

Neuroradiology Rotation

Course Director

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Administrative Contact

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Rotation Overview

The Neuroradiology rotation for Otolaryngology/Head and Neck Surgery residents consists of focused observation of head/neck imaging case reviews, didactic lectures and case presentations. Residents will review sinus, temporal bone, orbit and neck CTs, facial, skull base and neck MRI scans for patients presenting to the emergency room, within the hospital, and for outpatient evaluation, with an emphasis on patients currently managed by Head and Neck Surgery.

Residents are expected to attend weekly Wednesday Head/Neck Tumor Board, followed by case review with Dr. Bykowski. Residents are invited to attend Thursday morning Neuroradiology conferences and to present a case review at one of the conferences during their rotation. Additional didactic lectures are available within the department, as well as the opportunity to observe multidisciplinary conferences and tumor boards. This instruction is to be supplemented with guided independent study. Residents are also expected to continue to participate in scheduled Head and Neck Surgery didactic sessions and clinical requirements.

Learning Objectives

- Familiarity with neck, sinus, temporal bone, orbit, and cerebrovascular anatomy and landmarks on imaging.
- Understanding MRI screening, contraindications to MRI, and limitations for conditional devices.
- Knowledge of UCSD imaging protocol options for head/neck symptom evaluation, operative guidance, and surveillance.
- Familiarity with appropriate use for head/neck imaging and contrast premedication.
- Exposure to anterior skull base and posterior fossa cases.
- Development of working relationship with Neuroradiology faculty, fellows and Radiology residents as a resource during training and for patient care.

Where to Report

Please email Dr Bykowski the week prior to coming on service to confirm schedule. Conferences and imaging review is virtual at this time.

Neuroradiology Faculty

Clinical coverage schedules are posted on radres.ucsd.edu Schedules>Faculty schedules>Neuro

Div Bolar, MD, PhD
Julie Bykowski, MD
Jennifer Chang, MD
Steve Dorros, MD
Niky Farid, MD

Yang Guo, MD
Jason Handwerker, MD
Marin McDonald, MD, PhD
Alex Norbash, MD
Scott Pannell, MD

Recommended Reading and Resources

Univ Wisconsin Learning Neuroradiology and Virtual Neuroradiology Elective
<https://sites.google.com/a/wisc.edu/neuroradiology/virtual-neuroradiology-elective>
<https://sites.google.com/a/wisc.edu/neuroradiology/home>

MRI safety (UCSF video 1:30 minutes)

<https://youtu.be/gMAAGVLjP9s> or <https://radiology.ucsf.edu/blog/ucsf-radiology-shares-information-about-mri-safety>

Intro to MRI sequences (Radiopedia's Frank Gaillard, 13 minutes)

<https://www.youtube.com/watch?v=DYXEGY-X1n8>

UCSD IV Contrast Guidelines

<https://ishare.ucsd.edu/sites/radres/Shared%20Documents/Rad%20Res%20Documents/Policies/WD1111.pdf>

MRI Safety (includes the searchable list for device make/model/compatibility)

<https://www.mrisafety.com/>

ACR Appropriateness Criteria

<https://www.acr.org/Clinical-Resources/ACR-Appropriateness-Criteria>

ASHRN/ESHNR webinar series

<https://ashnr.org/ashnr-eshnr-hnxhn/>

AJNR Case of the week

<http://www.ajnr.org/cow/by/year>

Neurographics Journal focused on education/case series

<https://www.ingentaconnect.com/content/asnr/ng;jsessionid=srzpwwiys0rs.x-ic-live-02>

Radiology Assistant

<https://radiologyassistant.nl/>

Neuroradiology U (emphasis on pediatric cases)

<https://www.neuroradiologyu.com/>

Additional Educational Opportunities

Radiology resident conferences are posted at radres.ucsd.edu under "Conferences"

For multidisciplinary conferences, please reach out to contacts to confirm if conference is virtual or in person.

Neuroradiology Conference

Audrey Keane adkeane@health.ucsd.edu

Skull Base Conference

Marin McDonald, MD, PhD mamcdonald@health.ucsd.edu

Head/Neck Tumor Board

Julie Bykowski, MD jbykowski@health.ucsd.edu