UTHealth Houston School of Dentistry

Purpose: This retrospective study aimed to evaluate the role of dental insurance type on utilization of advance behavior guidance [ABG] modalities: moderate sedation (IV) and general anesthesia (GA), in pediatric patients. Methods: A retrospective chart review of pediatric patients (<18 years) at UTHealth School of Dentistry spanning 2016-2023 was conducted. ABG procedure codes were categorized into MS, IV and GA. Type of dental insurance was categorized as public [Medicaid, CHIP], private, or uninsured. The influence of insurance type ABG codes completion was analyzed using chi-square test, generalized linear models with Poisson errors, and ANOVA models; P< 0.05 was considered significant. Results: There were 19,122 records [Mean age=8.2 (±4.8), Female=48%] which met the inclusion criteria. The distribution of insurance type was 54% public, 36% uninsured, and 10% private. Uninsured children had less MS and GA codes completed than children with public or private insurances (P< 0.001). Children with private insurance had the least number of IV codes completed than publicly insured (P < 0.04) or uninsured children (P < 0.001). There was no significant difference in utilization of MS for children with private and public insurance (P = 0.9). Conclusion: Uninsured children were less likely to be treated with IV. Insurance type, and by extension socioeconomic factors, appear to be a determining factor for type of ABG modality utilized in children.

BACKGROUND

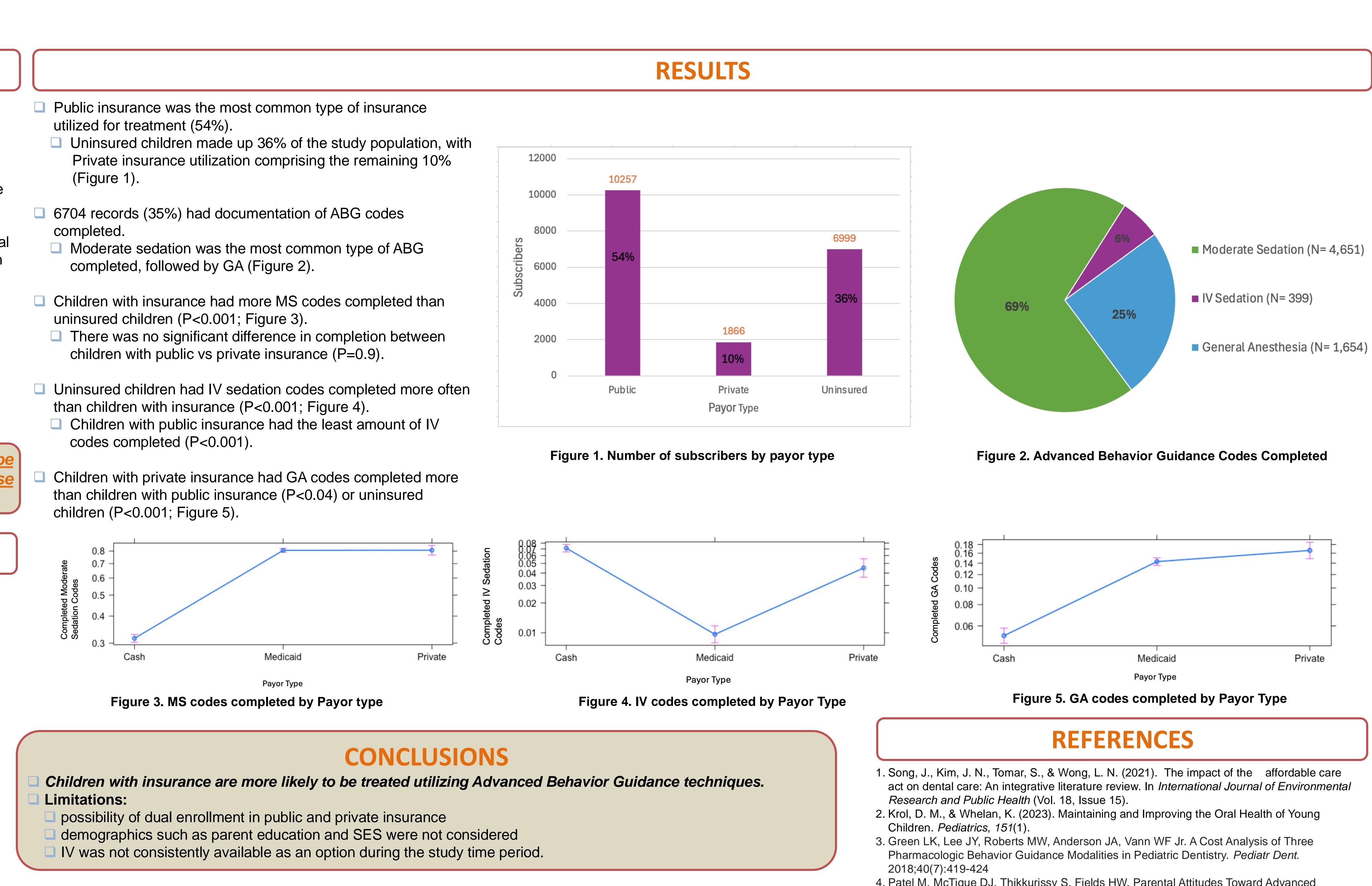
- The ACA included pediatric dental care as an essential health benefit, mandating coverage be available in the federal and state health insurance marketplace.¹
- Low-income children have a greater incidence of caries, greater unmet need and require more dental care than their higher income peers²
- Cost remains the major barrier for accessing dental care. Additional barriers include geographic location, dentist density, special health care needs and lack of insurance.¹
- Parents are becoming more accepting to pharmacological behavioral guidance, including moderate sedation and general anesthesia.³
- Insurance coverage often determines what treatment families will accept. Insurance may refuse reimbursement when treatment is deemed "not medically necessary".³⁻⁴

We hypothesize that advanced behavior guidance will be utilized more often for children with insurance than those without insurance.

METHODS

- UTHealth Houston Institutional Review Board Approval: HSC-DB-24-0329
- Patients aged 0-18 seen in the UT Graduate and Pre-Doctoral Pediatric Dentistry Clinics for in-office moderate conscious sedation, IV Sedation, and GA in a hospital setting were identified.
- 19,122 charts were selected and the following information was obtained:
 - Age, gender and ethnicity of patient
 - Caries risk level
- Payor type: Public (Medicaid/CHIP), Private or Uninsured
- Number of advanced behavior guidance codes completed
- Data was collected in Microsoft Excel and analyzed using R statistical software (R Core Team 2022)

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4. Patel M, McTigue DJ, Thikkurissy S, Fields HW. Parental Attitudes Toward Advanced Behavior Guidance Techniques Used in Pediatric Dentistry. *Pediatr Dent*. 2016;38(1):30-36.