

## Summary Report Outreach to Accra, Ghana June 15-20, 2025

I was the Anne G. Osborn ASNR International Outreach Professor for the Department of Radiology, at the Korle Bu Teaching Hospital in Accra, Ghana for 1 week in June 2025, from June 15-21. My trip included giving up to a total of approximately 20 lectures, and daily 2-hour board reviews that were unknown cases the first two days and a competitive case review Jeopardy session dividing the trainees into Team Korle and Team Bu for the last three days! I was very honored to be selected to represent ASNR and had a phenomenal visit, teaching and learning experience.

My first stop was a direct flight from New York City, landing in the Kotoka International Airport in Accra, Ghana where I was greeted by my host and Chair of the Department of Radiology Dr. Hafi Gbadamosi and the 2nd year radiology resident trainee Dr. Delanyo Amuzo, who drove me every day to and from the hotel to the Korle Bu teaching hospital and who in addition to completing a radiology residency is doing a Master's Degree in Artificial Intelligence, we shared many wonderful conversations regarding radiology training, AI, sports (his favorite soccer team is Arsenal!). It was the rainy season in Ghana, and the night before a large rainstorm had blown a tree into the road, a perfect analogy for a clot, blocking blood flow, so of course I had to take a picture for the lecture on stroke imaging to be given the following Monday morning June 16, 2025! After a brief detour we arrived at the Central Hotel, where I stayed for my visit!



Arriving at Accra airport greeted Chair Dr. Hafi Gbadamosi



Tree knocked over! Perfect analogy for stroke lecture!



Arriving safely at hotel!

The next morning on June 16, 2025, Monday at 7:00 AM, Delanyo picked me up and brought me to the Korle Bu teaching hospital a national referral center since 1923, a remarkable teaching institution that has grown from 200 to 2000 beds! Driving in Accra is not for the faint of heart, Dr. Delanyo Amuzo, did a fantastic job and we had wonderful conversations about Ghana's history, AI and sports, his favorite soccer team is Arsenal! I was amazed how everyone balanced goods on their head, including water for selling at the roadside or marketplace!



Streets of Accra with the amazing balancing of objects for sale on everyone's head!

That Monday morning, arriving at 7:30 AM, I came to the Korle Bu Radiology Department and met Professor Klenam Dzefi-Tettey, MB CHB, FWACS, FGCPs, former Chairman of the Department and now a Consultant Radiologist & Associate Professor, University of Health and Allied Sciences Faculty Chair; Radiology -Ghana College of Physicians & Surgeons and Vice President, Association of Radiologists in West Africa (ARAWA) and the current President, Health For The World (H4TW); Ghana Chapter. Professor Klenam Dzefi-Tettey had visited the

USA as a neuroradiology observer at the University of Pennsylvania, and remarkably is the first female Neuroradiologist in Ghana and first female Radiology Chair! She like Dr. Gbadamosi was also terrific and pleasure to get to know!



First day of lectures, starting at 8:00 AM, prior to the lecture, I was introduced by the two moderators for that day, including the Chair of the Department Dr. Gbadamosi and the trainee Dr. Ebo Jumia Tawiah. The first lecture I gave was on the basics of CT, MRI and stroke imaging. On that first day for the first hour there was full complement of the radiology residents and over 130 additional people listening to the lectures on Zoom, including faculty and trainees from the Military Hospitals and across Ghana! After the first hour lecture was complete, we took a brief 10-minute break and the residents split into half, half of which stayed for additional lectures and the others covering the clinical service while also listening in on Zoom. The following lectures that morning including additional lectures on advanced stroke paradigms, advanced MRI Imaging including spectroscopy, MR tractography, and imaging of the lower cranial nerves, with lectures going to 1 PM. From 1 to 2 PM, I had lunch with Dr. Delanyo Amuzo, and each day an additional resident would join us as we went to hospital cafeteria to dine together!

I would like to highlight the care and devotion Professor Klenam Dzefi-Tettey, who has put her heart and soul in creating the Korle Bu Radiology Department, it is evident in everything she does, including the garden signifying the entrance to the Radiology Department she planted 7 years ago! Accra is located on Ghana coastal plains in a region called the Dahomey Gap, an area of drier climate along the Gulf of Guinea coast. The Dahomey gap experiences reduced rainfall because the coastline runs nearly parallel to prevailing moist monsoonal winds, although the winds normally bring rain, in the Dahomey gap, they do not effectively deposit their moisture on the land in this region. In the pictures below, you can see the Radiology Garden created by Professor Klenem, and how 7 years later, how it has grown and now finally looks today!



After lunch, we returned to the radiology resident conference room and did a Board theme-based Case Review for 2 hours from 2 to 4 PM. The residents were terrific in taking cases and giving differentials!



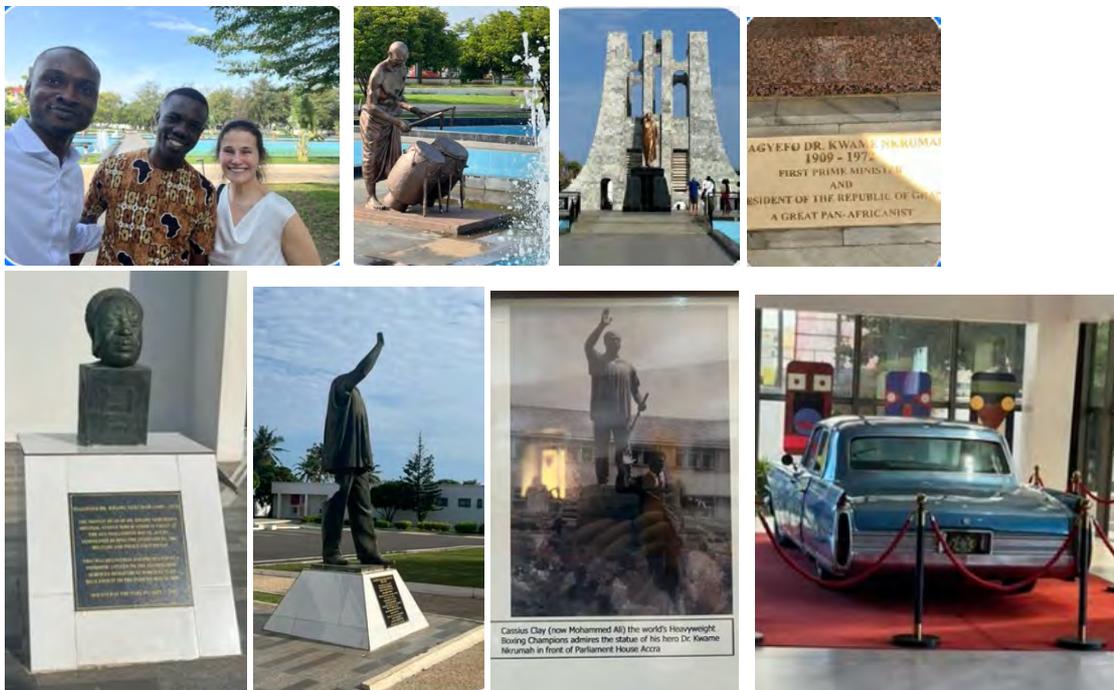
Day 1 after lecturing on stroke, advanced stroke imaging, MRI techniques including spectroscopy, MR neurography, imaging of the lower cranial nerves and unknown case reviews!

On the second day, Tuesday June 17, 2025, my lectures again started at 8:00 AM, after introductions by moderators Professor Klenam-Dzefi Tettey, and Dr. Sedinam Adamaley. The first lecture from 8 to 9 am, again attended by all radiology residents and over 130 people on Zoom, was on "Idiopathic Intracranial Hypertension (IIH) and the Skull Base", for one hour, this was followed by a break and then an hour lecture on "Evaluating the Sellar and Hypothalamic Region", followed by an hour on "Imaging of Perineural Tumor Spread in the Head and Neck", and then "Utilization of AI in Skull Base Imaging. Lunch was again driven to with Dr. Amuzo and a new resident, at the hospital cafeteria, followed by a 2-hour case review. Remarkably that day the residents had a case on MRI they showed me that demonstrated enlarged optic nerve sheaths with flattening of the posterior globes and findings concerning for IIH!



Lecturing Day 2, Tuesday June 17, 2025, on Idiopathic Intracranial Hypertension and Skull Base, Evaluating the Sellar and Hypothalamic Region, Imaging of Perineural Tumoral Spread, Utilization of AI in Skull Base Imaging, and 2-hour case review!

After the board reviews, Dr. Delanyo Amuzo and I visited the Kwame Nkrumah Memorial Park and Mausoleum, the final resting place of Ghana's first President and Africanist. The park and museum were built over British polo grounds, a symbolic repurposing of land, for Ghanaese people to visit a space they were once banned from going into. The park's museum rare artefacts relate to Ghana's independence, we had a private tour detailing Ghana's road to independence, the first African nation to do so, leading the way for additional countries to follow. The mausoleum designed by Don Arthur houses remains of the first President of Ghana Dr. Kwame Nkrumah, who like Professor Klenam Dzefi-Tettey, came to the United States to for a master's and PhD from the University of Pennsylvania. Both Dr. Kwame Nkrumah and his wife Fathia Nkrumah are buried side by side there. The building is meant to represent an upside-down sword, that in the Akan culture is a symbol of peace, others view it as an uprooted tree, signifying the unfinished works of Nkrumah. The mausoleum is clad in Italian marble, the black star at its apex symbolizes unity and the surrounding water, is a symbol of life. The museum includes books he wrote, photograph archives of Nkrumah with several renowned leaders of his time including, Pope Pius XII, Queen Elizabeth II and President John Kennedy, and even Mohommed Ali. The entrance has two springs of water on the side of the walkway, seven statues of squatting statuette flute blowers, blowing water out of the flutes. In Ghanaian culture, flutes are blown to welcome important dignitaries and on special occasions.



Touring Kwame Nkrumah Memorial Park and Mausoleum, final resting place Ghana's first President, who lead Ghana as the first liberated state in Africa, the photo is of Mohmmad Ali who visited the museum, the car, a blue Cadillac was a gift from President John F. Kennedy!

On Wednesday, June 18th, I was introduced by Dr. Wiafe, Dr. David Waja, lectures starting at 8:00, with over 130 people on zoom in Ghana with one-hour lectures on Inflammatory Lesions of the Skull Base, Non-traumatic head and neck emergencies, Imaging of Salivary Pathology, and Head and Neck COVID, HPV, EBV viral manifestations, then lunch break. Afternoon head and neck unknowns in a Jeopardy format, with resident teams Team Korle and Team Bu. The

Residents on Wednesday thoroughly enjoyed the friendly competition as did those on Zoom!



Wednesday June 18, 2025, after a first great Jeopardy unknown case review!

On Thursday June 19th, morning lectures at 8:00 AM with over 130 on zoom, with one-hour lectures on Temporal Bone Anatomy, Temporal Lobe anatomy and epilepsy imaging, Sinonasal Imaging and Normal Variants, followed by imaging of the Sinonasal cavity tumors and tumor like conditions. During the lunch break, after previously lecturing on HPV viral diseases in the head and neck the TV was on in the cafeteria highlighting the Ghana Government campaign in to vaccinate for HPV! After lunch a new Jeopardy 2-hour board case review!





Thursday June 19, 2025, after multiple lectures on Temporal Bone Anatomy, Temporal Lobe anatomy and seizures, sinonasal anatomy, sinonasal tumors and tumors like conditions and our second great Jeopardy unknown case review!

On Friday, June 20th, the first lecture at 8:00 AM was again broadcasted on zoom to over 130 people all over Ghana, one-hour lectures were given on Imaging of the Orbits and Diplopia, Neuroimaging of Skull Base Anatomy and Development, Imaging of Head and Neck Cancer bone and cartilage invasion, and Spine Arthritis: Mimics or Infection? There was the break for lunch and the Final 3 unknown Jeopardy Case review from 2-4 pm!



That Friday afternoon after the lectures were completed, the Department was unbelievably kind in thanking me for the lectures and presented with beautiful gifts including Kente the cloth used in Ghana, chocolate, lovely books on Ghana inscribed by the residents with a huge thank-you for all the teaching and case presentations! Dr. Delanyo Amuzo, also got me a wonderful parting gift of "Ghana" Trivia cards! I was truly touched and overwhelmed by all the wonderful hospitality! That evening the Department took me to Zen Gardens, for a farewell dinner! As the following Saturday AM, I took a direct flight back from Accra, Ghana to New York, JFK airport!





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Had an AMAZING time as the visiting ASNR Anne Osborn Neuroradiology lecturer in Accra, Ghana with Prof . Klenam-Dzefi Tetty, Dr. Gbadamosi and the wonderful trainees and faculty at Korle Bu Teaching Hospital! Honored to be here!!!!

