



## Carolyn Dacey Seib, MD, MAS

Associate Professor of Surgery (General Surgery)

Surgery - General Surgery

### CLINICAL OFFICE (PRIMARY)

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### Bio

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#### BIO

Dr. Carolyn Dacey Seib is a fellowship-trained endocrine surgeon and board-certified general surgeon who specializes in surgery of the thyroid, parathyroid, and adrenal glands. In 2025, she was among the first surgeons in the United States to earn a Focused Practice Designation in Complex Thyroid and Parathyroid Surgery from the American Board of Surgery, reflecting her expertise in these procedures and related patient management.

Dr. Seib provides comprehensive and personalized care for patients with thyroid, parathyroid, and adrenal disorders, including thyroid cancer, hyperthyroidism, primary hyperparathyroidism, primary aldosteronism, autonomous cortisol secretion, and pheochromocytomas. Her approach combines advanced surgical techniques with a focus on patient-centered outcomes, ensuring that each treatment plan is tailored to the individual.

In addition to her clinical practice, Dr. Seib is an NIH-funded researcher whose work focuses on optimizing surgical decision-making and outcomes for patients with endocrine disorders. She has received research support from the National Institute on Aging and the American Thyroid Association, and her studies have been published in leading peer-reviewed journals and featured in national media, including The New York Times.

Dr. Seib completed her undergraduate education at Princeton University (summa cum laude), earned her medical degree from the New York University School of Medicine, and completed her general surgery residency and endocrine surgery fellowship at the University of California, San Francisco (UCSF).

#### CLINICAL FOCUS

- Endocrine Surgery
- Thyroid Cancer
- Thyroid Nodules
- Primary Hyperparathyroidism
- Hyperthyroidism

- Primary Aldosteronism
- Adrenal Cushing's Syndrome
- Pheochromocytoma
- General Surgery

## ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Surgery - General Surgery

## PROFESSIONAL EDUCATION

- Medical Education: New York University School of Medicine (2009) NY
- Residency: UCSF Dept of General Surgery (2016) CA
- Board Certification: General Surgery, American Board of Surgery (2017)
- Fellowship: UCSF Endocrine Surgery Fellowship (2017) CA

## Publications

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### PUBLICATIONS

- **Estimated Effect of Parathyroidectomy on Long-Term Kidney Function in Adults With Primary Hyperparathyroidism.** *Annals of internal medicine*  
Seib, C. D., Ganesan, C., Tamura, M. K.  
2023; 176 (11): eL230280
- **Operative Management of Thyroid Disease in Older Adults.** *Journal of the Endocrine Society*  
Kim, J., Seib, C. D.  
2023; 7 (7): bvad070
- **A Contemporary Review of the Treatment of Medullary Thyroid Carcinoma in the Era of New Drug Therapies.** *Surgical oncology clinics of North America*  
Seib, C. D., Beck, T. C., Kebebew, E.  
2023; 32 (2): 233-250
- **Adverse Cardiovascular Outcomes Among Older Adults with Primary Hyperparathyroidism Treated with Parathyroidectomy vs. non-operative Management.** *Annals of surgery*  
Seib, C. D., Meng, T., Cisco, R. M., Suh, I., Lin, D. T., Harris, A. H., Trickey, A. W., Tamura, M. K., Kebebew, E.  
2022
- **Risk of Fracture Among Older Adults With Primary Hyperparathyroidism Receiving Parathyroidectomy vs Nonoperative Management.** *JAMA internal medicine*  
Seib, C. D., Meng, T., Suh, I., Harris, A. H., Covinsky, K. E., Shoback, D. M., Trickey, A. W., Kebebew, E., Tamura, M. K.  
2021
- **Patient Factors Associated With Parathyroidectomy in Older Adults With Primary Hyperparathyroidism.** *JAMA surgery*  
Seib, C. D., Suh, I., Meng, T., Trickey, A., Smith, A. K., Finlayson, E., Covinsky, K. E., Kurella Tamura, M., Kebebew, E.  
2021
- **Workforce growth without reach: National trends in access to high-volume parathyroid surgeons.** *Surgery*  
Delaney, L. D., Dudek, Z., Weldon, P., Cisco, R. M., Kebebew, E., Seib, C. D.  
2026; 194: 110188
- **Modern advances in parathyroid surgery: A survey of North American surgeon associations.** *American journal of otolaryngology*  
Staubano, P., Au, M., Zhang, H., Pasternak, J. D., Busse, J. W., Parpia, S., Orloff, L., Seib, C. D., Nguyen, N. T., Monteiro, E., McKechnie, T., Thabane, A., Gupta, et al  
2026; 47 (3): 104807
- **Utilization of thyroid ultrasound and surgery after glucagon-like peptide-1 receptor agonist prescription.** *Surgery*

- Delaney, L. D., Day, H., Arnow, K., Cisco, R. M., Eisenberg, D., Tamura, M. K., Suh, I., Kebebew, E., Seib, C. D.  
2026; 192: 110042
- **Overscreening of patients on glucagon-like peptide-1 receptor agonists: A second "epidemic" of thyroid cancer overdiagnosis?** *Surgery*  
Raghunathan, R., Jacobs, A., Gajic, Z., Castiglioni, S., Dawood, N., Arthurs, L., Ranjbar, S., Rothberger, G. D., Seib, C. D., Prescott, J., Allendorf, J., Liou, R., Suh, et al  
2026; 189: 109868
  - **Intraoperative parathyroid hormone monitoring criteria in secondary and tertiary hyperparathyroidism: A systematic review.** *Current problems in surgery*  
Staibano, P., Au, M., Zhang, H., Pasternak, J. D., Seib, C. D., Orloff, L., Xing, X., Yu, S., Liu, W., Busse, J. W., Parpia, S., Nguyen, N. T., McKechnie, et al  
2025; 73: 101934
  - **Utility of 4-dimensional computed tomography in predicting single-gland parathyroid disease-Can we abandon intraoperative parathyroid monitoring?** *Surgery*  
Lui, M. S., Fisher, J. C., Berger, N., Gordon, A. J., Wright, K., Nguyen, V., Persky, M. J., Givi, B., Seib, C. D., Allendorf, J. D., Prescott, J. D., Patel, K. N., Suh, et al  
2025; 182: 109327
  - **Intraoperative Parathyroid Hormone Monitoring Criteria in Primary Hyperparathyroidism: A Network Meta-Analysis of Diagnostic Test Accuracy.** *JAMA otolaryngology-- head & neck surgery*  
Staibano, P., Au, M., Zhang, H., Yu, S., Liu, W., Pasternak, J. D., Xing, X., Seib, C. D., Orloff, L., Nguyen, N. T., Gupta, M. K., Monteiro, E., Parpia, et al  
2024
  - **Frailty and Long-Term Health Care Utilization After Elective General and Vascular Surgery.** *JAMA surgery*  
Dossabhoy, S. S., Graham, L. A., Kashikar, A., George, E. L., Seib, C. D., Tamura, M. K., Wagner, T. H., Hawn, M. T., Arya, S.  
2024
  - **Predicting the Risk of Untreated Primary Hyperparathyroidism and Parathyroidectomy to Inform and Individualize Treatment Decisions**  
Delaney, L. D., Day, H. S., Suh, I., Cisco, R. M., Harris, A., Tamura, M., Seib, C. D.  
LIPPINCOTT WILLIAMS & WILKINS.2024: S124-S125
  - **Can large language models address unmet patient information needs and reduce provider burnout in the management of thyroid disease?** *Surgery*  
Raghunathan, R., Jacobs, A. R., Sant, V. R., King, L. J., Rothberger, G., Prescott, J., Allendorf, J., Seib, C. D., Patel, K. N., Suh, I.  
2024
  - **Parathyroidectomy and the Development of New Depression Among Adults With Primary Hyperparathyroidism.** *JAMA surgery*  
Delaney, L. D., Furst, A., Day, H., Arnow, K., Cisco, R. M., Kebebew, E., Montez-Rath, M. E., Tamura, M. K., Seib, C. D.  
2024
  - **Effect of Starting Dialysis Versus Continuing Medical Management on Survival and Home Time in Older Adults With Kidney Failure : A Target Trial Emulation Study.** *Annals of internal medicine*  
Montez-Rath, M. E., Thomas, I. C., Charu, V., Odden, M. C., Seib, C. D., Arya, S., Fung, E., O'Hare, A. M., Wong, S. P., Kurella Tamura, M.  
2024
  - **Benefits and Risks Associated With Antibiotic Prophylaxis for Thyroid Operations.** *The Journal of surgical research*  
Squires, S. D., Cisco, R. M., Lin, D. T., Trickey, A. W., Kebebew, E., Gombar, S., Yuan, Y., Seib, C. D.  
2024; 302: 463-468
  - **AI Imaging Analysis Needs Evaluation Before Implementation.** *JAMA surgery*  
Seib, C. D., Wren, S. M.  
2024
  - **Disparities in access to high-volume parathyroid surgeons in the United States: A call to action.** *Surgery*  
Wright, K., Squires, S., Cisco, R., Trickey, A., Kebebew, E., Suh, I., Seib, C. D.  
2023
  - **Estimated Effect of Parathyroidectomy on Long-Term Kidney Function in Adults With Primary Hyperparathyroidism** *ANNALS OF INTERNAL MEDICINE*

- Seib, C. D., Ganesan, C., Tamura, M.  
2023; 176 (11): eL230279
- **Estimated Effect of Parathyroidectomy on Long-Term Kidney Function in Adults With Primary Hyperparathyroidism.** *Annals of internal medicine*  
Seib, C. D., Ganesan, C., Furst, A., Pao, A. C., Chertow, G. M., Leppert, J. T., Suh, I., Montez-Rath, M. E., Harris, A. H., Trickey, A. W., Kebebew, E., Tamura, M. K.  
2023
  - **Increased Risk of Complications Associated With Concurrent Parathyroidectomy in Patients Undergoing Total Thyroidectomy.** *The Journal of surgical research*  
Cisco, R., Arnow, K., Barreto, N., Lin, D., Kebebew, E., Seib, C.  
2023; 288: 275-281
  - **Risk of permanent hypoparathyroidism requiring calcitriol therapy in a population-based cohort of adults older than 65 undergoing total thyroidectomy for Graves' disease.** *Thyroid : official journal of the American Thyroid Association*  
Seib, C. D., Meng, T., Cisco, R. M., Lin, D. T., McAninch, E. A., Chen, J., Tamura, M. K., Trickey, A. W., Kebebew, E.  
2022
  - **Preventive Health Screening in Veterans Undergoing Bariatric Surgery.** *American journal of preventive medicine*  
Stoltz, D. J., Liebert, C. A., Seib, C. D., Bruun, A., Arnow, K. D., Barreto, N. B., Pratt, J. S., Eisenberg, D.  
2022
  - **A Tool to Estimate Risk of 30-day Mortality and Complications After Hip Fracture Surgery: Accurate Enough for Some but Not All Purposes? A Study From the ACS-NSQIP Database.** *Clinical orthopaedics and related research*  
Harris, A. H., Trickey, A. W., Eddington, H. S., Seib, C. D., Kamal, R. N., Kuo, A. C., Ding, Q., Giori, N. J.  
2022
  - **Kidney stone events following parathyroidectomy vs. non-operative management for primary hyperparathyroidism.** *The Journal of clinical endocrinology and metabolism*  
Seib, C. D., Ganesan, C., Arnow, K. D., Pao, A. C., Leppert, J. T., Barreto, N. B., Kebebew, E., Tamura, M. K.  
2022
  - **Factors associated with postoperative complications and costs for adrenalectomy in benign adrenal disorders.** *Surgery*  
Sung, T., Tennakoon, L., Alobuia, W. M., Seib, C., Cisco, R., Lin, D., Kebebew, E.  
2021
  - **Superior sensitivity of 18F-fluorocholine: PET localization in primary hyperparathyroidism.** *Surgery*  
Graves, C. E., Hope, T. A., Kim, J., Pampaloni, M. H., Kluijfhout, W., Seib, C. D., Gosnell, J. E., Shen, W. T., Roman, S. A., Sosa, J. A., Duh, Q., Suh, I.  
2021
  - **Racial disparities in the utilization of parathyroidectomy among patients with primary hyperparathyroidism: Evidence from a nationwide analysis of Medicare claims.** *Surgery*  
Alobuia, W. M., Meng, T., Cisco, R. M., Lin, D. T., Suh, I., Tamura, M. K., Trickey, A. W., Kebebew, E., Seib, C. D.  
2021
  - **Association of parathyroidectomy with 5-year clinically significant kidney stone events in patients with primary hyperparathyroidism.** *Endocrine practice : official journal of the American College of Endocrinology and the American Association of Clinical Endocrinologists*  
Seib, C. D., Ganesan, C., Arnow, K. D., Suh, I., Pao, A. C., Leppert, J. T., Tamura, M. K., Trickey, A. W., Kebebew, E.  
2021
  - **Accuracy of 18F-fluorocholine PET for the detection of parathyroid adenomas: prospective single center study**  
Hope, T., Graves, C., Calais, J., Ehman, E., Johnson, G., Thompson, D., Duh, Q., Seib, C., Maya, A., Gosnell, J., Wen, S., Roman, S., Sosa, et al  
SOC NUCLEAR MEDICINE INC.2021
  - **Accuracy of 18F-fluorocholine PET for the detection of parathyroid adenomas: prospective single center study.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*  
Hope, T. A., Graces, C., Calais, J., Ehman, E., Johnson, G. B., Thompson, D., Aslam, M., Duh, Q., Gosnell, J., Shen, W., Roman, S., Sosa, J. A., Kluijfhout, et al

2021

- **Prioritizing Quality Improvement in Geriatric Surgery in 7 Veterans Administration Hospitals: Current Levels of Implementation of Standards Defined by the American College of Surgeons: Geriatric Surgery Verification Program through Structured Processes**  
Kazaure, H., Lagoo-Deenadayalan, S. A., Ahuja, V., Seib, C., Balentine, C., Iannuzzi, J., Robinson, T., Russell, M.  
ELSEVIER SCIENCE INC.2020: E24–E25
- **Postoperative Function as a Measure of Quality in Geriatric Surgical Care-Can We Do Better?** *JAMA surgery*  
Seib, C. D., Arya, S.  
2020
- **Anatomic Variations From 120 Mental Nerve Dissections: Lessons for Transoral Thyroidectomy.** *The Journal of surgical research*  
King, S. D., Arellano, R., Gordon, V., Olinger, A., Seib, C. D., Duh, Q., Suh, I.  
2020; 256: 543–48
- **Analysis of Primary Hyperparathyroidism Screening Among US Veterans With Kidney Stones.** *JAMA surgery*  
Ganesan, C., Weia, B., Thomas, I., Song, S., Velaer, K., Seib, C. D., Conti, S., Elliott, C., Chertow, G. M., Kurella Tamura, M., Leppert, J. T., Pao, A. C.  
2020
- **Reducing Opioid Use in Endocrine Surgery Through Patient Education and Provider Prescribing Patterns.** *The Journal of surgical research*  
Kwan, S. Y., Lancaster, E., Dixit, A., Inglis-Arkel, C., Manuel, S., Suh, I., Shen, W. T., Seib, C. D.  
2020; 256: 303–10
- **Undertreatment of primary hyperparathyroidism in a privately insured US population: Decreasing utilization of parathyroidectomy despite expanding surgical guidelines.** *Surgery*  
Seib, C. D., Meng, T., Suh, I., Cisco, R. M., Lin, D. T., Morris, A. M., Trickey, A. W., Kebebew, E.  
2020
- **Patient complexity by surgical specialty does not correlate with work relative value units.** *Surgery*  
Ramirez, J. L., Gasper, W. J., Seib, C. D., Finlayson, E., Conte, M. S., Sosa, J. A., Iannuzzi, J. C.  
2020
- **The influence of cosmetic concerns on patient preferences for approaches to thyroid lobectomy: A discrete choice experiment.** *Thyroid : official journal of the American Thyroid Association*  
Sukpanich, R., Sanglestsawai, S., Seib, C. D., Gosnell, J. E., Shen, W. T., Roman, S., Sosa, J. A., Duh, Q., Suh, I.  
2020
- **Shifting Trends and Informed Decision Making in the Management of Graves' Disease.** *Thyroid : official journal of the American Thyroid Association*  
Seib, C. D., Chen, J. n., Iagaru, A. n.  
2020
- **Ensemble machine learning for the prediction of patient-level outcomes following thyroidectomy.** *American journal of surgery*  
Seib, C. D., Roose, J. P., Hubbard, A. E., Suh, I. n.  
2020
- **Trends in Adrenal Surgery-The Changing Nature of Tumors and Patients** *JOURNAL OF SURGICAL RESEARCH*  
Chen, Y., Chomsky-Higgins, K., Nwaogu, I., Gosnell, J. E., Seib, C., Shen, W. T., Suh, I., Duh, Q.  
2019; 236: 129–33
- **Treatment of Primary Aldosteronism Reduces the Probability of Obstructive Sleep Apnea** *JOURNAL OF SURGICAL RESEARCH*  
Wang, E., Chomsky-Higgins, K., Chen, Y., Nwaogu, I., Seib, C. D., Shen, W. T., Duh, Q., Suh, I.  
2019; 236: 37–43
- **Invasive Procedures to Improve Function in Frail Older Adults Do Outcomes Justify the Intervention?** *JAMA INTERNAL MEDICINE*  
Seib, C. D., Finlayson, E.  
2019; 179 (3): 391–93
- **Risk Factors Associated With Perioperative Complications and Prolonged Length of Stay After Laparoscopic Adrenalectomy** *JAMA SURGERY*

- Chen, Y., Scholten, A., Chomsky-Higgins, K., Nwaogu, I., Gosnell, J. E., Seib, C., Shen, W. T., Suh, I., Duh, Q.  
2018; 153 (11): 1036–41
- **Association of Patient Frailty With Increased Risk of Complications After Adrenalectomy** *JAMA SURGERY*  
Anderson, J. E., Seib, C. D., Campbell, M. J.  
2018; 153 (10): 966–67
  - **Patient Frailty Should Be Used to Individualize Treatment Decisions in Primary Hyperparathyroidism** *WORLD JOURNAL OF SURGERY*  
Seib, C. D., Chomsky-Higgins, K., Gosnell, J. E., Shen, W. T., Suh, I., Duh, Q., Finlayson, E.  
2018; 42 (10): 3215–22
  - **Postoperative Pain and Opioid Use after Thyroid and Parathyroid Surgery: A Novel, Prospective Short Messaging Service-Based Survey**  
Chen, Y., Nwaogu, I., Chomsky-Higgins, K. H., Seib, C. D., Gosnell, J. E., Shen, W. T., Duh, Q., Suh, I.  
ELSEVIER SCIENCE INC.2018: E121
  - **Parathyroid Cryopreservation: Clinical Applications in the Era of Synthetic Parathyroid Hormone**  
Nwaogu, I., Sedaghati, M., Sukpanich, R., Chomsky-Higgins, K. H., Chen, Y., Seib, C. D., Suh, I., Shen, W. T., Gosnell, J. E., Duh, Q.  
ELSEVIER SCIENCE INC.2018: E120
  - **Hidden in Plain Sight: Transoral and Submental Thyroidectomy as a Compelling Alternative to "Scarless" Thyroidectomy** *JOURNAL OF LAPAROENDOSCOPIC & ADVANCED SURGICAL TECHNIQUES*  
Chen, Y., Chomsky-Higgins, K., Nwaogu, I., Seib, C. D., Gosnell, J. E., Shen, W. T., Duh, Q., Suh, I.  
2018; 28 (11): 1374–77
  - **Association of Patient Frailty With Increased Morbidity After Common Ambulatory General Surgery Operations** *JAMA SURGERY*  
Seib, C. D., Rochefort, H., Chomsky-Higgins, K., Gosnell, J. E., Suh, I., Shen, W. T., Duh, Q., Finlayson, E.  
2018; 153 (2): 160–68
  - **Less is more: cost-effectiveness analysis of surveillance strategies for small, nonfunctional, radiographically benign adrenal incidentalomas**  
Chomsky-Higgins, K., Seib, C., Rochefort, H., Gosnell, J., Shen, W. T., Kahn, J. G., Duh, Q., Suh, I.  
MOSBY-ELSEVIER.2018: 197–203
  - **The Underestimated Risk of Cancer in Patients with Multinodular Goiters After a Benign Fine Needle Aspiration** *WORLD JOURNAL OF SURGERY*  
Campbell, M. J., Seib, C. D., Candell, L., Gosnell, J. E., Quan-Yang Duh, Clark, O. H., Shen, W. T.  
2015; 39 (3): 695–700
  - **Differences Between Bilateral Adrenal Incidentalomas and Unilateral Lesions.** *JAMA surgery*  
Pasternak, J. D., Seib, C. D., Seiser, N. n., Tyrell, J. B., Liu, C. n., Cisco, R. M., Gosnell, J. E., Shen, W. T., Suh, I. n., Duh, Q. Y.  
2015; 150 (10): 974–78
  - **Utility of serum thyroglobulin measurements after prophylactic thyroidectomy in patients with hereditary medullary thyroid cancer** *SURGERY*  
Seib, C. D., Harari, A., Conte, F. A., Duh, Q., Clark, O. O. H., Gosnell, J. E.  
2014; 156 (2): 394–98
  - **Adrenalectomy Outcomes Are Superior with the Participation of Residents and Fellows** *JOURNAL OF THE AMERICAN COLLEGE OF SURGEONS*  
Seib, C. D., Greenblatt, D. Y., Campbell, M. J., Shen, W. T., Gosnell, J. E., Clark, O. H., Duh, Q.  
2014; 219 (1): 53–60
  - **Vandetanib and the management of advanced medullary thyroid cancer** *CURRENT OPINION IN ONCOLOGY*  
Campbell, M. J., Seib, C. D., Gosnell, J.  
2013; 25 (1): 39–43