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Ghana Neuroradiology Teaching Visit Report

I arrived in Ghana on Sunday morning and was warmly welcomed at the airport by Dr. Delano Amuzu, a radiology resident, who accompanied me to my hotel. Despite heavy rain on arrival, the journey was smooth, and I was looking forward to the week of teaching ahead.

All teaching sessions were delivered in person and attracted approximately 130 participants, with 20–30 attending in person and approximately 100 joining online. The audience included radiology residents and faculty, as well as trainees and specialists from another two sister radiology program in country, Neurology, Neurosurgery, ENT, and other specialties affiliated with the Ghana College of Physicians and Surgeons.





Day 1 (Monday)

Dr. Delano Amuzu picked me up from the hotel at 7:00 AM, and we arrived at the hospital ahead of the start of the academic program. During the drive, he provided an informative introduction to the hospital and an overview of the radiology department.

Upon arrival, I was warmly welcomed by Dr. Hafisatu Gbadamosi, Head of the Department, and the radiology faculties.

The academic program commenced at 8:00 AM. Despite brief internet connectivity issues, the sessions proceeded smoothly. I began with an interactive lecture on **Basic Neuroanatomy**, which was well received and generated active participation from the residents. Following a brief 10-minute break, I delivered a lecture on **Central Nervous System (CNS) Infections**, followed by a one-hour interactive case-based discussion that allowed participants to apply the concepts presented during the lecture.

The morning concluded with a lecture on **CNS Infections in Immunocompromised Patients**, which prompted enthusiastic participation and meaningful discussion among the residents. The morning's academic sessions were moderated by Dr. Hafisatu Gbadamosi.

During lunch, I met with Dr. Yvonne Mawudor, a first-year radiology resident originally from Kenya. She provided an overview of the Ghanaian radiology residency program and shared her experiences as a trainee, providing valuable insight into the program and the educational environment.

The afternoon academic program included a one-hour case-based discussion, followed by a lecture on **White Matter Diseases**. The sessions concluded at 3:00 PM and were moderated by Dr. John Krik-Atison, the third-year Chief Resident.

Following the academic sessions, I toured the radiology department, where I had the opportunity to meet additional faculty members and residents and exchange ideas and experiences regarding radiology education and training.

In the evening, Dr. Delano Amuzu took me on a tour of the Ghana Museum, which was both educational and enjoyable and provided an opportunity to learn more about the country's history and culture. He then returned me to the hotel at approximately 5:30 PM.





Day 2 (Tuesday)

Due to heavy traffic, we departed early and arrived at the hospital before 8:00 AM.

The morning sessions were moderated by Dr. Dorothea Anim Amoh and Dr. Simpson, who provided valuable insights into radiology practice in Ghana, preparation for board

examinations, and the spectrum of pathology commonly encountered in the country. They also shared an overview of the history and evolution of Ghana's radiology residency training program over the past four decades.

The morning academic program included:

- **Congenital White Matter Disorders**
- **Stroke Imaging**
- **Two interactive case-based review sessions**

During lunch, I met with Dr. Howard, a senior resident, who shared his experience during a six-month rotation at the University of Pennsylvania. He also described the educational exchange program between Ghana and the United States, through which one or two residents are selected each year for international training.

The afternoon academic sessions included:

- **Brain Tumors and Multiparametric Imaging**
- **Sellar and Suprasellar Imaging**

The afternoon sessions were moderated by Dr. Dinah Otoo, a third-year resident.

Following the lectures, I reviewed real-time clinical cases with the residents, discussing imaging findings, differential diagnoses, and practical approaches to diagnostic interpretation. These case-based discussions provided an excellent opportunity to connect the didactic material with the clinical challenges encountered in daily practice.





Day 3 (Wednesday)

Teaching began at 8:00 AM. I met Dr. Juliana Labi, an interventional body radiologist, who moderated the morning sessions.

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The day began with a lecture on **CSF Leak Imaging and Management**, attended by approximately 130 participants via Zoom and 30–35 participants in person, including numerous faculty members. The session was highly interactive and generated considerable interest among the participants.

This was followed by a one-hour brain tumor case-based discussion. After a brief break, I delivered an interactive lecture on **CNS Imaging of Vascular Malformations**, followed by an additional hour of case-based discussion. The combination of didactic teaching and practical case review provided an excellent opportunity to reinforce key imaging concepts and diagnostic approaches.

During lunch, I met with Dr. Theodore and Dr. Howard, who provided an overview of Ghana's residency selection process and medical school curriculum. They were also interested in learning about radiology training in the United States, leading to an engaging discussion about residency training, fellowship opportunities, and career development.

The afternoon academic program included lectures on:

- **Movement Disorders**
- **Incidental Anatomic Variants in Neuroradiology**

The afternoon sessions were moderated by Dr. Nana Segu Yawson, Deputy Chief Resident (third year). The formal academic program concluded at 3:00 PM. Following the scheduled lectures, several senior residents presented challenging clinical cases for review and consultation, providing an additional opportunity for collaborative discussion and practical teaching.



Day 4 (Thursday)

The day began at 8:00 AM with a lecture on **Congenital Brain Lesions**. Brief internet connectivity issues caused a short interruption, but the lecture was successfully completed.

This was followed by a one-hour **senior board review case session**, with active participation from the residents.

After a short break, I presented an interactive lecture on **Interesting ENT Imaging Cases**, incorporating multiple-choice questions and case-based discussions. The session was moderated by Dr. Araba Ghartey and generated considerable interest and discussion among the participants.

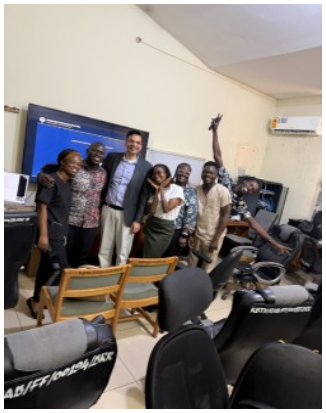
During lunch, I met with Dr. Howard, who provided an overview of Ghana's healthcare system, including the burden of cancer and HIV-related diseases. We also discussed the radiology residency selection process and the structure of specialist training in Ghana.

The afternoon academic program included:

- **Senior Board Review Cases**
- **Neuroradiology Signs**

The afternoon sessions were moderated by Dr. Agyare, a fourth-year resident. Residents remained highly engaged throughout the discussions, with the senior residents asking detailed questions about the structure of the **American Board of Radiology (ABR)** examinations and strategies for preparation.

Later in the day, I met with Dr. Hafisatu Gbadamosi and another faculty member, who shared their experiences participating in a recent training program in Singapore. The day concluded with a consultation on a complex spine case presented by the senior residents, providing an additional opportunity for collaborative case review and discussion.





Day 5 (Friday)

The final teaching day began with an engaging discussion with a senior resident regarding **Nuclear Medicine fellowship opportunities in the United States**.

The academic program began at 8:00 AM with an interactive lecture on **Inflammatory and Neoplastic Disorders of the Spine**. The residents participated enthusiastically, contributing thoughtful questions and engaging actively in the discussion. The morning sessions were moderated by Dr. Dorothea Anim Amoh and Dr. Hafisatu Gbadamosi.

This was followed by lectures on:

- **Spine Trauma**
- **Degenerative Spine Disorders**

After a short break, we conducted **board-style case review sessions**, which were particularly well received by the senior residents and provided an opportunity to reinforce key diagnostic concepts and examination strategies.

The formal teaching program concluded at approximately 12:15 PM. Following the scheduled sessions, I reviewed real-time clinical cases presented by the residents on PACS, discussing the imaging findings, differential diagnoses, and appropriate diagnostic approaches.

At the conclusion of the course, the department presented me with traditional Ghanaian shirts as a token of appreciation. Dr. Hafisatu Gbadamosi, faculty members, and residents expressed their gratitude for the opportunity to dedicate the week to neuroradiology education. A departmental group photograph was also taken to commemorate the visit.

During lunch, we discussed opportunities for **international observerships, internships, and fellowships**, as well as potential future educational collaborations and exchange programs between Ghana and the United States.

That evening, the department hosted a farewell dinner attended by faculty members and residents. The gathering provided an excellent opportunity for informal discussions about neuroradiology practice, career development, and international training pathways.

The Chief Resident expressed the residents' sincere appreciation for the week of teaching and invited me to return for future educational visits. The residents emphasized the value of the lectures, case-based discussions, and mentorship, particularly the insights shared regarding neuroradiology practice and training in the United States.





Summary

The week-long educational visit was highly successful, with outstanding participation from radiology residents, faculty members, and trainees from Neurology, Neurosurgery, ENT, and other specialties. Over five days, I delivered a comprehensive series of neuroradiology lectures, conducted multiple board-style case review sessions, reviewed real-time clinical cases, and participated in meaningful academic discussions regarding residency education, fellowship opportunities, and international collaboration.

The hospitality shown by the faculty and residents was exceptional. The visit strengthened professional relationships, fostered future educational collaborations, and highlighted a shared commitment to advancing neuroradiology education through continued international partnership. The enthusiastic engagement of the residents and faculty throughout the week underscored the value of sustained educational exchange and laid the foundation for future collaborative teaching initiatives.

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