What Percent of Pediatric Femur Fractures Get Screened for Non-Accidental Trauma? *Maia H. Hauschild, BA*; Hanna Nidal Omar, BS; Natalya Sarkisova, BS; Christopher Lee, MD; Rachel Y. Goldstein, MD Children's Hospital Los Angeles, Los Angeles, California, UNITED STATES

Purpose: The femur is the most common location for non-accidental trauma (NAT)-related fractures. The American Academy of Orthopaedic Surgeons clinical practice guidelines (CPG) recommend screening all patients with a diaphyseal femur fracture aged 36 months and under. Unfortunately, this guideline is variably adhered to. The purpose of this study is to determine the patient characteristics associated with a physician's decision to perform a NAT workup and results of NAT workup.

Methods: A retrospective review of patients 0 to 36 months old diagnosed with a femur fracture between 1 January 2004 and 9 April 2019 at our institution. NAT was defined as a positive workup identified by social services, skeletal survey, or ophthalmological examination. Patients with incomplete medical records were excluded.

Results: A total of 277 patients were identified, and 71% were screened for NAT. Patients under 1 year old were significantly more likely to undergo a NAT workup (P = 0.009, odds ratio [OR] 2.3; 95% confidence interval [CI] 1.2-4.4) and receive a positive result from the NAT workup (P<0.001, OR 11.3; 95% CI 4.6-27.4). Additional injuries were also a signifi-

cant predictor of a positive NAT workup (P<0.001, OR 5.3, 95% CI 2.4-11.9). Patient race/ethnicity, sex, and fracture type were not significantly associated with the physician's decision to perform an NAT workup.

POSTER ABSTRACTS

Conclusion: Children under 1 year of age presenting with pediatric femur fractures should be screened for NAT. Further studies evaluating the effect of patient race / ethnicity and socioeconomic status on evaluation for NAT from a perspective of intersectionality would further illuminate bias in physicians' approach to abuse evaluation and reporting. Table 1. Demographic Predictors of Patients Identified for NAT Workup

	Patients Identified for NAT Workup	P-value
	(n=197)	
Age at Presentation		
Under 1 year	69/84 (82%)	0.009
1 year and older	128/193 (66%)	
Sex		
Female	62/80 (78%)	0.1
Male	135/197 (69%)	
Race/Ethnicity		
Asian	12/14 (86%)	0.7
Black/African American	24/34 (71%)	
White	22/36 (61%)	
Hispanic	118/158 (75%)	
Other	21/35 (60%)	
Type of Fracture		
Transverse	14/17 (82%)	0.6
Spiral	71/96 (74%)	
Comminuted	3/3 (100%)	
Oblique	25/35 (71%)	
Buckle	4/5 (80%)	
Not Indicated	80/121 (66%)	
Additional Injuries		
Yes	32/41 (78%)	0.3
No	165/236 (70%)	

p -values from logistic regression.

See the meeting website for complete listing of authors' disclosure information. Schedule and presenters subject to change.