

# CHOP Research Institute Summer Scholars Program



**Andrew J. Bauer, M.D.**

Endocrinology

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**Clinical Research:** Patient-oriented research examining the safety and effectiveness of diagnostics, medicines or medical devices (may involve human subjects or data collected from human subjects)

## Pediatric Thyroid Disorders

Our research is focused on determining predictors of malignancy in patients with thyroid nodules, improved medical and surgical management for both benign and malignant thyroid disorders, and the behavioral and neurocognitive impact of living with, and being treated for, thyroid cancer and autoimmune hyperthyroidism.

- **Potential summer research project:**

(1) Exploration of molecular markers associated with thyroid cancer metastasis and response to therapy; (2) Exploring factors associated with complications of surgical and medical treatment of pediatric thyroid disease; (3) Defining a best approach to low vs. high risk thyroid cancer (multi-center study) (4) Neurocognitive evaluation of patients with autoimmune hyperthyroidism; (5) Health-related quality of life for pediatric patients with thyroid cancer; and (6) Evaluation of factors that contribute to self-esteem in adolescence treated with thyroidectomy of Graves' disease; (7) Exploring the role of diet in autoimmune thyroid disease

- **Students will learn the following techniques:**

(1) Clinical database management and chart review; (2) Research protocol design, submission, and scientific writing skills; and (3) Patient interview and interaction skills.

Please click [here](#) to read more about Dr. Bauer