EVALUATING ACCESS TO PEDIATRIC DENTAL SERVICES VIA CLINIC REFERRALS



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Background

- 1 in 3 children in Illinois are covered by Medicaid¹.
- Over half the state population is in a dental provider shortage area².
- 15% of Illinois dentists participate in Medicaid and CHIP³.
- University of Illinois Chicago College of Dentistry (UIC-COD) is Illinois' largest provider of children's dental services under Medicaid.
- Many pediatric patients referred to UIC-COD need restorative services but have recently received preventive services elsewhere.
- Delivering restorative as well as prophylactic care in the communities where children live is a significant public health need.

Objectives

- Quantify the proportion of pediatric patients referred to UIC-COD needing restorative and preventive care.
- Investigate associations between patient demographic characteristics and referral for restorative care.

Methods

Inclusion Criteria:

- ✓ Children age 1–17 years with ≥1 fully permanent tooth.
- ✓ Seen at UIC-COD for comprehensive (COE) between January 1, 2019 and

Sampling:

- Queried axiUm electronic patient rec
- Randomly selected 200 charts per ye

Data Extracted:

- Age, ASA status, home ZIP code, refer (referred/not-referred).
- History of dental check-up in preced COE/POE (comprehensive/periodic o
- History of preventive dental treatment months.
- Number of decayed teeth, number of
- Restorative needs.

Data Analysis:

- Abstracted data was entered into Mi (Microsoft Corporation, Redmond, W then exported to SPSS version 28 (IB NY) for analysis.
- Calculated the proportion of teeth w ۲
- Calculated distance between home a
- Univariate descriptive statistics to ch sample.
- Bivariate analysis by chi-square and appropriate, to test for associations

Rawle LA¹, Hanson-Dansby AG², Tomar SL¹, Valencia A¹, LeHew CW¹, Hill BJ¹

	Results											
erupted primary or	 N=600 n=329(N=600 patient charts selected. n=329(55%) were referred to UIC COD by a dentist. n=271(45%) non-referred. 										
	• More non-referred than dentist-referred patients were medically healthy: 90% vs. 85%, p=.045.											
oral examination	Patients came from 211 different ZIP codes: 43 in Chicago and 168 outside Chicago.											
December 31, 2021.	No diffe	No difference in travel distance of dentist-referred and non-referred patients. (Table 1)										
	No diffe	 No difference in mean age of dentist-referred and non-referred patients. 										
cord system.	• Non-re	 Non-referred had a lower percentage of carious teeth than dentist- referred patients. 										
ear for review.	• Fewer non-referred than dentist-referred patients had received a dental cleaning. (Table 2)											
	• Fewer r	non-referre	ed than dei	ntist-referr	ed patients	s had rece	eived flue	oride app	olications	S.		
ral status Few patients in either group had restorative treatment completed.												
	• Few pa	tients in ei	ther group	had fissur	e sealants	placed.						
ing 6 months	• Fewer	non-referre	ed than dei	ntist-referr	ed patients	s needed	restorati	ve treatr	nent.			
oral exam).					-							
nt in the preceding 6	Table 1 Dat	ient Demog	ranhics: Maa	ns and Stand	lard	Table 2.	Treatment	s Received	l and Trea	tments l	Veeded	
	Deviations.	lient Demog		ins and stand								
f teeth present.		ana a a			p for Referral			Dentist-			p for Referral	
	Variable	Whole Sample	Dentist-Referred	Not-Referred	Status Comparisons	Variable	Whole Sample	Referred	Not-Referred	х2 (<u>df</u>)	Status Comparisons	
	Age in Years (mean +/- SD)	5.7 ± 3.0	5.6 ±2.99	5.5 ±3.23	.415	POE/COE	56.3% (n=338)	63.8% (n=210)	47.2 % (n=128)	16.64(1)	<.001	
crosoft Excel	Distance Travelled (mean +/- SD)	27.6 ± 31.7	29.74±34.37	25±27.99	.131	Fluoride Varnish	50.3% (n=302)	56.83%(n=187)	43.8% (n=124)	12.33(1)	<.001	
/A) spreadsheet.	Number of Teeth (mean +/- SD)	20.9± 3.03	21.04± 2.93	20.74 ± 3.14	.217	Sealants	11.0% (n=66)	12.5% (n=41)	9.2%(n=25)	1.59(1)	.207*	
M Statistics, Armonk,	Number of Teeth with Caries (mean +/- SD)	6.24±4.44	6.93±4.32	5.41±4.45	<.001	Restorative work completed	1.5% (n=9)	0.6% (n=2)	2.6% (n=7)	3.92(1)	.086*	
	Percent of Teeth	30%±.22	33% ±.21	27%±.23	<.001	Treatment completed	1.5% (n=9)	.30% (n=1)	2.95% (n=8)	7.053(1)	0.013*	
ith untreated decay.						Treatment	92.5% (n=555)	97.0% (n=319)	87.1% (n=236)	20.89(1)	<.001	
ind UIC-COD.								1	*	Fisher's	Exact Test	
aracterize the					Consta							
		Conclusions										
Mann-Whitney U, as												
among variables.	Pediatric	patients u	under Medi	caid denta	linsurance	e at UIC-C	OD who	have bee	en referre	ed by d	entists	

are more likely than non-referred patients to have received prophylactic care and to need restorative care. Illinois dentists demonstrate a tendency to provide prophylactic services for these patients and then refer them to specialty care facilities for needed restorations. Children under Medicaid dental insurance are not receiving sufficient levels of care in their communities. This represents a significant public health problem in Illinois.