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Perceptions of Global Health Imaging Among American Private **Practice Radiologists**

Tyler Stutzman MPH USF MCOM- LVHN Campus

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Perceptions of Global Health Imaging Among American Private Practice Radiologists

Tyler Stutzman, MPH, Mentor: Jeffrey Blinder, MD

Lehigh Valley Health Network, Allentown, PA

Introduction

Medical imaging studies are an integral part of modern healthcare. Healthcare in developing countries is no exception as imaging is a key element in the diagnosis of many diseases or conditions targeted in the 2016 United Nations Sustainable Development Goals. However, the World Health Organization (WHO) reports 2/3 of the world's population lacks basic access to imaging resources. Despite its importance, radiology has lagged behind other medical specialties in participation in global health programs. Barriers to imaging services in global health programs include lack of funding and equipment, poor sustainability, time constraints, unreliable energy sources, poor roads and public transportation, and lack of trained radiology personnel.

Problem Statement

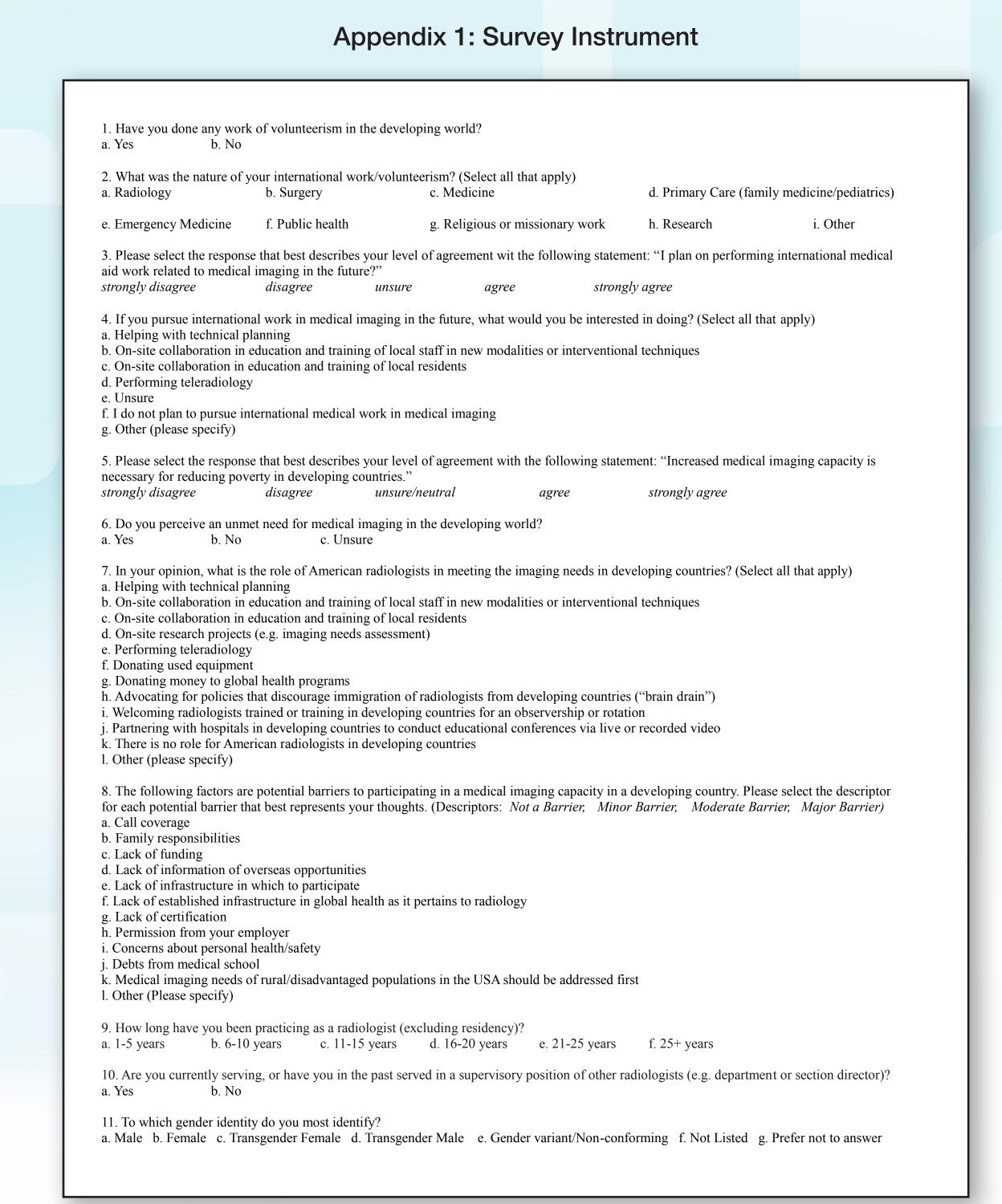
The purpose of this project was to measure the perceptions of American private practice radiologists regarding the imaging needs of the developing world, their role in meeting those needs, and the barriers to private practice radiologists participating in global health imaging programs.

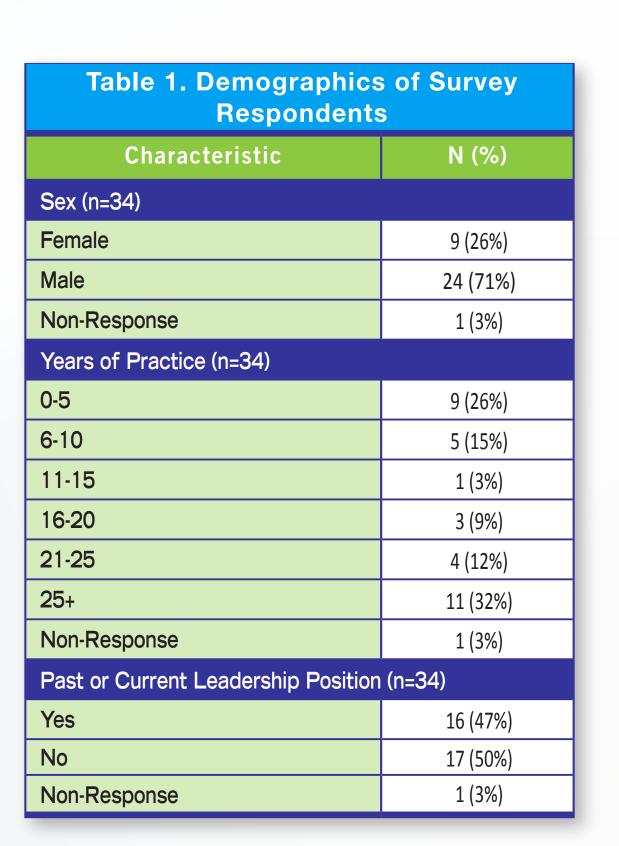
Methodology

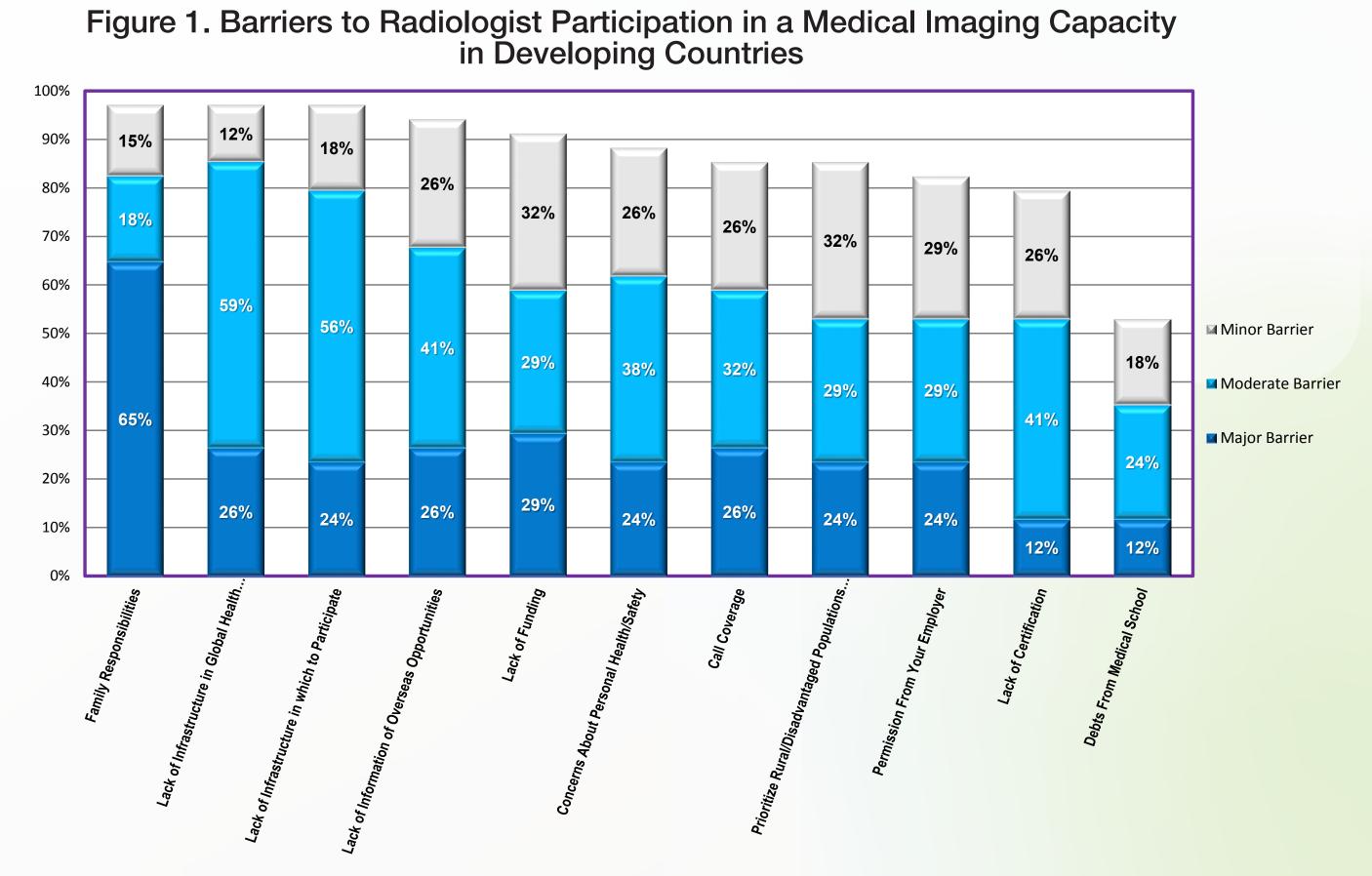
An electronic survey (Appendix 1) was created using Qualtrics and a link was distributed to a private practice radiology group via email. Permission was obtained to adapt a previously published survey of Canadian radiology residents regarding global health imaging (Zener et al. CARJ 2017). The adapted survey was reviewed by three fourth year medical students, one practicing radiologist, and one non-medical professional for content, clarity, and flow. The survey was voluntary and anonymous. Permission to distribute the survey was obtained from the radiology practice director. The study was considered Quality Improvement and no IRB approval was obtained.

Results

Survey demographics are given in Table 1. Thirty four of 76 radiologists responded to the survey (45% response rate). Four radiologists (12%) had prior international work experience. One (3%) had worked in a medical imaging capacity in a developing country. Sixteen radiologists (47%) were interested in pursuing international work related to medical imaging in the future and nineteen (56%) expressed interest in international teleradiology. Twenty eight radiologists (82%) perceived an unmet need for medical imaging in the developing world. Donating used equipment (85%) and welcoming foreign residents/radiologists for observerships/rotations (85%) were the most common responses to the role of American radiologists in meeting global imaging needs. Figure 1 summarizes the thoughts of American private practice radiologists regarding potential barriers to participating in a medical imaging capacity in a developing country.







Conclusions and Future Implications

The majority of radiologists perceived an unmet imaging need in developing countries and believed that American radiologists have a role to play in meeting those needs. About half of the radiologists expressed interest in international medical imaging work in the future, particularly teleradiology. However, family responsibilities, underdeveloped infrastructure, and lack of information about imaging opportunities in global health remain significant barriers to American private practice radiologist participation in global health programs.

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