Examining Surgery Wait Times and Treatment Effects in Adult Patients with Disabilities

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Background

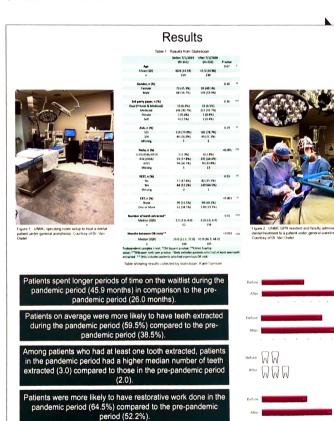
- The AAPD defines special health care needs (SHCN) as "any physical, developmental, mental, sensory, behavioral, cognitive, or emotional impairment or limiting condition that requires medical management, health care intervention, and/or use of specialized services or programs."
- Patients with SHCN demonstrate higher levels of tooth decay, calculus, malocclusion, bruxism, and an increased risk of gingivitis and periodontitis,^{1,2,3}
- Dental treatment under general anesthesia is a necessity for many of these patients. However, low financial reimbursement, lack of trained providers, and limited operating room (OR) time can make finding care difficult.^{1,4}
- The COVID-19 pandemic heavily impacted access to dental care for SHCN patients, due to factors such as loss of insurance coverage and increased wait times for those needing treatment in the OR.5

Objective

- The General Practice Residency (GPR) program at UNMC provides dental care in the OR to adult patients with SHCN, specifically those with intellectual and/or developmental disabilities.
- Since the COVID-19 pandemic, wait times for patients to receive care in the OR have increased due to diminished OR time and a long wait list of patients who need care.
- Research was conducted to determine whether longer wait times and intervals between care have impacted treatment plans for patients seen in the operating room.

Methods

- Data was gathered from patient records ages 19 and older that were seen under general anesthesia for dental work by the UNMC GPR residency program from June 30th, 2016 to June 30th, 2019 and June 16th, 2020 to June 16th, 2023.
- Values collected included age, gender, ASA, number of teeth extracted, periodontal treatment code, and whether restorative work was completed.
- In total, 602 patient records were included. To ensure independence in the data for analysis, only the first visit per patient in the dataset was included (n=393).
- · Values were analyzed by a statistician for significance



Patients were more likely to have scaling and root-planing

completed during the pandemic period (64.4%) compared to

Figure 3 – Bar graphs demonstrating results from Table 1

the pre-pandemic period (36.4%)

Conclusion

Increased wait times for dental treatment in the OR have resulted in patients requiring more extensive care, including restorative, oral surgery, and periodontal treatment.

Discussion

- The increased wait period for patients to receive dental care in the OR is impacting the treatment provided.
- Longer wait times may lead to an exacerbation of dental problems that could be prevented or treated less aggressively with earlier intervention.
- Dental providers may elect to follow more extensive, radical treatment options with the knowledge that these patients may not receive care again for years.⁶
- There are few preventative solutions in place to help diminish the burden of dental disease placed on patients requiring dental care in the OR.
- Financial programs generally do not provide reimbursement for "behavioral or psychological interventions, social supports, or community-based prevention strategies."
- Low reimbursement rates lead to a financial disincentive to treat patients in the OR, and result in a lack of access to operating room time. Dental providers must advocate for increased OR time and adequate financial reimbursement.
- Dental educators must address the increased risk of dental disease in patients with SHCN, and work to implement changes to equip dentists with the knowledge and skills to care for this population.

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