodes, L Woo, J Hannick
Canadian Urological Association Journal
- 2022 **Absence of a mere-exposure effect in older and younger adults.** JK Chow, S Rhodes, NO Rule, BR Buchsbaum, L Hasher
Psychology and Aging
- 2022 **Using restricted cubic splines to assess the calibration of clinical prediction models: Logit transform predicted probabilities first** S Rhodes
OSF Preprints
- 2022 **Comparison of Morbidity and Retreatment After Urethral Bulking or Midurethral Sling at the Time of Pelvic Organ Prolapse Repair** R Russell, S Rhodes, A Gupta, CE Bretschneider, CA Ferrando, A Hijaz, ...
Obstetrics & Gynecology
- 2021 **Revisiting the remember-know task: Replications of Gardiner and Java (1990)** JM Haaf, S Rhodes, M Naveh-Benjamin, T Sun, HK Snyder, JN Rouder
Memory & Cognition
- 2021 **What affects the magnitude of age-related dual-task costs in working memory? The role of stimulus domain and access to semantic representations** AJ Jaroslawska, S Rhodes, C Belletier, JM Doherty, N Cowan, ...
Quarterly Journal of Experimental Psychology
- 2021 **Female authorship trends in urology during the COVID-19 pandemic** M Prunty, S Rhodes, K Mishra, S Gupta, D Sheyn, L Ponsky, B Conroy, ...
European urology
- 2021 **Exploring the influence of temporal factors on age differences in working memory dual task costs.** S Rhodes, JM Doherty, AJ Jaroslawska, A Forsberg, C Belletier, ...
Psychology and aging
- 2020 **How do scientific views change? Notes from an extended adversarial collaboration** N Cowan, C Belletier, JM Doherty, AJ Jaroslawska, S Rhodes, A Forsberg, ...
Perspectives on psychological science.
- 2020 **Age differences in the precision of memory at short and long delays.** S Rhodes, EE Abbene, AM Meierhofer, M Naveh-Benjamin
Psychology and Aging
- 2020 **Co-existing, contradictory working memory models are ready for progressive refinement: Reply to Logie** C Morey, S Rhodes, N Cowan
Cortex

- 2020 **The influence of long-term memory on working memory: Age-differences in proactive facilitation and interference** S Rhodes, BR Buchsbaum, L Hasher
Psychonomic Bulletin & Review
- 2019 **Age-related differences in recall and recognition: A meta-analysis** S Rhodes, NR Greene, M Naveh-Benjamin
Psychonomic Bulletin & Review
- 2019 **Dual-task costs in working memory: An adversarial collaboration.** JM Doherty, C Belletier, S Rhodes, A Jaroslawska, P Barrouillet, V Camos, ...
Journal of experimental psychology: learning, memory, and cognition
- 2019 **Storage and processing in working memory: Assessing dual-task performance and task prioritization across the adult lifespan.** S Rhodes, AJ Jaroslawska, JM Doherty, C Belletier, M Naveh-Benjamin, ...
Journal of Experimental Psychology: General
- 2019 **Adult age differences in the effects of processing on storage in working memory: A meta-analysis.** AJ Jaroslawska, S Rhodes
Psychology and aging
- 2019 **Interaction effects on common measures of sensitivity: Choice of measure, type i error, and power** S Rhodes, N Cowan, MA Parra, RH Logie
Behavior Research Methods
- 2019 **Flexible representations in visual working memory and interactions with long-term learning: Commentary on the special issue** S Rhodes, N Cowan
British Journal of Psychology
- 2019 **Binding in Short-Term Visual Memory: Reassessing Whole Display Interference** S Rhodes, N Cowan, MP Rodrigues, RH Logie
PsyArXiv
- 2018 **Loneliness in psychosis: a meta-analytical review** B Michalska da Rocha, S Rhodes, E Vasilopoulou, P Hutton
Schizophrenia bulletin
- 2018 **Attention in working memory: attention is needed but it yearns to be free** S Rhodes, N Cowan
Annals of the New York Academy of Sciences
- 2018 **Sensory-motor integration and brain lesions: Progress toward explaining domain-specific phenomena within domain-general working memory** CC Morey, S Rhodes, N Cowan
Cortex
- 2018 **Informed guessing in change detection.** S Rhodes, N Cowan, KO Hardman, RH Logie
Journal of Experimental Psychology: Learning, Memory, and Cognition
- 2017 **Visual feature binding in younger and older adults: Encoding and suffix interference effects** LA Brown, EH Niven, RH Logie, S Rhodes, RJ Allen
Memory
- 2017 **Healthy aging and visual working memory: The effect of mixing feature and conjunction changes.** S Rhodes, MA Parra, N Cowan, RH Logie
Psychology and Aging
- 2017 **Locating temporal functional dynamics of visual short-term memory binding using graph modular dirichlet energy** K Smith, B Ricaud, N Shahid, S Rhodes, JM Starr, A Ibáñez, MA Parra, ...
Scientific reports
- 2016 **Ageing and feature binding in visual working memory: The role of presentation time** S Rhodes, MA Parra, RH Logie
Quarterly Journal of Experimental Psychology
- 2016 **Executive Functioning** S Rhodes, MA Parra
Encyclopedia of Geropsychology

Published Conference Abstracts

- 2024 **(200) The Fertility and Childbearing Experiences of US Male Physicians** E Jesse, K Tay, N Sellke, S Rhodes, W Muncey, A Hijaz, ...
The Journal of Sexual Medicine

- 2024 **(302) Intertest Reliability of Seminal Round Cells and Leukocytes Without Treatment in Men Presenting for Infertility** N Sellke, A Chiu, E Zhou, S Rhodes, H Sun, K Tay, A Loeb, ...
The Journal of Sexual Medicine
- 2024 **(378) Shorter Abstinence is Associated with a Decrease in Semen Round Cells but Not in Semen Leukocytes** N Sellke, A Chiu, E Zhou, S Rhodes, H Sun, K Tay, A Loeb, ...
The Journal of Sexual Medicine
- 2024 **(384) Post-Vasectomy Semen Analysis Compliance Correlated with Patient Driving Distance to Drop-off Site** B Ward, N Sellke, S Rhodes, R Abou Ghayda, N Thirumavalavan, A Loeb
The Journal of Sexual Medicine
- 2024 **(084) Low Serum Testosterone is Associated with an Increased Risk of First-time Nephrolithiasis in Men Without Testosterone Replacement Therapy** A Thompson, S Rhodes, D Omil-Lima, D Obery, B Jevnikar, D Kaelber, ...
The Journal of Sexual Medicine
- 2024 **(145) Utilization of Crowdfunding for Genital Gender Affirmation Surgery** H Sun, E Pei, S Rhodes, K Mishra, S Gupta
The Journal of Sexual Medicine
- 2024 **(091) The Association Between Hypogonadism, Frailty, and Postoperative Outcomes Among Men Undergoing Radical Cystectomy** D Greenberg, H Bhambhani, L Gago, S Rhodes, E Schaeffer, J Meeks, ...
The Journal of Sexual Medicine
- 2024 **325 Adverse pregnancy outcomes in patients with congenital uterine anomalies: evaluation of a large population database** ZO Silsby, S Rhodes, DC Kaelber, D Sheyn, JR Lappen
American Journal of Obstetrics & Gynecology
- 2023 **Twenty-year patterns in area deprivation index and risk of metastatic prostate cancer at initial diagnosis among men in Ohio.** J Cullen, JY Payne, SP Rhodes, JE Shoag
Journal of Clinical Oncology
- 2023 **(491) Optimizing Healthcare Provider Response Rates in Sexual Dysfunction Survey Research** E Jesse, R Russell, S Ramanujan, S Rhodes, M Callegari, M Prunty, ...
The Journal of Sexual Medicine
- 2023 **(281) Pelvic Floor Dysfunction in Premenopausal Women with Recurrent Urinary Tract Infections** E Jesse, C Van Dorn, J Badreddine, S Rhodes, R Edwins, R Pope
The Journal of Sexual Medicine
- 2023 **(543) Antibiotic Prophylaxis for Artificial Urinary Sphincter Surgery-Trends in AUA Best Practices Guideline Adherence** M Callegari, S Rhodes, A Brant, H Sun, E Jesse, M Prunty, J Shoag, ...
The Journal of Sexual Medicine
- 2023 **MP71-08 TRENDS OVER 20 YEARS OF ANTIMICROBIAL PROPHYLAXIS FOR ARTIFICIAL URINARY SPHINCTER SURGERY** H Sun, M Callegari, E Zhou, S Rhodes, A Brant, E Jesse, M Prunty, ...
The Journal of Urology
- 2023 **MP17-18 PROSTATE CANCER GENETIC ALTERATIONS IN HISPANIC MEN** C Arenas-Gallo, S Rhodes, JA Garcia, L Posada, I Weinstein, M Prunty, ...
The Journal of Urology
- 2023 **MP21-19 THE RACIAL AND SOCIOECONOMIC CHARACTERISTICS OF A COHORT OF MEN USING AT-HOME FERTILITY TESTS IN THE UNITED STATES** J Badreddine, N Sellke, S Rhodes, M Callegari, P Simon, ...
The Journal of Urology
- 2023 **MP54-19 RELATIONSHIP BETWEEN HOME VALUE AND MORTALITY OUTCOMES IN CANCER PATIENTS FROM A STATEWIDE REGISTRY** MO Strasser, A Zhu, S Rhodes, A Balasubramanian, L Posada, ...
The Journal of Urology
- 2023 **MP77-01 TRENDS, OUTCOMES, AND COSTS OF HEMOSTATIC UTILIZATION FOR MAJOR UROLOGIC SURGERY** C Arenas-Gallo, P Lewicki, M Prunty, A Brant, S Rhodes, SP Basourakos, ...
The Journal of Urology

- 2023 **MP31-18 TRENDS IN POSTOPERATIVE OUTCOMES AND COST FOR LIVE DONOR NEPHRECTOMIES ACROSS SURGICAL SPECIALTIES** I Weinstein, C Arenas-Gallo, S Rhodes, J Shoag
The Journal of Urology
- 2023 **Cost comparison of laparoscopic and robotic assisted sacrocolpopexy** S Sears, SP Rhodes, M Abrams, S Wherley, H Bauer, J Shoag, D Sheyn
American Journal of Obstetrics & Gynecology
- 2023 **Risk of death in women hospitalized with a primary diagnosis of urinary tract infection** M Abrams, SP Rhodes, D Sheyn
American Journal of Obstetrics & Gynecology
- 2023 **Risk of postoperative mesh exposure following sacrocolpopexy with concomitant total versus supracervical hysterectomy** SG Clark, CE Bretschneider, MS Bradley, SP Rhodes, J Shoag, D Sheyn
American Journal of Obstetrics & Gynecology
- 2023 **Evaluation of gastrointestinal tract injury during surgery for pelvic organ prolapse within one year after surgery** A Gupta, CE Bretschneider, SP Rhodes, J Shoag, C McBride, D Sheyn
American Journal of Obstetrics & Gynecology
- 2022 **Opioid Use Following Pelvic Reconstructive Surgery: A Prospective Cohort Study** K Roberts, M Abrams, S Sears, SD Wherley, S Rhodes, A Alfahmy, ...
INTERNATIONAL UROGYNECOLOGY JOURNAL
- 2022 **PD30-09 IMPACT AND IMPLICATIONS OF THE COVID-19 PANDEMIC ON UROLOGIC TRAINING** B Piyevsky, J Maclean, A Li, S Rhodes, M Prunty, E Jesse, A Alfahmy, ...
The Journal of Urology
- 2022 **Where to Draw the Line: Understanding Preferences in Mucosal Collar Length After Circumcision** M Callegari, W Muncey, T Kim, S Rhodes, L Woo, J Hannick
The Journal of Sexual Medicine
- 2022 **Penile Prosthesis Utilization After Radical Cystoprostatectomy for Bladder Cancer** M Prunty, S Rhodes, D OBrian, E Jesse, M Callegari, C Arenas-Gallo, ...
The Journal of Sexual Medicine
- 2021 **MP20-13 FROM ABSTRACT TO MANUSCRIPT: EVALUATING UROLOGIC ONCOLOGY PUBLICATION RATES FROM AUA ANNUAL MEETINGS (2012-2019)** M Prunty, S Rhodes, N Yaffe, S Markt, L Snodgrass, C Cary, RS Boris, ...
The Journal of Urology
- 2021 **PD33-05 A SEAT AT THE TABLE: AN 18 YEAR ANALYSIS OF FEMALE REPRESENTATION ON UROLOGIC JOURNAL EDITORIAL BOARD MEMBERSHIP** M Prunty, S Rhodes, H Sun, A Miller, A Calaway, L Ponsky, K Murray, ...
The Journal of Urology

R packages

- **pminternal**: Internal Validation of Clinical Prediction Models. <https://stephenrho.github.io/pminternal/>
- **pmcalibration**: Calibration Curves for Clinical Prediction Models. <https://github.com/stephenrho/pmcalibration;>
<https://CRAN.R-project.org/package=pmcalibration>