The novel coronavirus pandemic is an ongoing public health disaster, straining the capacities of hospitals, health systems, and the health care workforce. COVID-19 has raised concerns regarding the capacity and adequacy of the nation’s primary care infrastructure. With such pressures placed on organizations and their staff, retraining and redeployment of current medical professionals has been discussed as a viable strategy during such emergencies.1 Redeployment of workforce helps ensure patient needs are met, and can make best use of an available resource to respond to the pandemic. Family physicians have been trained in comprehensive, coordinated care, making them prime candidates for such redeployment. Success in COVID-19 response and recovery may depend on how well our health workforce is deployed and utilized.2

Therefore, the aim of this study is to describe sites of practice for family physicians to identify the potential for redeployment to a variety of settings in times of local, state, or national emergency.

**Methods**

We used data from the 2017 Medicare Fee for Service Physician and Other Supplier Public Use file, which is organized at the level of provider and Healthcare Common Procedure Coding System (HCPCS) code. Focusing on family physicians treating the Medicare population, we used HCPCS codes associated with E/M services to identify six sites of practice common in family medicine (home visits, assisted living facilities, nursing homes, emergency rooms, hospitals, and office/clinic). We tallied services by site, and then summarized to the physician level. Summing the unique sites served as the basis for a physician’s scope of practice, and thus, their comprehensiveness.3-5 This was repeated for the subset of rural physicians.

**Results**

The study found most family physicians practicing at a single site, namely, the ambulatory clinic. However, family physicians in rural areas, where need is greater, exhibit broader scope. This suggests that a significant number of family physicians have capacity for COVID-19 deployment into other settings, such as emergency rooms or hospitals.

**Conclusions**

Family physicians are a potential resource for emergency redeployment, however the current breadth of scope for most family physicians is not aligned with current residency training requirements and raises questions about the future of family medicine scope of practice.

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of family physicians who practiced in rural counties as defined by the 2013 United States Department of Agriculture Rural-Urban Continuity Code designations. The American Academy of Family Physicians Institutional Review Board deemed this study exempt from review.

Results
As shown in Table 1, 79% of family physicians in this Medicare sample practice at just one site type, of which 88% only practice in the office or ambulatory clinic (69% overall). Twenty-one percent of the entire sample and 35% of those in rural practice (Table 3) work at two or more sites, including hospitals, emergency departments, and nursing homes. Tables 2 and 4 describe the proportion of E/M services delivered in each of the delivery sites by all family physicians and rural family physicians, respectively. For physicians working in more than one site, the ambulatory clinic is still the most common based on the proportion of E/M services. Overall, 16,500 family physicians already work in multiple clinic sites, and could potentially be deployed during local, state, or national emergencies. Because family physicians receive training in a variety of practice sites, the current data suggest a large share of family physicians is not practicing at the top of their training.

Discussion
Similar to prior studies, we have analyzed activities and procedures,
determining the site of service to develop a measure of scope of practice. Most family physicians practice in a single location, the ambulatory clinic or office, but a significant number practice in multiple settings, suggesting broader comprehensiveness and providing a potential resource for redeployment to the variety of settings necessary for COVID-19 response, other emergency, or natural disaster.

Overall, 30% of family physicians and half of rural family physicians are providing some care outside the clinic or ambulatory setting, with many working in multiple settings. The benefits of multisite physician practice have been discussed as means to address physician shortages and improve access to care. The type of comprehensive care that family physicians can provide may serve as a basis for willing generalists to redeploy to other settings and address shortages during a widespread emergency. Current family medicine training is producing a workforce that can provide care in a variety of settings. Studies have found that redesign in family medicine residency curricula and length can encourage broader scope of practice and comprehensiveness of graduates. State and federal policies, curricular interventions in graduate education and residency, as well as ongoing education and training could facilitate expansion of the multisite family physician workforce. Family medicine board certification requires ongoing knowledge assessment of urgent, emergent, and hospital care. For family physicians who have not practiced in the hospital or emergency room, a brief retraining could quickly equip nearly all family physicians with the capacity to work in multiple settings. The current and potential broad scope and site of practice allows family physicians to meet the varied needs of the population, especially when facilities, specialties, or workforce are limited.

It is critical to continue graduate medical education in multiple sites of care for family physicians to be properly equipped to provide care where patients most need them. Taken together, these may further expand the pool of physicians capable of rapid redeployment or even rural practice.

**Conclusion**

COVID-19 reminds us of the versatility of family physicians, who are able to move between different sites of care to meet the needs of the community. We present evidence that suggests family physicians are capable of a wide scope of practice, however there may be a disconnect between that potential scope, and their current utilization. Regular certification and innovations in family medicine graduate medical education may help family physicians meet the varied needs of patients and communities.

**References**


