

# Michael Luu, MPH

RESEARCH BIOSTATISTICIAN II

Samuel Oschin Comprehensive Cancer Institute

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## Education

### University of Southern California

M.P.H. IN BIOSTATISTICS & EPIDEMIOLOGY

Los Angeles, California

2015

### University of California, Irvine

B.SC. IN BIOLOGICAL SCIENCES

Irvine, California

2009

## Professional Experience

### Samuel Oschin Comprehensive Cancer Institute

RESEARCH BIOSTATISTICIAN II

Los Angeles, California

2016 - Present

- Assist and collaborate in preparation of grant proposals, protocol designs, publications, and presentation by providing statistical support for sample size determination and power analysis.
- Analysis of large cancer registry for survival outcomes from the National Cancer Database (NCDB), and the Surveillance, Epidemiology, and End Results Program (SEER-Medicare) from the National Cancer Institute (NCI)

### Children's Hospital Los Angeles

RESEARCH BIOSTATISTICIAN I

Los Angeles, California

2016

- Provided statistical support to a multidisciplinary group of faculty physicians, residents, and fellows in study design, power analysis, sample size calculation and data analysis.

### Children's Hospital Los Angeles

QUALITY IMPROVEMENT ANALYST

Los Angeles, California

2015 - 2016

- Collaborated with a multidisciplinary NICCU quality improvement team by providing key analytic insight and development of key analytical tools that directly affect patient care, such as the CHLA/USC Division of Neonatology Enteral Feeding Calculator, and CHLA/USC Division of Neonatology Hand Hygiene Dashboard.

### Children's Hospital Los Angeles

EPIDEMIOLOGY & OUTCOMES RESEARCH INTERN

Los Angeles, California

2014 - 2015

- Performed exploratory analysis on large administrative databases such as the Healthcare Cost and Utilization Project Kids Inpatient Database (HCUP-KIDS), California's Office of Statewide Health Planning and Development and Pediatrics Health Information Systems consisting of more than 100 thousand observations and explored the relationship of resource utilization and outcomes on the high risk neonatal population.

## Teaching Experience

### BMS510 - Biostatistics

CEDARS-SINAI CANCER CENTER

Los Angeles, California

2018 - present

- Co-instructor in the biostatistics course for the biomedical sciences PhD program. Taught the introductory portion to the R programming language, data manipulation with the suite of packages as well as data visualization using ggplot2

## Professional Membership

### American Statistical Association

2018 - present

## Peer Reviewed Publications

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### 2017

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[1] J. M. David, A. S. Ho, M. Luu, et al. "Treatment at high-volume facilities and academic centers is independently associated with improved survival in patients with locally advanced head and neck cancer." Eng. In: *Cancer* 123.20 (Oct. 2017), pp. 3933-3942. ISSN: 1097-0142. DOI: 10.1002/cncr.30843. PMID: 28640546.

[2] Z. S. Zumsteg, M. Luu, E. J. Yoshida, et al. "Combined high-intensity local treatment and systemic therapy in metastatic head and neck squamous cell carcinoma: An analysis of the National Cancer Data Base." Eng. In: *Cancer* 123.23 (Dec. 2017), pp. 4583-4593. ISSN: 1097-0142. DOI: 10.1002/cncr.30933. PMID: 28817183.

### 2018

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- [1] K. Aro, A. S. Ho, M. Luu, et al. "Development of a novel salivary gland cancer lymph node staging system." Eng. In: *Cancer* 124.15 (Aug. 2018), pp. 3171-3180. ISSN: 1097-0142. DOI: 10.1002/cncr.31535. PMID: 29742277.
- [2] T. Daskivich, M. Luu, B. Noah, et al. "Differences in Online Consumer Ratings of Health Care Providers Across Medical, Surgical, and Allied Health Specialties: Observational Study of 212,933 Providers." Eng. In: *Journal of medical Internet research* 20.5 (May. 2018), p. e176. ISSN: 1438-8871. DOI: 10.2196/jmir.9160. PMID: 29743150.
- [3] D. J. Lu, M. Luu, A. Mita, et al. "Human papillomavirus-associated oropharyngeal cancer among patients aged 70 and older: Dramatically increased prevalence and clinical implications." Eng. In: *European journal of cancer (Oxford, England : 1990)* 103 (Nov. 2018), pp. 195-204. ISSN: 1879-0852. DOI: 10.1016/j.ejca.2018.08.015. PMID: 30268920.
- [4] N. E. Mahrer, J. I. Gold, M. Luu, et al. "A Cost-Analysis of an Interdisciplinary Pediatric Chronic Pain Clinic." Eng. In: *The journal of pain* 19.2 (Feb. 2018), pp. 158-165. ISSN: 1528-8447. DOI: 10.1016/j.jpain.2017.09.008. PMID: 29054492.
- [5] D. N. Patel, S. I. Felder, M. Luu, et al. "Early Urinary Catheter Removal Following Pelvic Colorectal Surgery: A Prospective, Randomized, Noninferiority Trial." Eng. In: *Diseases of the colon and rectum* 61.10 (Oct. 2018), pp. 1180-1186. ISSN: 1530-0358. DOI: 10.1097/DCR.0000000000001206. PMID: 30192326.
- [6] J. D. Pennington, F. C. Eilber, F. R. Eilber, et al. "Long-term Outcomes With Ifosfamide-based Hypofractionated Preoperative Chemoradiotherapy for Extremity Soft Tissue Sarcomas." Eng. In: *American journal of clinical oncology* 41.12 (Dec. 2018), pp. 1154-1161. ISSN: 1537-453X. DOI: 10.1097/COC.0000000000000443. PMID: 29664796.
- [7] E. J. Yoshida, M. Luu, J. M. David, et al. "Postoperative chemoradiotherapy in patients with head and neck cancer aged 70 or older with positive margins or extranodal extension and the influence of nodal classification." Eng. In: *Head & neck* 40.6 (Jun. 2018), pp. 1228-1236. ISSN: 1097-0347. DOI: 10.1002/hed.25100. PMID: 29417700.
- [8] E. J. Yoshida, M. Luu, J. M. David, et al. "Facility Volume and Survival in Nasopharyngeal Carcinoma." Eng. In: *International journal of radiation oncology, biology, physics* 100.2 (Feb. 2018), pp. 408-417. ISSN: 1879-355X. DOI: 10.1016/j.ijrobp.2017.09.038. PMID: 29100787.

## 2019

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- [1] K. Aro, A. S. Ho, M. Luu, et al. "Survival Impact of Adjuvant Therapy in Salivary Gland Cancers following Resection and Neck Dissection." Eng. In: *Otolaryngology-head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery* 160.6 (Jun. 2019), pp. 1048-1057. ISSN: 1097-6817. DOI: 10.1177/0194599819827851. PMID: 30721113.
- [2] T. J. Daskivich, J. Houman, M. Lopez, et al. "Association of Wearable Activity Monitors With Assessment of Daily Ambulation and Length of Stay Among Patients Undergoing Major Surgery." Eng. In: *JAMA network open* 2.2 (Feb. 2019), p. e187673. ISSN: 2574-3805. DOI: 10.1001/jamanetworkopen.2018.7673. PMID: 30707226.
- [3] T. J. Daskivich, I. Thomas, M. Luu, et al. "External Validation of the Prostate Cancer Specific Comorbidity Index: A Claims Based Tool for the Prediction of Life Expectancy in Men with Prostate Cancer." Eng. In: *The Journal of urology* 202.3 (Sep. 2019), pp. 518-524. ISSN: 1527-3792. DOI: 10.1097/JU.0000000000000287. PMID: 31009286.
- [4] M. Guan, I. He, M. Luu, et al. "Palliative Radiation Therapy for Bone Metastases in Neuroendocrine Neoplasms." Eng. In: *Advances in radiation oncology* 4.3 (Apr. 2019), pp. 513-519. ISSN: 2452-1094. DOI: 10.1016/j.adro.2019.03.014. PMID: 31360808.
- [5] A. S. Ho, M. Luu, C. Zalt, et al. "Mortality Risk of Nonoperative Papillary Thyroid Carcinoma: A Corollary for Active Surveillance." Eng. In: *Thyroid : official journal of the American Thyroid Association* 29.10 (Oct. 2019), pp. 1409-1417. ISSN: 1557-9077. DOI: 10.1089/thy.2019.0060. PMID: 31407637.
- [6] M. Kaisey, A. J. Solomon, M. Luu, et al. "Incidence of multiple sclerosis misdiagnosis in referrals to two academic centers." Eng. In: *Multiple sclerosis and related disorders* 30 (May. 2019), pp. 51-56. ISSN: 2211-0356. DOI: 10.1016/j.msard.2019.01.048. PMID: 30738280.
- [7] D. J. Lu, M. Luu, A. T. Nguyen, et al. "Survival outcomes with concomitant chemoradiotherapy in older adults with oropharyngeal carcinoma in an era of increasing human papillomavirus (HPV) prevalence." Eng. In: *Oral oncology* 99 (Dec. 2019), p. 104472. ISSN: 1879-0593. DOI: 10.1016/j.oraloncology.2019.104472. PMID: 31704556.
- [8] D. J. Lu, M. Luu, C. M. Yashar, et al. "An evaluation of gender diversity in the American Brachytherapy Society." Eng. In: *Brachytherapy* 18.6 (Aug. 2019), pp. 835-840. ISSN: 1873-1449. DOI: 10.1016/j.brachy.2019.07.003. PMID: 31402211.
- [9] S. R. Marcrom, J. M. Kahn, L. E. Colbert, et al. "Brachytherapy Training Survey of Radiation Oncology Residents." Eng. In: *International journal of radiation oncology, biology, physics* 103.3 (Mar. 2019), pp. 557-560. ISSN: 1879-355X. DOI: 10.1016/j.ijrobp.2018.10.023. PMID: 30612963.
- [10] D. N. Patel, M. Luu, Z. S. Zumsteg, et al. "Development and Validation of an Improved Pathological Nodal Staging System for Urothelial Carcinoma of the Bladder." Eng. In: *European urology oncology* 2.6 (Nov. 2019), pp. 656-663. ISSN: 2588-9311. DOI: 10.1016/j.euo.2018.12.012. PMID: 31412014.
- [11] M. K. Srour, M. Lee, S. Walcott-Sapp, et al. "Overuse of Preoperative Staging of Patients Undergoing Neoadjuvant Chemotherapy for Breast Cancer." Eng. In: *Annals of surgical oncology* 26.10 (Oct. 2019), pp. 3289-3294. ISSN: 1534-4681. DOI: 10.1245/s10434-019-07543-0. PMID: 31342365.
- [12] M. K. Srour, J. Tseng, M. Luu, et al. "Patterns in the Use of Axillary Operations for Patients with Node-Positive Breast Cancer After Neoadjuvant Chemotherapy: A National Cancer Database (NCDB) Analysis." Eng. In: *Annals of surgical oncology* 26.10 (Oct. 2019), pp. 3305-3311. ISSN: 1534-4681. DOI: 10.1245/s10434-019-07540-3. PMID: 31342364.

## 2020

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- [1] G. Gresham, M. A. Diniz, Z. S. Razaee, et al. "Evaluating Treatment Tolerability in Cancer Clinical Trials Using the Toxicity Index." Eng. In: *Journal of the National Cancer Institute* 112.12 (Dec. 2020), pp. 1266-1274. ISSN: 1460-2105. DOI: 10.1093/jnci/djaa028. PMID: 32091598.
- [2] A. S. Ho, M. Luu, L. Barrios, et al. "Incidence and Mortality Risk Spectrum Across Aggressive Variants of Papillary Thyroid Carcinoma." Eng. In: *JAMA oncology* 6.5 (May. 2020), pp. 706-713. ISSN: 2374-2445. DOI: 10.1001/jamaoncol.2019.6851. PMID: 32134428.
- [3] D. J. Lu, M. Luu, A. T. Nguyen, et al. "The role of concomitant chemoradiotherapy in AJCC 7th edition T1-2N1 oropharyngeal carcinoma in the human papillomavirus era." Eng. In: *Oral oncology* 110 (Nov. 2020), p. 104882. ISSN: 1879-0593. DOI: 10.1016/j.oraloncology.2020.104882. PMID: 32650257.
- [4] J. L. Markman, R. A. Porritt, D. Wakita, et al. "Loss of testosterone impairs anti-tumor neutrophil function." Eng. In: *Nature communications* 11.1 (Mar. 2020), p. 1613. ISSN: 2041-1723. DOI: 10.1038/s41467-020-15397-4. PMID: 32235862.
- [5] A. T. Nguyen, M. Luu, J. M. Clair, et al. "Comparison of Survival After Transoral Robotic Surgery vs Nonrobotic Surgery in Patients With Early-Stage Oropharyngeal Squamous Cell Carcinoma." Eng. In: *JAMA oncology* 6.10 (Oct. 2020), pp. 1555-1562. ISSN: 2374-2445. DOI: 10.1001/jamaoncol.2020.3172. PMID: 32816023.
- [6] M. P. Sittig, M. Luu, E. J. Yoshida, et al. "Impact of insurance on survival in patients < 65 with head & neck cancer treated with radiotherapy." Eng. In: *Clinical otolaryngology : official journal of ENT-UK ; official journal of Netherlands Society for Oto-Rhino-Laryngology & Cervico-Facial Surgery* 45.1 (Jan. 2020), pp. 63-72. ISSN: 1749-4486. DOI: 10.1111/coa.13467. PMID: 31661188.
- [7] S. Walcott-Sapp, M. K. Srouf, M. Lee, et al. "Can Radiologic Tumor Size Following Neoadjuvant Therapy Reliably Guide Tissue Resection in Breast Conserving Surgery in Patients with Invasive Breast Cancer?" Eng. In: *The American surgeon* 86.10 (Oct. 2020), pp. 1248-1253. ISSN: 1555-9823. DOI: 10.1177/0003134820964209. PMID: 33284669.
- [8] J. D. Yang, M. Luu, A. G. Singal, et al. "Factors Associated With Detection and Survival of T1 Hepatocellular Carcinoma in the United States: National Cancer Database Analysis." Eng. In: *Journal of the National Comprehensive Cancer Network : JNCCN* 18.9 (Sep. 2020), pp. 1210-1220. ISSN: 1540-1413. DOI: 10.6004/jnccn.2020.7564. PMID: 32886898.
- [9] E. J. Yoshida, M. Luu, J. M. Clair, et al. "Stage I HPV-positive oropharyngeal cancer: Should all patients receive similar treatments?" Eng. In: *Cancer* 126.1 (Jan. 2020), pp. 58-66. ISSN: 1097-0142. DOI: 10.1002/cncr.32501. PMID: 31536144.
- [10] E. J. Yoshida, M. Luu, M. Freeman, et al. "The association between facility volume and overall survival in patients with Merkel cell carcinoma." Eng. In: *Journal of surgical oncology* 122.2 (Aug. 2020), pp. 254-262. ISSN: 1096-9098. DOI: 10.1002/jso.25931. PMID: 32297324.
- [11] H. H. Zhao, M. Luu, B. Spiegel, et al. "Correlation of Online Physician Rating Subscores and Association With Overall Satisfaction: Observational Study of 212,933 Providers." Eng. In: *Journal of medical Internet research* 22.10 (Oct. 2020), p. e11258. ISSN: 1438-8871. DOI: 10.2196/11258. PMID: 33107826.
- [12] Z. S. Zumsteg, D. E. Spratt, T. J. Daskivich, et al. "Effect of Androgen Deprivation on Long-term Outcomes of Intermediate-Risk Prostate Cancer Stratified as Favorable or Unfavorable: A Secondary Analysis of the RTOG 9408 Randomized Clinical Trial." Eng. In: *JAMA network open* 3.9 (Sep. 2020), p. e2015083. ISSN: 2574-3805. DOI: 10.1001/jamanetworkopen.2020.15083. PMID: 32902647.

## 2021

- [1] J. C. Ahn, M. Lauzon, M. Luu, et al. "Transarterial radioembolization versus systemic treatment for hepatocellular carcinoma with macrovascular invasion: Analysis of the US National Cancer Database." Eng. In: *Journal of nuclear medicine: official publication, Society of Nuclear Medicine* (Apr. 2021). ISSN: 1535-5667. DOI: 10.2967/jnumed.121.261954. PMID: 33837067.
- [2] E. M. Anderson, M. Luu, B. L. Balzer, et al. "Variations in the association of grade with survival across the head and neck cancer landscape." Eng. In: *Head & neck* 43.4 (Apr. 2021), pp. 1105-1115. ISSN: 1097-0347. DOI: 10.1002/hed.26566. PMID: 33300641.
- [3] L. Barrios, I. Shafqat, U. Alam, et al. "Incidental parathyroidectomy in thyroidectomy and central neck dissection." Eng. In: *Surgery* 169.5 (May. 2021), pp. 1145-1151. ISSN: 1532-7361. DOI: 10.1016/j.surg.2020.11.023. PMID: 33446359.
- [4] T. J. Daskivich, M. Luu, S. J. Freedland, et al. "Development and Validation of an Improved Pathological Nodal Staging System in Men with Prostate Cancer." Eng. In: *The Journal of urology* (Oct. 2021), p. 101097JU00000000000002256. ISSN: 1527-3792. DOI: 10.1097/JU.00000000000002256. PMID: 34694160.
- [5] J. David, M. Luu, D. Lu, et al. "Outcomes with brachytherapy based dose escalation for gleason 8 versus 9-10 prostate cancer: An NCDB analysis." Eng. In: *Urologic oncology* 39.12 (Dec. 2021), pp. 829.e19-829.e26. ISSN: 1873-2496. DOI: 10.1016/j.urolonc.2021.04.014. PMID: 34049784.
- [6] M. A. Diniz, G. Gresham, S. Kim, et al. "Visualizing adverse events in clinical trials using correspondence analysis with R-package visae." Eng. In: *BMC medical research methodology* 21.1 (Nov. 2021), p. 244. ISSN: 1471-2288. DOI: 10.1186/s12874-021-01368-w. PMID: 34753452.
- [7] R. Govalan, M. Lauzon, M. Luu, et al. "Comparison of Surgical Resection and Systemic Treatment for Hepatocellular Carcinoma with Vascular Invasion: National Cancer Database Analysis." Eng. In: *Liver cancer* 10.5 (Sep. 2021), pp. 407-418. ISSN: 2235-1795. DOI: 10.1159/000515554. PMID: 34721504.
- [8] N. L. Henry, S. Kim, R. D. Hays, et al. "Toxicity Index, Patient-Reported Outcomes, and Early Discontinuation of Endocrine Therapy for Breast Cancer Risk Reduction in NRG Oncology/NSABP B-35." Eng. In: *Journal of clinical oncology: official journal of the American Society of Clinical Oncology* 39.34 (Dec. 2021), pp. 3800-3812. ISSN: 1527-7755. DOI: 10.1200/JCO.21.00910. PMID: 34554865.
- [9] A. S. Ho, M. Luu, L. Barrios, et al. "Prognostic Impact of Histologic Grade for Papillary Thyroid Carcinoma." Eng. In: *Annals of surgical oncology* 28.3 (Mar. 2021), pp. 1731-1739. ISSN: 1534-4681. DOI: 10.1245/s10434-020-09023-2. PMID: 32808161.
- [10] A. S. Ho, M. Luu, S. Kim, et al. "Nodal staging convergence for HPV- and HPV+ oropharyngeal carcinoma." Eng. In: *Cancer* 127.10 (May. 2021), pp. 1590-1597. ISSN: 1097-0142. DOI: 10.1002/cncr.33414. PMID: 33595897.
- [11] A. S. Ho, M. Luu, I. Shafqat, et al. "Predictive Impact of Metastatic Lymph Node Burden on Distant Metastasis Across Papillary Thyroid Cancer Variants." Eng. In: *Thyroid: official journal of the American Thyroid Association* 31.10 (Oct. 2021), pp. 1549-1557. ISSN: 1557-9077. DOI: 10.1089/thy.2021.0131. PMID: 34470466.
- [12] M. Kaisey, A. J. Solomon, B. L. Guerrero, et al. "Preventing multiple sclerosis misdiagnosis using the "central vein sign": A real-world study". Eng. In: *Multiple sclerosis and related disorders* 48 (Feb. 2021), p. 102671. ISSN: 2211-0356. DOI: 10.1016/j.msard.2020.102671. PMID: 33444958.
- [13] P. K. Kuhlmann, M. Chen, M. Luu, et al. "Patient- and tumor-level risk factors for MRI-invisible prostate cancer." Eng. In: *Prostate cancer and prostatic diseases* 24.3 (Sep. 2021), pp. 794-801. ISSN: 1476-5608. DOI: 10.1038/s41391-021-00330-7. PMID: 33568751.
- [14] Y. Lee, J. J. Wang, M. Luu, et al. "The Mortality and Overall Survival Trends of Primary Liver Cancer in the United States." Eng. In: *Journal of the National Cancer Institute* 113.11 (Nov. 2021), pp. 1531-1541. ISSN: 1460-2105. DOI: 10.1093/jnci/djab079. PMID: 34010422.
- [15] Y. Lee, J. J. Wang, M. Luu, et al. "Comparison of Clinical Features and Outcomes Between Intrahepatic Cholangiocarcinoma and Hepatocellular Carcinoma in the United States." Eng. In: *Hepatology (Baltimore, Md.)* 74.5 (Nov. 2021), pp. 2622-2632. ISSN: 1527-3350. DOI: 10.1002/hep.32007. PMID: 34114675.

- [16] Y. Lee, J. J. Wang, M. Luu, et al. "State-Level HCC Incidence and Association With Obesity and Physical Activity in the United States." Eng. In: *Hepatology (Baltimore, Md.)* 74.3 (Sep. 2021), pp. 1384-1394. ISSN: 1527-3350. DOI: 10.1002/hep.31811. PMID: 33728665.
- [17] A. T. Nguyen, M. Luu, D. J. Lu, et al. "Quantitative metastatic lymph node burden and survival in Merkel cell carcinoma." Eng. In: *Journal of the American Academy of Dermatology* 84.2 (Feb. 2021), pp. 312-320. ISSN: 1097-6787. DOI: 10.1016/j.jaad.2019.12.072. PMID: 31954753.
- [18] A. T. Nguyen, M. Luu, V. P. Nguyen, et al. "Development and Validation of a Modified Pathologic Nodal Classification System for Cutaneous Melanoma." Eng. In: *JAMA surgery* 156.11 (Nov. 2021), p. e214298. ISSN: 2168-6262. DOI: 10.1001/jamasurg.2021.4298. PMID: 34468697.
- [19] A. Shinde, B. Jones, M. Luu, et al. "Factors predictive of 90-day mortality after surgical resection for oral cavity cancer: Development of a recursive partitioning analysis for risk stratification." Eng. In: *Head & neck* 43.9 (Sep. 2021), pp. 2731-2739. ISSN: 1097-0347. DOI: 10.1002/hed.26740. PMID: 34013577.
- [20] M. K. Srour, M. Lee, S. Wolcott-Sapp, et al. "Incidental radiologic findings in breast cancer patients who undergo staging prior to neo-adjuvant chemotherapy." Eng. In: *The breast journal* 27.4 (Apr. 2021), pp. 345-351. ISSN: 1524-4741. DOI: 10.1111/tbj.14172. PMID: 33491830.
- [21] M. Tam, M. Luu, C. A. Barker, et al. "Improved survival in women versus men with merkel cell carcinoma." Eng. In: *Journal of the American Academy of Dermatology* 84.2 (Feb. 2021), pp. 321-329. ISSN: 1097-6787. DOI: 10.1016/j.jaad.2020.02.034. PMID: 32423829.
- [22] K. Vaculik, M. Luu, L. E. Howard, et al. "Time Trends in Use of Radical Prostatectomy by Tumor Risk and Life Expectancy in a National Veterans Affairs Cohort." Eng. In: *JAMA network open* 4.6 (Jun. 2021), p. e2112214. ISSN: 2574-3805. DOI: 10.1001/jamanetworkopen.2021.12214. PMID: 34081138.
- [23] A. Vipani, M. Lauzon, M. Luu, et al. "Decreasing Trend of Serum  $\alpha$ -Fetoprotein Level in Hepatocellular Carcinoma." Eng. In: *Clinical gastroenterology and hepatology : the official clinical practice journal of the American Gastroenterological Association* (Aug. 2021). ISSN: 1542-7714. DOI: 10.1016/j.cgh.2021.08.011. PMID: 34391921.

## Peer Reviewed Publications

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### 2022

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[1] T. J. Daskivich, R. Gale, M. Luu, et al. "Patient Preferences for Communication of Life Expectancy in Prostate Cancer Treatment Consultations." Eng. In: *JAMA surgery* 157.1 (Jan. 2022), pp. 70-72. ISSN: 2168-6262. DOI: 10.1001/jamasurg.2021.5803. PMID: 34757389.

[2] R. Govalan, M. Luu, M. Lauzon, et al. "Therapeutic Underuse and Delay in Hepatocellular Carcinoma: Prevalence, Associated Factors, and Clinical Impact." Eng. In: *Hepatology communications* 6.1 (Jan. 2022), pp. 223-236. ISSN: 2471-254X. DOI: 10.1002/hep4.1795. PMID: 34558830.



