Evidence is mixed on the effect of value-based payment models on access, quality, and care.\textsuperscript{1–3} One reason may be that while a great deal of attention has been paid to redesigning care delivery and payment models, less focus has centered on redesigning the workforce to deliver team-based care in new models of care.\textsuperscript{4} Bodenheimer\textsuperscript{5} suggests that the survival of primary care hinges on creating teams that share the care with well-trained and empowered health professionals who can take on functions that do not require a physician. Such structural changes to primary care require retraining physicians and other providers to more effectively function in teams, remapping workflows, and redesigning care to allow for more collaboration between physicians and other health care professionals.\textsuperscript{6–9} Despite the growing body of research on the evolving roles of medical assistants,\textsuperscript{10,11} nurses (RNs),\textsuperscript{12,13} social workers,\textsuperscript{14} pharmacists,\textsuperscript{15} nurse practitioners (NPs), and physician assistants (PAs),\textsuperscript{16} we lack a good understanding of different team configurations in primary care practices.

In this issue, Jabbarpour et al\textsuperscript{17} use data from a question on the American Board of Family Medicine (ABFM) examination application asking active family physicians about the types of health professionals with whom they practiced between 2014 to 2018. With a 100% response rate of the approximately 10% of ABFM certified physicians who take the examination each year, the generalizability of these data to the underlying population of board-certified family physicians’ (FPs’) practices in the United States is strong.

Slightly more than half (55.9%) of family physicians reported practicing with NPs in 2018, but there was no discernible trend over the period. Given NPs’ rapid growth in primary care practices, the lack of growth in FPs working with NPs is surprising.\textsuperscript{18} Despite changing the question in 2017 to include the word, “collaboratively,” (“Which of the following types of health professionals work collaboratively with you at your principal site?”), the authors note that is unclear whether respondents who indicated they were working with NPs were practicing alongside NPs or providing team-based care to a common panel of patients.

The percentage of family physicians practicing with RNs increased from 47% in 2014 to nearly 54% in 2018, suggesting that practices are increasingly working with RNs where they may be triaging patients and acting as chronic care managers, care coordinators, and health coaches for patients with uncomplicated diabetes, hypertension, hyperlipidemia.\textsuperscript{12} Slightly more than 40% of FPs reported consistently working with PAs between 2014 and 2018. The percentage working with clinical pharmacists, behavior specialists and social workers increased 5 percentage points, from about 21% to 26%. The most striking finding in the analysis is that the percentage of family physicians who reported working with licensed practical nurses (LPNs) increased from 34.5% in 2014 to 49.3% in 2018.

Expanding Roles for Social Workers in Primary Care

Social workers play important roles in providing integrated behavioral health care in primary care settings, assessing and screening patients, providing behavioral health interventions, and connecting clients with resources to address food insecurity, transportation, and other factors that affect behavioral
and mental health.\textsuperscript{14,19} Given the emergence of integrated behavioral health and primary care models, it is surprising that not more FPs reported working with social workers and other behavioral health specialists. However, the data are consistent with a study by Lombardi et al\textsuperscript{20} that used national provider identifier data to identify colocation patterns of social workers and primary care physicians. That study found that 25.8\% of social workers were colocated with a family physician and that colocation was more common in larger practices (employing over 25 PCPs) and less common in rural settings. Given that embedding social workers in primary care settings improves health outcomes,\textsuperscript{14} the percentage of FPs who report working with social workers is likely to increase as public and private payers shift toward value-based payment models that emphasize addressing the “upstream” social determinants of health.

\textbf{LPNs & the Shift Toward Ambulatory Care and Value-Based Payment Models}

In 2019, 400,000 new jobs were created, one quarter (102,000) of these jobs were in hospitals and about two thirds (269,000) were in ambulatory settings such as outpatient care settings, home health and physician offices.\textsuperscript{21} Care is shifting from more expensive acute settings to less expensive ambulatory care settings and as care shifts, the number of FPs who report working with LPNs is likely to continue to increase.

Since the 1980s, LPNs have been shifting from hospitals into long-term care and community-based settings.\textsuperscript{22} LPNs are vital to skilled nursing facilities and other extended-care facilities.\textsuperscript{23} Coffman et al\textsuperscript{24} found that between 2008 and 2013, home health agencies had the largest increase in LPN employment in the United States. More recent data from North Carolina suggest that while employment in home health continued to grow, between 2015 and 2018, jobs in nursing homes, extended care facilities, and assisted living facilities declined by 6\% (Figure 1). Hospital employment declined by an even greater amount—21\%—and LPN employment in ambulatory care grew by 47\%. While representative of just 1 state, these data represent a full census of actively practicing LPNs in each year and are consistent with the findings of Jabbarpour et al\textsuperscript{17} of more FPs working with LPNs in outpatient care.

As health systems, insurers, and practices adopt risk- and value-based payment models that seek to reduce hospital admissions and readmissions, more FPs may also find themselves working with physical therapists and occupational therapists. Stroke patients who receive outpatient therapy in the first 30 days after discharge home are less likely to be readmitted to the hospital.\textsuperscript{25}

\textbf{Factors Affecting Team Composition}

In a study of evolving health workforce roles in 17 accountable care organizations, Sandberg et al\textsuperscript{26} found that there is no “single model” of care, distribution of tasks, or provider-to-patient ratios that worked equally well for all sites. Instead, organizations tailor the composition of their teams according to the complexity and health care needs of their patient population and around provider availability and preferences. Team composition is also dependent on the size of practice with larger practices able to use a more diverse team.\textsuperscript{27} Health system affiliation also matters as systems have more resources to hire nonbilling team members. However, building teams in academic teaching practices may be more challenging than in nonteaching practices\textsuperscript{5} because FPs in these practices tend to spend less time in clinic due to research and teaching obligations so team composition is not as stable or continuous.

A lack of understanding of other health professionals’ training, qualifications, and competence can act as a barrier to optimal deployment of health professionals on teams. A study of community-based family medicine practices in 2001\textsuperscript{28} found that interprofessional practice with RNs, LPNs, certified medical assistants and other staff was determined by physician expectations rather than the education, training or licensure of team members. This suggests opportunities for more deliberate staffing models that better deploy RNs and other patient care staff in primary care settings. This may be challenging as Leach et al\textsuperscript{29} found that primary care team structures are often not the result of an explicit plan but evolve organically. They are often shaped by provider preferences and factors outside the practices’ control such as lack of reimbursement for staff who do not bill for their services, scope of practice restrictions,\textsuperscript{30} physicians lacking trust in the abilities of other team members,\textsuperscript{7} and the need for a culture change from “I” to “we.”\textsuperscript{31}
Ultimately, the ability to share care across interprofessional teams may be critical for the survival of primary care along with the well-being of the FP workforce. A recent study of primary care physicians found that practices’ ability to “address patients’ social needs mitigates burnout symptoms.” Helfich et al found lower burnout in medical home models that were appropriately staffed, emphasized participatory decision making, and increased the proportion of time team members spend working at the top of their competency level. While these findings suggest that team-based models of care can reduce burnout, workflows must go beyond task delegation. A study of primary care providers and RNs in Veterans Affairs primary care clinics found that increased staffing and enhanced roles for RNs reduced burnout for primary care physicians but also increased burnout for RNs.

Future research on teams in family medicine practices needs to delve beneath the numbers to investigate how evolving payment models, such as capitation and risk-based models of care, affect not only the skill mix but also the content of care provided by different health professionals on primary care teams. Recent changes to reimbursement for telehealth, if made permanent, will have dramatic changes on workflows and roles. The challenge to redesign primary care is not simply one of determining how to reconfigure the existing workforce, we must also develop best practices in training residents on interprofessional teams so that an understanding of the role and value of other team members’ roles imprints early on their practice.

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