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Oral Medical Care Coordination in the United States: Pillar #2 - Workforce Development and Operations

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Background

Oral medical care coordination seeks to improve public health outcomes by integrating oral health and primary care (see research brief 34 in this series for more information). While the evidence base on the benefits of oral medical care coordination is robust, less is known about current levels of adoption of coordinated systems in the United States. The University of Iowa conducted the seminal comprehensive literature review on this topic in 2018,¹ and, in 2021, KDHRC undertook a systematic effort to extend and update that research. We examined peer-reviewed articles, state oral health and chronic disease plans, and grey literature on oral medical care integration (see research brief 35 in this series).

From the systematic review we further drilled down on key program characteristics that undergird success, replicability, or sustainability. These components are named as pillars in a framework of change required before oral medical care coordination can be meaningfully implemented on a broad scale. The pillars are **Awareness**, **Workforce Development and Operations**, **Information Exchange**, and **Payment**. This brief more deeply describes **Pillar #2: Workforce Development and Operations**. Additional briefs describe the other three pillars (see research briefs 36, 38, 39 in this series).

Workforce development and operations (pillar #2) defined

The **Workforce Development and Operations** pillar focuses on preparing and enabling providers to work across disciplines, establishing organizational structures to facilitate collaboration, and empowering staff to use systems that support whole person coordinated care. This pillar emphasizes interprofessional education (IPE), continuous training, and the creation of coordinated care models that

include both oral health* and medical care providers.

Key findings: Provider education

IPE seeks to foster collaborative practice among providers by integrating educational experiences across various disciplines. Research brief 35 in this series spoke about the importance of IPE to increase awareness of oral medical care coordination, but from a foundation of awareness. IPE can also build provider knowledge and skills on topics including:

- Oral anatomy, diseases, and conditions²
- Oral hygiene, cleaning, disease prevention, and guidelines²
- Medical conditions that affect oral health (e.g., hypertension,³ diabetes,⁴ and sleep apnea⁵)
- Screening and management of chronic diseases and conditions (e.g., diabetes or hypertension)^{4,6}
- Interprofessional practices such as reimbursement procedures and roles and responsibilities⁷

Studies evaluating the implementation of IPE programs have documented various approaches to integrating oral health and medical education. Programs have aimed to build skills in oral health and coordinated care through diverse educational formats, including traditional lectures, clinical rotations, case studies, simulation exercises, community service practicums, and online modules. For example, educators widely use the Smiles for Life curriculum⁸ to train non–oral health care providers in oral health care, emphasizing the oral-systemic connection and the importance of care to patient experiences and outcomes.

IPE programs have generally succeeded at increasing awareness among students and faculty, prepared providers to work in interdisciplinary teams and improved the delivery of coordinated care.⁹ Providers trained through these programs also reported greater confidence in performing oral health assessments, applying fluoride varnish, and making appropriate referrals.^{10,11} Additionally, IPE programs that included co-located training experiences demonstrated improved collaboration and communication among providers.⁹ However, some programs experienced barriers such as limited curriculum time, lack of faculty buy-in, and insufficient organizational support, suggesting that there is more work to be done for IPE to reach its full potential preparing an oral medical care coordination focused workforce.^{12,13}

Key findings: Integrating strategies into care

Integrating oral medical care coordination into existing health care practices involves significant workforce and operational adjustments. The process entails preparing and enabling providers to deliver coordinated care by performing oral-systemic screenings, examinations, interventions, and referrals. For the oral health workforce, coordinated care activities include monitoring, detecting, educating, and referring patients for non-communicable and chronic diseases with oral-systemic connections.¹⁴ Health promotion techniques, such as motivational interviewing, goal-setting, and patient counseling, are essential components. Education via professional programs and continuing education prepares the oral health workforce for coordinated care. Expanding the scope of practice through state practice acts and licensing also enables oral health care providers to provide a broader range of services in various settings, although not all states have adopted such policies.¹⁵

^{*} In this brief, the term "oral health care" describes care of the teeth, gums, and soft tissue in the mouth, and "dental care" refers to care of teeth and gums.

ealth services, patient cancer and periodontal rams, continuing e activities for the I health promotion, and nated care occurred in a hools,¹⁹ federally cilities,¹⁴ mental health ogy centers.²⁶

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For the medical workforce, coordinated care activities include preventive oral health services, patient education on oral health promotion, and screenings for conditions such as oral cancer and periodontal disease.^{16,17} Training medical providers occurs through health professional programs, continuing medical education, and dental clinical experiences. Examples of coordinated care activities for the medical workforce include the application of fluoride varnish, counseling for oral health promotion, and assessment of oral health during clinical evaluations.^{10,11}

The literature identified several examples of successful coordinated care. Coordinated care occurred in a variety of settings, including medical and dental clinics,⁴ hospitals,¹⁰ homes,¹⁸ schools,¹⁹ federally qualified health clinics,²⁰ WIC clinics,²¹ Head Start programs,²² long-term care facilities,¹⁴ mental health facilities,²³ migrant community centers,²⁴ academic medical centers,²⁵ and oncology centers.²⁶ Coordinated care activities included patient education;²⁷ dental and medical screenings (e.g., for periodontal disease,²⁸ HIV,²⁹ diabetes,³⁰ smoking,³¹ alcohol consumption,³² hypertension,³ cardiovascular disease,⁶ hepatitis, sleep apnea,⁵ mental health, and oral cancer¹⁶); guidance and counseling on nutrition,³³ human papillomavirus,³⁴ and tobacco cessation;³¹ management of patients with chronic conditions;³⁵ and referral of patients for additional testing and diagnosis.³⁶

Factors that supported success for these coordinated care activities included working relationships between providers and their community; Medicaid eligibility for the provided services;³⁷ cooperation of staff;³⁸ knowledge of recommendations and competencies for care;³⁹ policies and practice acts enabling coordinated care among various providers and in nontraditional settings;⁴⁰ reimbursement for services;⁴¹ having people who act as champions of coordinated care;⁴² standardized care approaches;⁴³ quality metrics;⁴² supportive provider knowledge, attitudes, and self-efficacy;³⁹ and improved technology and informatic capacity to share patient information and coordinate care.³⁹

Barriers to reaching full impact of coordinated care included time constraints; difficulties referring patients;³⁹ poor integration into practice workflows and systems;⁴⁰ siloed provider education systems;⁶ lack of communication among providers;³⁹ poor attitudes, low perceived value and resistance among providers and staff;³⁸ poor attitudes and low health literacy among patients and the public;³⁹ lack of evidence-based guidelines, protocols, and standards of practice;³⁸ and high costs.⁴⁴

From this robust literature on facilitators and barriers for successful oral medical care coordination models, we can build best practices for future programs.

Recommendations

The **Workforce Development and Operations** pillar is central to the successful implementation of oral medical care coordination. Numerous studies detail the need for comprehensive training programs that encompass both oral and medical health components. Effective workforce development requires not only initial education but also ongoing training and support to adapt to evolving coordinated care models. The interaction between this pillar and **Awareness** (see research brief 36 in this series) is evident: well-informed providers are better equipped to execute coordinated care practices, and continuous education reinforces their understanding and commitment to these practices.

The barriers to a coordinated workforce, however, can be substantial. There is a widespread lack of IPE in many provider curricula, resulting in providers who are not adequately prepared to deliver coordinated care.⁴⁵ Time constraints, insufficient training, and lack of organizational support further impede the adoption of oral medical care coordination practices.³⁸ Cultural and professional silos that exist between the oral and medical health fields can lead to resistance to change and thwart collaboration.³⁹

However, the benefits of IPE applications are significant. IPE must become a cornerstone of provider curricula to foster a new generation of providers who are comfortable and competent in delivering coordinated care to improve patient outcomes. To enhance workforce development and operations, we recommend:

- **Incorporating IPE programs** into provider curricula at initial training levels (degree fulfillment) and promoting continuous professional development (licensing maintenance).
- **Promoting interprofessional collaboration** by expanding practice workflows to incorporate oral health assessments into routine medical exams and establishing referral networks for patients in need of care.
- **Expanding scope of practice** by allowing mid-level professionals such as dental hygienists to provide coordinated care. For most states, this will require modifying practice acts and licensing requirements.

Conclusion

The coordination of oral and medical health care services has the potential to significantly reshape the landscape of health care delivery. By breaking down traditional barriers, coordinated care models can provide more comprehensive, patient-centered care.

Our review identified four main pillars, each of which are essential to oral medical care coordination. Several policy shifts are also important to support this transition: expanding insurance coverage options, standardizing billing codes/procedures, promoting value-based care, encouraging collaboration between policymakers and providers, and expanding the scope of practice to allow midlevel providers to deliver coordinated services.

The **Workforce Development and Operations** pillar is critical to this work, because a well-informed workforce is essential for effective implementation, and ongoing education is crucial to maintaining professional understanding and acceptance of coordinated care.

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