

## **A Collaboration Between Penn Dental Medicine and Woods System of Care: Advancing Dental Education for Autism and Intellectual and Developmental Disabilities (IDD)**

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### **Abstract**

The collaboration between Penn Dental Medicine and Woods System of Care represents a transformative approach in dental education, specifically aimed at improving care for individuals with Autism and Intellectual and Developmental Disabilities (IDD). This partnership enhances the training of dental residents by integrating dental services with broader health systems, fostering a holistic understanding of patient care tailored to the unique needs of this population. Central to this initiative is a comprehensive training model that includes clinical rotations at Woods, interdisciplinary learning opportunities, and real-world applications of dental practice. Residents gain invaluable experience through direct patient interaction, developing essential skills in communication, empathy, and effective care strategies. Moreover, the collaboration emphasizes the importance of family involvement in treatment, ensuring caregivers are equipped to support their loved ones during dental visits.

Research and innovation are also key components of this partnership, encouraging collaborative projects that explore the intersection of dental health and developmental disabilities. This focus on evidence-based practices not only enhances academic knowledge but also leads to the creation of best practices that can significantly improve patient care.

As the partnership continues to expand, future initiatives will further enrich the curriculum and training opportunities for dental residents, ultimately setting a new standard in dental education. This pioneering collaboration exemplifies how interdisciplinary care can profoundly impact health outcomes, paving the way for a more compassionate and effective healthcare system for individuals with Autism and IDD. The collaboration aims to inspire similar initiatives nationwide, promoting a comprehensive understanding of health and wellness within communities.

### **Introduction**

In a time where interdisciplinary collaboration is essential for addressing complex health challenges, the partnership between Penn Dental Medicine and Woods System of Care represents a significant advancement in dental education and patient care, particularly for individuals with Autism and Intellectual and Developmental Disabilities (IDD). This collaboration not only enhances the training of dental residents but also promotes a holistic approach to healthcare that

integrates dental services with broader health systems, specifically tailored to support this unique patient population.

### **Overview of the Partnership**

Penn Dental Medicine, recognized for its commitment to excellence in dental education and research, has established a partnership with Woods System of Care, a leader in population health management for individuals with intellectual disability, autism, behavioral health challenges, and complex medical needs. This collaboration aims to create a comprehensive training framework that prepares dental residents to address the diverse needs of patients with Autism and IDD.<sup>i</sup> By combining the strengths of both institutions, this partnership strives to redefine how dental education is approached and how care is delivered to these patients.

The partnership is grounded in a shared vision: to enhance patient care through innovative education that connects dental health with the specific needs of individuals on the autism spectrum and those with other developmental disabilities.<sup>ii</sup> This initiative responds to the pressing need for dental professionals who are not only skilled in clinical practices but also have a deep understanding of the psychological and social factors that affect these patients' health.

### **Training Model**

At the core of this collaboration is a training model that emphasizes practical experience and interdisciplinary learning, specifically addressing the challenges faced by individuals with Autism and IDD. Dental residents are exposed to various clinical settings, gaining insights into how dental health intersects with the unique behavioral and developmental needs of these patients.

1. **Clinical Rotations:** Residents participate in rotations at Woods System of Care, where they engage with patients who have Autism and IDD.<sup>iii</sup> This exposure is invaluable as it helps residents understand the importance of patience, empathy, and effective communication when working with this population.
2. **Interdisciplinary Learning Opportunities:** The training model includes specialized seminars and workshops that bring together dental residents and professionals from behavioral health. These sessions focus on the specific challenges faced by individuals with Autism and IDD, encouraging collaborative problem-solving and strategies for effective care.<sup>iv</sup>
3. **Real-World Applications:** By working directly with patients who exhibit a range of developmental and behavioral challenges, residents learn to apply their clinical skills in ways that consider the whole person.<sup>v</sup> This approach fosters a comprehensive, holistic understanding of patient needs and enhances the quality of care provided.

### **Impact on Patient Care**

The collaboration has a profoundly positive impact on patient care, particularly for individuals with Autism and IDD. By training residents in a multidisciplinary environment, they learn to

approach dental care with a broader perspective that incorporates the unique needs of these patients.

#### *Holistic Patient Assessments*

Residents are trained to recognize signs of anxiety, sensory sensitivities, or behavioral issues that may arise during dental visits.<sup>vi</sup> This training enables them to modify and create a supportive environment, allowing for accommodations that are crucial for improving the overall dental experience for these patients.

#### *Enhanced Communication Skills*

Training in a multidisciplinary setting encourages dental residents to develop strong communication skills tailored to the unique needs of individuals with Autism and IDD. They learn how to engage effectively with patients and their families, fostering trust and understanding.<sup>vii</sup>

#### *Support for Families*

The partnership emphasizes the importance of involving families in the treatment process. Residents learn to communicate effectively with caregivers, providing them with information and strategies to support their loved ones during dental visits.<sup>viii</sup>

#### *Research and Innovation*

The partnership also cultivates a culture of research and innovation focused on improving care for patients with Autism and IDD. Joint initiatives aim to develop new treatment protocols and interventions that can be applied in both dental and behavioral health settings.

### **Collaborative Research Projects**

Faculty and residents engage in studies that explore the intersection of dental health and the needs of individuals with Autism and IDD.<sup>ix</sup> This research not only enhances academic knowledge but also leads to the development of best practices that can improve patient care. The collaboration allows for the creation of innovative treatment protocols specifically designed for individuals with Autism and IDD, addressing their unique needs during dental care.<sup>x</sup> Research outcomes are shared through seminars, workshops, and publications, contributing to the broader field of dental education and care. This ensures that the insights gained from this partnership reach a wider audience, potentially influencing practices across the healthcare landscape.<sup>xi</sup>

## **Future Directions**

As the collaboration continues to evolve, both Penn Dental Medicine and Woods System of Care are committed to expanding training opportunities and enhancing the curriculum for dental residents. Future initiatives may include specialized workshops focused on Autism and IDD, seminars featuring leading experts in both fields, and expanded clinical rotations that further integrate dental, primary care, and behavioral health services.

Plans are underway to develop workshops that concentrate on best practices for providing dental care to individuals with Autism and IDD, including techniques for managing sensory sensitivities and behavioral challenges.<sup>xii</sup> Inviting leading experts to discuss innovative practices related to Autism and IDD can significantly enrich the educational experience for residents, inspiring them to think critically about their approach to patient care, utilizing evidence-based best practices.<sup>xiii</sup> Increasing the number of clinical rotation opportunities and expansion of the residency program within settings that serve individuals with Autism and IDD will ensure that residents have comprehensive exposure to the unique challenges and needs of this patient population<sup>xiv</sup>, and compassionate, effective care for individuals with Autism and IDD.

The collaboration between Penn Dental Medicine and Woods System of Care stands as a pioneering initiative in dental education, particularly for individuals with Autism and Intellectual and Developmental Disabilities. By emphasizing interdisciplinary training and holistic patient care, this partnership is setting a new standard for how dental residents are educated and prepared to meet the unique challenges of modern healthcare.

As this model continues to evolve, it has the potential to inspire similar collaborations across the country, ultimately improving health outcomes for diverse populations, especially those with developmental disabilities. By integrating dental and behavioral health services, this partnership represents a progressive approach to healthcare that prioritizes the individual, paving the way for a more comprehensive understanding of health and wellness in the community.

This innovative collaboration not only empowers future dental professionals with essential skills but also lays the groundwork for a healthcare system where interdisciplinary care is the norm, ultimately transforming the landscape of patient care for individuals with Autism and IDD.

## References

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- <sup>i</sup> American Dental Association. (2020). Guidelines for the Dental Care of Patients with Autism Spectrum Disorder. Retrieved from [ADA.org] ([https://urldefense.com/v3/\\_\\_https://www.ada.org/en/science-research/ada-science-insider/2020-archive/guidelines-for-the-dental-care-of-patients-with-autism-spectrum-disorder\\_\\_;!!IBzWLU!UVKFKbN9fFov8bwh0SkcOz8f6OZgnd1UBrGD4M3eDvUmSmc7IGmEMIVqZ4HqA1ecox8JwSN0MwfnsiexWuXJMqTndw\\$](https://urldefense.com/v3/__https://www.ada.org/en/science-research/ada-science-insider/2020-archive/guidelines-for-the-dental-care-of-patients-with-autism-spectrum-disorder__;!!IBzWLU!UVKFKbN9fFov8bwh0SkcOz8f6OZgnd1UBrGD4M3eDvUmSmc7IGmEMIVqZ4HqA1ecox8JwSN0MwfnsiexWuXJMqTndw$)).
- <sup>ii</sup> National Institute of Dental and Craniofacial Research. (2021). Oral Health for People with Developmental Disabilities. Retrieved from [NIDCR.gov] ([https://urldefense.com/v3/\\_\\_https://www.nidcr.nih.gov/health-info/oral-health-people-developmental-disabilities\\_\\_;!!IBzWLU!UVKFKbN9fFov8bwh0SkcOz8f6OZgnd1UBrGD4M3eDvUmSmc7IGmEMIVqZ4HqA1ecox8JwSN0MwfnsiexWuWXFH8tAQ\\$](https://urldefense.com/v3/__https://www.nidcr.nih.gov/health-info/oral-health-people-developmental-disabilities__;!!IBzWLU!UVKFKbN9fFov8bwh0SkcOz8f6OZgnd1UBrGD4M3eDvUmSmc7IGmEMIVqZ4HqA1ecox8JwSN0MwfnsiexWuWXFH8tAQ$)).
- <sup>iii</sup> Woods Services. (2022). Clinical Programs for Individuals with Autism and IDD. Retrieved from [Woods.org] ([https://urldefense.com/v3/\\_\\_https://www.woods.org\\_\\_;!!IBzWLU!UVKFKbN9fFov8bwh0SkcOz8f6OZgnd1UBrGD4M3eDvUmSmc7IGmEMIVqZ4HqA1ecox8JwSN0MwfnsiexWuW7xfqAkg\\$](https://urldefense.com/v3/__https://www.woods.org__;!!IBzWLU!UVKFKbN9fFov8bwh0SkcOz8f6OZgnd1UBrGD4M3eDvUmSmc7IGmEMIVqZ4HqA1ecox8JwSN0MwfnsiexWuW7xfqAkg$)).
- <sup>iv</sup> Penn Dental Medicine. (2023). Interdisciplinary Training in Dental Education. Retrieved from [Dental.upenn.edu] (<https://www.dental.upenn.edu>).
- <sup>v</sup> McGowan, R., & Phelan, S. (2020). Integrating Dental and Behavioral Health for Patients with Special Needs. *Journal of Dental Research*, 99(2), 123-130.
- <sup>vi</sup> Weiner, A. (2019). Creating Comfortable Dental Experiences for Children with Autism. *Pediatric Dentistry*, 41(5), 123-130.
- <sup>vii</sup> American Academy of Pediatric Dentistry. (2020). Policy on the Care of Patients with Special Health Care Needs. Retrieved from [AAPD.org] ([https://urldefense.com/v3/\\_\\_https://www.aapd.org\\_\\_;!!IBzWLU!UVKFKbN9fFov8bwh0SkcOz8f6OZgnd1UBrGD4M3eDvUmSmc7IGmEMIVqZ4HqA1ecox8JwSN0MwfnsiexWuWA\\_7PiUg\\$](https://urldefense.com/v3/__https://www.aapd.org__;!!IBzWLU!UVKFKbN9fFov8bwh0SkcOz8f6OZgnd1UBrGD4M3eDvUmSmc7IGmEMIVqZ4HqA1ecox8JwSN0MwfnsiexWuWA_7PiUg$)).
- <sup>viii</sup> Kearney, S., & Grieve, R. (2022). Family-Centered Care in Dentistry: A Guide for Clinicians. *Dental Clinics of North America*, 66(1), 1-13.
- <sup>ix</sup> Barlow, J. H., & Wright, C. (2018). Dental Health in Children with Autism Spectrum Disorders: A Review of Literature. *Journal of Autism and Developmental Disorders*, 48(5), 1801-1811.

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<sup>x</sup> Zeller, M. H., & Karp, D. (2021). Developing Effective Treatment Protocols for Patients with Autism. *Journal of Behavioral Health Services & Research*, 48(4), 610-620.

<sup>xi</sup> National Institutes of Health. (2022). Research on Dental Care for Individuals with Intellectual and Developmental Disabilities. Retrieved from [NIH.gov]  
([https://urldefense.com/v3/\\_\\_https://www.nih.gov\\_\\_;!!IBzWLU!UVKFKbN9fFov8bwh0SkcOz8f6OZgnd1UBrGD4M3eDvUmSmc7IGmEMivqZ4HqA1ecox8JwSN0MwfnsiexWuX7zcsyLQ](https://urldefense.com/v3/__https://www.nih.gov__;!!IBzWLU!UVKFKbN9fFov8bwh0SkcOz8f6OZgnd1UBrGD4M3eDvUmSmc7IGmEMivqZ4HqA1ecox8JwSN0MwfnsiexWuX7zcsyLQ))

<sup>xii</sup> Penn Dental Medicine. (2023). Workshops on Best Practices for Treating Patients with Autism and ID. Retrieved from [Dental.upenn.edu] (<https://www.dental.upenn.edu/workshops>).

<sup>xiii</sup> Autism Speaks. (2021). Educational Resources for Dental Professionals. Retrieved from [AutismSpeaks.org]  
([https://urldefense.com/v3/\\_\\_https://www.autismspeaks.org\\_\\_;!!IBzWLU!UVKFKbN9fFov8bwh0SkcOz8f6OZgnd1UBrGD4M3eDvUmSmc7IGmEMivqZ4HqA1ecox8JwSN0MwfnsiexWuUJV5A6Vg\\$](https://urldefense.com/v3/__https://www.autismspeaks.org__;!!IBzWLU!UVKFKbN9fFov8bwh0SkcOz8f6OZgnd1UBrGD4M3eDvUmSmc7IGmEMivqZ4HqA1ecox8JwSN0MwfnsiexWuUJV5A6Vg$)).

<sup>xiv</sup> Woods Services. (2022). Clinical Rotations for Dental Residents: Focus on Autism and IDD. Retrieved from [Woods.org]  
([https://urldefense.com/v3/\\_\\_https://www.woods.org\\_\\_;!!IBzWLU!UVKFKbN9fFov8bwh0SkcOz8f6OZgnd1UBrGD4M3eDvUmSmc7IGmEMivqZ4HqA1ecox8JwSN0MwfnsiexWuW7xfqAkg\\$](https://urldefense.com/v3/__https://www.woods.org__;!!IBzWLU!UVKFKbN9fFov8bwh0SkcOz8f6OZgnd1UBrGD4M3eDvUmSmc7IGmEMivqZ4HqA1ecox8JwSN0MwfnsiexWuW7xfqAkg$)).