ECU

Structured Documentation of Child Abuse History After Treatment of Pediatric Patients for Confirmed or Suspected Child Maltreatment

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BACKGROUND/RATIONALE

- Nonac cidental trauma (NAT) is a leading cause of mortality in children within the United States, causing nearly 2000 deaths per year.1,2
- Patients who have experienced NAT and other forms of maltreatment are at a greater risk of developing chronic conditions and poor medical outcomes in adulthood.4
- Due to the potential for long-term sequelae of chid maltreatment, including NAT, it is important to recognize and monitor patients who are survivors of physical abuse and childhood trauma during their continuing care.5-7
- Documenting and monitoring the history of child abuse in electronic health records (EHR) can be facilitated by use of International Classification of Diseases (ICD)-Clinical Modification (CM) coding but these codes appear to be under-used for tracking SDH in both surgical and nonsurgical patient populations.8,9
- This lack of documentation may stem from a concern that tracking social issues to guide preventive medicine may lead to social profiling and be detrimental to patient care. 9
- A Z code specifically identifying a history of child maltreatment is available in ICD-10-CM (Z62.81),9 and routine use of this Z code could help assure accurate identification and enhance continuity of care for children who had previously experienced maltreatment. However, patterns of use of this code to document a history of child maltreatment have not been previously investigated.
- We sought to determine how frequently the Z62.81 code for history of child maltreatment was used in documentation of clinical encounters by children who had previously received treatment for injuries and neglect related to child maltreatment in a single academic health system.

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Variable	Patients without Z Code N (%) or median (IQR)	Patients with Z Code N (%) or median (IQR)	P-value
Location Clinic	65 (39.88%)	5(41.67%)	
Location ED	56(34.36%)	6(50.00%)	
Location Inpaitent	42(25.77%)	43(24.57%)	0.38
Physical Abuse	46(28.22%)	1(8.33%)	0.18
Sexual Abuse	58(35.58%)	9(75.00%)	0.01
Other Abuse	79(48.47%)	3(25.00%)	0.14
Non- Hispanic Black	91(55.83%)	5(41.67%)	
Non-Hispanic White	37(22.70%)	2(16.67%)	
Hispanic/Latino	24(14.72%)	5(41,67%)	
Other Race and Ethnicity	11(6.75%)	0(0.00%)	0.15
Medicaid	129(79.14%)	9(75.00%)	
Other Insurance	34(20.86%)	3(25.00%)	0.71
Anxiety	14(8.59%)	2(16.67%)	0.30
Depression	9(5.52%)	2(16.67%)	0.16
Eating Disorder	3(1.84%)	0(0.00%)	
Substance Abuse	4(2.45%)	1(8.33%)	0,30
Chronic Pain	1(0.61%)	0(0.00%)	
Cardiovascular Disease	18(11.04%)	1(8.33%)	
Female	93(57.06%)	9(75.00%)	
Mate	70(42.94%)	3(25.00%)	0.36

Table 1: Demonstrates only documentation of sexual abuse was associated with subsequent use of the Z62.81 code.

or median (IQR) P-value
0.81
0.319
0.15
0.724
0.046
0,518
0.54
0.727
0.563
1
1
0.78
0.216

Table 2: Repeats bivariate analysis while stratifying the sample based on any subsequent use of T74 or T76 diagnosis codes only race and ethnicity was associated with this secondary outcome. With white patients more likely to have T74 or T76 codes documented.





METHODS

- We queried records from pediatric and adult emergency departments (EDs), inpatient pediatric units, and outpatient pediatric clinics operated by the ECU Health system.
- Patients were included in this study if they were between the ages of 0 and 17 years of age and had an encounter or admission d agnosis of child mattreatment (ICD-10-CM codes T74.x, which identify cases of suspected mattreatment; or T76.x, which identify cases of confirmed mattreatment) at any of these locations between 1/1/2018 and 12/31/2019.
- The primary outcome was use of the code 262.81 in each subsequent visits to ECU Health fadilies' main campus, as determined by EHR documentation. Patients were assessed for subsequent clinic visits, ED visits or hospitalizations between the index encounter and 01/01/2024.
- A secondary outcome was defined as use of either the T74 or T76 codes at each subsequent encounter. In a random 10% subsample of patients with no subsequent use of the Z62.81 code after the initial encounter, we manually reviewed the latest available dinic note, ED visit note, or admission notes to determine if history of child maltreatment was captured in free-text documentation.
- Other independent variables collected at the time of the index encourter included whether it was a dinic visit (primary care vs. subspecialty clinic), ED visit, or inpatient hospitalization, with hospitalizations divided further into medical and surgical admissions. We also classified the specific form of mattreatment coded at the index visit as physical abuse, sexual abuse, or neglect; age; sex; race and ethnicity (American Indian, Asian, Black, Hispanic, or White); and primary payor type for the index encourter, classified as Medicaid, commercial, other, or none.
- We also queried other diagnoses present at the index encounter, including chronic illnesses such as cardiac disease and psychiatric conditions. Data collected at the time of each subsequent encounter included the type of encounter (classified as described above), and time since the index visit (in months).

DISCUSSION

- Our study demonstrated a **significantly limited use of Z Codes** among cases of child maltreatment in follow up appointments. Particularly concerning was the lack of documentation in appointments that directly related to the original case of maltreatment.
- The lasting consequences on an individual's health following maltreatment has been widely reported and the importance of following patients and providing subsequent care for maltreatment cannot be understated. We demonstrate an area of needed improvement and focus for clinicians to ensure that children who suffer from maltreatment do not lack proper care and follow up.
- It is imperative that providers implement documentation of child maltreatment at subsequent visits. The limited utilization of Z Codes may be improved by increasing understanding on the significant impact identifying and recording social determinants of health to improve patient outcomes and reduce the impact social determinants of health have on an individual's health 8.