Emergency Medicine as a specialty has revolutionized the quality of unscheduled acute care provided to patients around the world. In Ghana, Emergency Medicine became a dedicated specialty ten years ago. There, emergency patients often present to the hospital in extremis, as they experience threats to their vital organs, requiring immediate resuscitation. Over the past eight years, point-of-care ultrasound has emerged as a real-time diagnostic tool to evaluate such critical patients. It allows for life-saving interventions and rapid diagnostic decisions. The availability of affordable handheld ultrasound machines has created an opportunity to implement this technology into the emergency medical setting in low- and middle-income countries. My work in Ghana has focused on the feasibility and outcomes of utilizing portable ultrasound to care for the most critically ill emergency patients. In this seminar, I will present the hypotheses that have stimulated this research, its implementation and outcomes, as well as the longer-term effects associated with it.