



Introduction:

Welcome to CUGH's bi-weekly clinical case-series, "Reasoning without Resources," by Prof. Gerald Paccione of the Albert Einstein College of Medicine. These teaching cases are based on Prof. Paccione's decades of teaching experience on the medical wards of Kisoro District Hospital in Uganda. They are designed for those practicing in low resource settings, Medicine and Family Medicine residents, and senior medical students interested in clinical global health. Each case is presented in two parts. First comes a case vignette (presenting symptoms, history, basic lab and physical exam findings) along with 6-10 discussion questions that direct clinical reasoning and/or highlight diagnostic issues. Two weeks later CUGH will post detailed instructors notes for the case along with a new case vignette. For a more detailed overview to this case-series and the teaching philosophy behind it, see [Introduction to "Reasoning without Resources"](#). Comments or question may be sent to Prof. Paccione at: gpaccion@montefiore.org

Note: If you would like to be notified when a new case is posted (along with instructor notes for the previous one), send your e-mail to Katherine Unger at kunger@CUGH.org.

About the Author:

Dr. Gerald Paccione is a Professor of Clinical Medicine at the Albert Einstein College of Medicine in the Bronx, New York. His career has centered on medical education for the past 35 years – as a residency Program Director in Primary Care and Social Internal Medicine at Montefiore Hospital, and director of the Global Health Education Alliance at the school. He has served on the Boards of Directors of Doctors for Global Health, Doctors of the World USA, and the Global Health Education Consortium. Dr. Paccione spends about 3 months a year in Uganda working on the Medicine wards of Kisoro District Hospital where he draws examples for the case studies.

Gerald Paccione, MD
Professor of Clinical Medicine
Albert Einstein College of Medicine
110 East 210 St., Bronx, NY 10467
Tel: 718-920-6738
Email: gpaccion@montefiore.org

CASE 44 – Bizarre and Treatable x 5

Read the following case vignettes and identify the diagnostic theme common to them.

- a. A 15 year old boy returns from 3 months in Rwanda, confused and combative. He went to Rwanda from Kisoro when his family heard about the death of his grandmother to claim their inherited land. When he arrived, he discovered squatters living on the land and (according to family members now with him at the hospital) fought with them, ultimately threatening them with his machete. For this threat, in Rwanda (!), he was arrested and jailed for 2 months. He was released about 2 wks ago, made his way to Kisoro and has since been “crazy”: confused and violent, stopping cars in the middle of the street, not making any sense, destroying the furniture in his house. He was finally brought to the hospital. He never acted like this before and had done well in school.

On exam, he was hyper-vigilant, combative, generally uncooperative, and afebrile with normal vital signs. His lymph nodes, lungs, heart, abdomen were normal with the exception of splenomegaly, 3 cm below the costal margin. He walked with a limp, but hip, knee and feet appeared normal with only tenderness elicited on deep palpation under right plantar arch.

- b. A 46 y/o male had fever, vomiting and headache about 2 weeks ago for which he took “malaria pills” for 3 days, felt somewhat better and returned to work for 4 days. About 5 days prior to admission, he again had a headache with chills for a day and went to bed. According to his family, he slept “all the time” for 2 days without eating, and got out of bed yesterday for the first time. He was confused, didn’t recognize family members consistently and was brought to the hospital.

On direct questioning, his family noted he had vomited a few times, and had a mild non-productive cough. He had never been confused before.

On exam he was afebrile, seemed relaxed, and identified his wife and family members easily. Physical exam uncovered no abnormalities; his neuro exam was non-focal; on gross mental status evaluation he couldn’t remember the month although he remembered the year.

Three hours later however, his wife calls you over. He appears easily distracted and thinks he's at home in 1980. He recognizes his wife as someone he knows, but thinks she is his cousin from Kampala. He seems quite anxious, thinking the nurse is out to hurt him.

- c. A 20 y/o male went to Kampala about 6 months ago. According to friends there he was well until 7-10 days ago when he began complaining of fever and abdominal pain. He was treated for malaria with fansidar for 2 days, seemed better but then began acting strange. A diagnosis of meningitis was made (no LP done) and treatment was switched to antibiotics. He continued to act "strange" and on day 3 of therapy, since his friends couldn't miss any more days of "digging" (farming) to attend him in the hospital, they put him on the bus for Kisoro and family. When he arrived, he was quiet and withdrawn, not eating and "not himself" for 3 days at home. He had never acted strange like this before and family brought him to Kisoro District Hospital.

On physical exam he was afebrile and vital signs were normal. He lay motionless and then suddenly jumped away when approached, screaming and terrified when touched (by "Mzungo" (white) physicians). For 2 days he remained withdrawn, and intermittently and unpredictably aggressive. He had no apparent photophobia and was moving his neck freely. A rapid HIV test was negative. In the middle of the 3rd hospital night, he seized.

- d. 49 y/o male brought to the hospital by his family because he has been acting strangely for the past 2 months. Previously in fine health and "good" with his family, he began acting inappropriately with occasional violent outbursts. Last week at home he was found burning his clothes, and over the past few days this poor subsistence farmer from a village without electricity or running water was obsessed with finding (and demanding!) his computer. He has not been eating normally and has lost some weight.

Physical exam is unremarkable without fever, lymphadenopathy, hepato-splenomegaly, neurologic focality or cardio-pulmonary findings.

- e. 29 y/o mother of 4 is admitted with 3 months of cough, sputum, fevers, and marked weight loss of more than 12-15 kilograms. Exam is notable for severe cachexia, a weight of 38 kg, crackles in right upper lung field posteriorly. AFB is (+), HIV negative. She is started on RIPE (rifampin, INH, PZA, and ethambutol). By the third day, she feels stronger and begins

