Global & Community Health: The *djina* disease

On epilepsy in the Republic of Guinea

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When we land, Guinea is bright and damp, the air settling like a heavy coat against our arms as we walk off the plane. The sun is shining through wispy clouds, and the sunset seems to last forever, pink and lavender behind the domes and minarets of the mosque. The hospital is on a spit of land that juts into the Gulf of Guinea. Two men paddle away from the shore in a little boat that crests and falls with the wind like a rocking horse. Further out are cargo ships, so gray and still that at first they seem like boulders.

It’s the rainy season, and by the next day, Guinea is watery, sheets of rain falling from the sky and slicking the dark pavement until the ground looks bottomless. Ditches on the side of the road fill with rain, and we walk to and from the hospital balanced on a narrow curb, tightrope-walking above the ocean forming beneath us. We learn that there’s a rhythm to the rain—the mornings are muggy and damp, the afternoons torrential—but still, these ditches never dry.

We are here with Guinean physicians and residents to meet with people with epilepsy as part of a study exploring ways to better diagnose and treat this disease. As part of the study, I ask each patient and family what they believe causes epilepsy.

From our patients, I learn about the belief that epilepsy can be caused by the devil or by *djina* or jinn, invisible spirits who inhabit the sea and the forest, who might possess a child out of jealousy or rage. I learn about the belief that epilepsy is a curse, *sorcellerie* cast by an unkind neighbor rumored to be a witch. “The epilepsy is different from other diseases. It happens so suddenly. That is why they think it is a disease of the spirit,” one man explains. In Guinean French, epilepsy is “*la maladie du diable*”—“the disease of the devil.” In Fula, one of Guinea’s national languages, epilepsy is “*djina-wake*”—the *djina* disease.

I learn also about the belief that epilepsy can be contagious, that the saliva and blood secreted by a person having a seizure have the potential to infect anyone who comes in contact with it. One woman tells me that she lost her job as a tailor—one customers found out about her epilepsy, they became too afraid of contracting the disease to buy her clothes.

Patients explain that friends and neighbors will no longer share meals with them out of fear of contracting epilepsy from contaminated food or water, and children are asked to leave school by teachers who fear that epilepsy might be passed to other students. People with epilepsy fall into cooking fires during seizures while neighbors stand by. In the rainy season, one mother tells me, she fears that her daughter will fall into a roadside ditch and drown without anyone to pull her out. Another reports that her son left school 12 years ago.

*School and home are very far from one another, and he sometimes has a seizure in the road. I am afraid he will be killed by a car, because no one will touch him when he has a seizure. At school, he hit his head on the wall in a seizure, and the teachers were too afraid of being contaminated to help him. Now I am home to care for him when he has a seizure, because no one else will.*

Women report that their husbands left them when they began having seizures. “No one wants a wife with a *djina* disease,” one explains.
In clinic, one patient has a temporal lobe seizure. Her head and eyes turn, her lips pucker, and she picks at my white coat with strong fingers. “They say she does this because she is looking for the devil,” her mother says.

The hospital hallways have no walls, and rain pounds the roof and needles in over the balcony, wetting the stairs. The rain drowns out quiet patients and the whining air conditioner. In the afternoon, women pass through the hallway with baskets of plantains balanced on their heads. By the evening, the floor is littered with peanut shells and a bony black-and-white cat slinks into an examination room, begging for scraps.

I learn about the belief that epilepsy can be transmitted by cats. A child is bitten by a cat in a nightmare, and a witch curses her with epilepsy. I learn about the belief that epilepsy comes at night, in black shadows and dark birds and bad dreams.

There are just 4 neurologists in Guinea, all in the capital city of Conakry. The majority of people with epilepsy in the country will never see a neurologist. Instead, many are treated by traditional healers in their communities, often marabouts, or Islamic faith healers who treat a range of problems, from epilepsy to infertility, each thought to be caused by possession or witchcraft. We visit several of these healers in Conakry. One tells us that there are spaces in the body where the devil can hide, each manifesting with different symptoms. The devil hides in the feet of a person who is too tired to work, or the chest of someone who cannot breathe, or in the nerves of a person with seizures. “When the devil takes control of a body, he talks from that person’s mouth. I can ask the devil, ‘Why did you come here? Why did you not leave? Where are you hiding?’” he explains. “I will tell him, ‘If you want to go out, you must tell me 3 times goodbye. As-Salaam-Alaikum, Wa-Alaikum-Salaam.’”

“Seizures are not a problem of hospitals, but a djina problem, so only a marabout can cure them,” one man explains.

Traditional healers treat epilepsy with herbs made into oils and liquids, and with scripture from the Quran. Patients wear gris-gris or sebe, transcribed Quranic verses tightly wrapped and sewn into pieces of leather, then tied with thread around the waist or arm. Healers write Quranic scripture on chalkboards, then rinse the boards into bottles of water to be drunk or bathed in. They read scriptures into the ear of a seizing person and record scriptures onto cellphones, to be played at home.

Sometimes, traditional healers send their patients to the hospital for seizures that continue in spite of these treatments.

Preliminary data from our trip suggest that 79% of our patients have seen a traditional healer, and 71% saw a traditional healer before ever seeing a physician. Traditional healers are present in every community in Guinea. By contrast, just 4 antiepileptic drugs are available in pharmacies in Guinea—valproic acid, phenobarbital, carbamazepine, and diazepam—and pharmacies are often out of stock of one or more of these medications. A prior study from our group found that 25% of epilepsy patients seen at a public hospital in Conakry had untreated epilepsy, and 72% met criteria for poorly controlled epilepsy. These last are the numbers our group hopes to change.

At our last dinner in Guinea, one of our Guinean colleagues is surprised to hear that a traditional healer in Conakry has been referring patients to his clinic. He wonders about a partnership between Guinean physicians and traditional healers, whether this might be a way to care for more patients with epilepsy, particularly outside of the city.

The strategy is far from new. In 2008, 3 years after the WHO believed Guinea to be polio-free, poliomyelitis began spreading through West Africa again. The surveillance strategy that ultimately worked was one that engaged with traditional healers, religious leaders, and teachers to identify paralyzed children presenting for care and promote vaccination for healthy children.

At the end of 2013, the first case of Ebola virus in West Africa was diagnosed in a 2-year-old boy in a remote village in Guinea. The WHO found that more than half of cases of Ebola in Guinea could be traced to burial practices, including relatives washing the deceased and cleaning their hands in a common bowl of water as part of a ritual to cement unity between the living and ancestral spirits. An initial medical intervention involved attempting to remove bodies from communities before these funeral rites were carried out, ravaging an already fragile trust in medical care. In the end, the interventions that were most effective involved engaging with traditional healers and other community leaders to rebuild trust and devise culturally acceptable ways of curbing the spread of the virus. Public health officials speculated that the same strategy should be applied to other infectious diseases endemic to West Africa, including malaria, cholera, meningitis, and measles.

At our dinner, we talk about applying the same strategy to epilepsy—engaging with traditional healers to find ways to mitigate the stigma associated with the djina disease and to improve access to testing and medication.

In the clinic, a father tells me that his son went to a traditional healer in the community for 3 years, until the healer told him that his son’s disease was a disease of the body rather than the spirit. His son has never tried antiepileptic medication, and he has a seizure in the hallway while he waits to be seen. “Marabouts were here before the
hospital,” the father explains. “They were always here, and so, the people will always go to them first.”

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Disclosure
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