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Keeping Up! New Literature in Child Abuse Medicine

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Quarterly
Child Abuse Medical Update



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- Three Disclosures:
 - All selections are drawn from the past year of The Quarterly Update, a subscription based publication
 - I am a salaried employee of the Ray E. Helfer Society, as executive editor of *The Quarterly* Update
 - I am not paid per-subscription or per new subscription
- Both selection of articles and commentary is, by necessity, editorial!

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Validation of a clinical decision rule to predict abuse in young children based on bruising characteristics
Pierce MC, Kaczor K, Lorenz DJ, et al.

JAMA Network Open. 2021; 4: e215831
https://doi.org/10.1001/jamanetworkopen.2021.5832





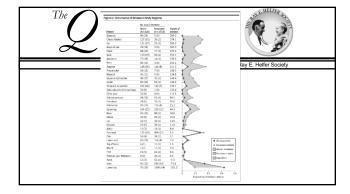
- Population
- 2161 children <4-years-old in the ED
- NO: Car crash, Coag, Neuro, Skin d/o
- Exposure/Intervention
 Abuse: determined by 9 experts
- Comparison
- Non-Abuse: determined by panel of 9 experts
- Outcome
 - Characteristics of identified bruising

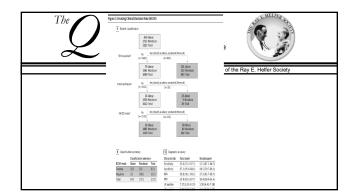




- TEN-4-FACES-P
- Torso Ear
- Neck
 Any bruise age 4.99 months or less
- Frenum
 Angle of jaw
- Cheek (fleshy)
- Eyelid Sclera
- Patterned

- Sensitivity: 95.6%
- Specificity: 87.1%
- NPV: 98.8%
- PPV: 63.9%









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Chronic subdural hemorrhage predisposes to development of cerebral venous thrombosis and associated retinal hemorrhages and subdural rebleeds in infants

Vaslow DF.

The Neuroradiology Journal. 2021; Online ahead of print https://doi.org/10.1177/19714009211026904

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- Case series of 11 consecutive cases reviewed for the defense in preparation for trial on charges of child abuse!
- Cases with skeletal injuries excluded.
- 11 of 11 cases had Chronic SDH, Cerebral Vein Thrombosis, Subarachnoid hemorrhage, and Seizure.
- 8 of 11 probable Cerebral Venous Sinus Thrombosis, only one fully
- 10 of 11 had retinal hemorrhage, not otherwise characterized





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- Two short fall, one parent falling against the child
- One "dysphagic choking" => BRUE
- Various legal outcomes
- NO evaluation for predisposing conditions to CVST other than trauma
- Limited longitudinal follow-up (One CSVT was cleared the next day.)
- No case with previously identified cSDH

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- Assertion of author opinion
- Argument from first principles
- \bullet Makes many of the common arguments proposed in defense of AHT

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Subdural hemorrhage in a cohort with cerebral sinovenous thrombosis: application to abusive head trauma

Anderst J, Carpenter S, Frazier T, et al. Child Abuse & Neglect. 2021; 117: 105119 https://doi.org/10.1016/j.chiabu.2021.105119





- Population
 Children birth to 19 years in an international stroke and CSVT registry
- Exposure/Intervention
 Imaging evidence of CSVT

- Comparison
 No comparison, descriptive study
- Outcome
 Presence of SDH

 - Related symptoms
 Related causative etiologies
 216 CSVT (56 perinatal)
 69 Intracranial hemorrhage
 - 20 subdural, 49 other

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- Symptoms/outcome
 - NO deaths
 - 11 Impaired neurologic outcome
 - Seizure
 - Vomiting
 - In NO case was CSVT their Lethargy
 Irritability primary explanation for the

 - Focal neuro deficit
 - Incidental on imaging for risk factor
- Etiology/risk factor
 - 8 SDH consistent with intra-partum 1 other peri-natal SDH
 - 3 accidental trauma
- trauma (multi-system)
- ehydration SDH
 - 2 coagulopathy
 - 2 post ECMO/bypass
 - 3 post neurosurgery

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Subdural hemorrhage in asymptomatic neonates: neurodevelopmental outcomes and MRI findings at 2 years

Zamora C, Sams C, Cornea EA, et al. Radiology. 2021; 298: 173-179 https://doi.org/10.1148/radiol.2020201857





- Population
 - 311 Newborns consecutively enrolled in the North Carolina Early Brain Development
 Study AND having a neonatal MRI (1-5 weeks of age)
 No twins, significant brain anomalies, major medical conditions
- Exposure/Intervention
 Subdural hematoma on neonatal MRI n=57
- Comparison
 No subdural hematoma on neonatal MRI n=254
- Outcome
- Development at 1 and 2 years
 Neurological problems in first 2 years
 Follow-up MRI at 1 and 2 years



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- NO differences on Mullen Scales of Early Learning
- 2% identification of Chiari malformation in cases AND controls
- NO differences in Gray matter volumes
- All SDH resolved with no intercurrent hemorrhage
- NO rebleeding found during 2-years of follow-up
- NO neurological deterioration or events
- Under-powered: AHT incidence of 30/100,000 infants in the first year

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Human papillomavirus type distribution in anogenital lesions

of prepubertal children
Braun SA, Silling S, Schloer SM, et al. J Eur Acad Dermatol Venereol. 2021; 35: 1219-1225 https://doi.org/10.1111/jdv.17114





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- Population: 55 pre-pubertal children with surgical removal of anogenital verucca
- Exposure/Intervention: Mucosal DNA type
- Comparison: Cutaneous DNA type
- Outcome: Age, Sexual abuse suspicion

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- Mucosal types, particularly type 6, more predominant in children 1-4 years old
 - Age at which vertical transmission from birth is most likely to present
- Cutaneous types predominate in children 5-12 years old
 - ?Fondling, acquisition during genital care by adults, auto-inoculation?
 - \bullet 9 children had hand or body warts, but 1 had a type 6 wart
- Only 3 cases "highly suspicious" for sexual abuse
 - Each had type 6 warts (non statistical)





HPV Type	All	1-4 Yrs	5-12 Yrs	Р
All	53	25	28	
2	6	0	6	0.014
6	27	20	7	<.0.001
11	1	1	0	0.285
16	2	1	1	.935
27	2	0	2	0.173
33	1	1	0	0.285
57	15	4	11	0.060
61	1	0	1	0.340
Mucosal	31	22	9	<0.001
Cutaneous	23	4	19	<0.001





Anogenital warts and relationship to child sexual abuse:

Awasthi S, Ornelas J, Armstrong A, Johnson JA, Eisen DB. Pediatr Dermatol. 2021; 38: 842-850 https://doi.org/10.1111/pde.14650

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- Population: 791 children from 25 international studies with anogenital warts
- Exposure/Intervention: Sexual abuse
- Comparison: Sexual abuse excluded
- Outcome: Age, wart location



- · Qualitative analysis
 - 20% of all children with AG warts were abused (9% 0-2Y, 47% 3-4Y, 43%
 - 5-8Y, 50% 9-12Y)?Typo in the paper?
 Standards for defining abuse varied, some studies used diagnostic standards from the 80s and 90s
 - Some countries diagnosed abuse more frequently (Australia, Brazil, Togo)
 - Overlap in DNA types between abuse and non-abuse





- Quantitative analysis (only includes 209 children)
 - · Likelihood of abuse rises with age
 - >2 years

95% CI (2.19 – 25.4) (2.04 – 10.86) (1.94 – 24.8) Odds ratio 7.45 6.52 Age 3-4 9-12 6.93

• VS Only Anal, Genital location had an Odds ratio of 5.93 (2.25 – 15.63)







Patterned bruises from abusive squeezing

Petska HW, Frasier LD, Livingston N, Moles R, Sheets LK. Pediatr Emerg Care. 2021; 37: e351-e353 https://doi.org/10.1097/PEC.0000000000001717





- Case series: No PECO
- 4 Cases
 - 1 confessed hard squeezing
 - 1 witnessed hard squeezing
 - 1 additional fracture
 - 1 "innocent, non-traumatic" gripping reported

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Palm bruising in infants: a recognizable pattern of abuse

Ruiz-Maldonado TM, Johnson KL, Sabo JL, Sheets LK, Laskey A. *J Emerg Med.* 2021; 61: 198-204 https://doi.org/10.1016/j.jemermed.2021.02.018

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- Case series: No PECO
- 11 Cases, all <6-months-old
 - 2 admitted grabbing squeezing hands
 - 10 additional abusive trauma

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Discrepancies in physician and coroner findings in cases of fatal suspected physical child abuse

fatal suspected physical child abuse
Arnold TS, Siekmann T, Thackeray JD, Bridge JA, Cohen DM.
Pediatr Emerg Care. 2021; 37: e367-e371
https://doi.org/10.1097/PEC.000000000002476





- Population: 33 children <6 YO died in the ED with suspicion of abuse
- Exposure/Intervention: Coroners determination
- Comparison: ED clinicians opinion
- Outcome: Agreement and findings





- Of 33 suspected abuse
 - 3 Homicide/Trauma
- Of 12 positive skeletal survey
 5 Undetermined, 4 Natural, 2 Accident, 1 Homicide
 4 radiologist ID'd Fx absent at autopsy

 - 17 Fx not addressed by coroner

Age	MOD	COD	Skeletal Survey Fracture(s)	Related Findings on Autopsy
7 mo	Undetermined	Undetermined	Rib (healing): right lat 8th; left post 9th	Liver laceration, subgaleal hemorrhage, hemoperitoneum (massive), and old healed fracture of post left 9th rib
2 mo	Undetermined	Undetermined	Rib: left post 1st, 2nd, 4th, 5th, 6th, 7th, 8th, 11th; right post 1st, 10th Femur: left metaphysis corner	"The axial and appendicular skeleton shows no abnormalities"
1 mo	Undetermined	Undetermined	Femur: right distal comer	Subacute leptomeningitis and ventriculitis. Noted that "ribs and vertebral bodies are grossly intact." No documentation of other bones examined
4 mo	Undetermined	SUDS	Tibia: bi-lat, proximal torus	"The lower limbs are dissected and bilateral tibiae are visualized. No gross evidence of fractures noted"
4 mo	Undetermined	SUDS	Rib (healing): left lat 6th	Healing left lat 6th rib fracture
6 mo	Accident	Mechanical asphyxia	Tibia corner fracture: right, distal	Fractures of left 4th, 5th, and 6th ribs at costovertebral junction; contusion of left upper lobe of lung; left hemothorax
3 mo	Accident	Mechanical asphyxia	Ribs (healing): lat right 4th, 5th, 6th Metatarsal (healing): right first	Fractures of right 5th and 6th ribs with callous
7 mo	Natural	Panlobar aspiration pneumonia	Femur: left metaphyseal distal corner	Corner fracture not addressed
8 mo	Natural	Complication of GSD	Ribs: left 6th, 7th subacute anterolateral	Fractures of left 6th and 7th ribs, most likely due to CPR; cardiomegaly; hepatosplenomegaly
l mo	Natural	SIDS	Ribs: right 5th, 6th subacute	Lat fractures of right 4th, 5th, 6th, 7th, 8th, and 9th ribs; lat fractures of left 7th, 8th, 9th ribs; thought to be birth trauma
6 mo	Natural	Viral pneumonia	Skull: occiput	Intact skull

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Judges and forensic science education: a national survey

Garrett BL, Gardner BO, Murphy E, Grimes P. *Forensic Sci Int.* 2021; 321: 110714 https://doi.org/10.1016/j.forsciint.2021.110714

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- Population: 164 of 938 Judges who attended National Judicial College trainings and responded to a survey
- Exposure/Intervention:
- Comparison: Cross sectional descriptive study
- Outcome: Judges experience and thoughts about dealing with scientific evidence



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- 26 Judges did not have a law degree
- 37.45 (0 92%) of their cases had scientific evidence
- \bullet In 14.7% of these cases (0 100%) the judge had a hearing on admissibility
- In 13.5% of the cases the evidence was ruled inadmissible
- Frye vs Daubert did not influence this





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- Training in forensic science varied
 - 29.6% >1 week
 - 27% 2-7 days
 - 17.1% 1 day
 - 16.4% <1 day
 - 9.9% NO training
- 92.3% wanted training as Judicial continuing education
- Assessed availability of education varied from "nonexistent" to "excellent"



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- More training correlated to self assessed understanding of statistics and greater desire to exclude "junk science."
- More training did not predict different estimates in the error rates of 7 forms of evidence
- No questions related to child abuse or its differential diagnoses
- More training DID NOT correlate to greater likelihood of having admissibility hearings.
- \bullet More training DID correlate with greater likelihood of excluding evidence

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Re-evaluation of medical findings in alleged shaken baby syndrome and abusive head trauma in Norwegian courts fails to support abuse diagnoses.

Wester K, Stridbeck U, Syse A, Wikström J.

Wester K, Stridbeck U, Syse A, Wikström J. *Acta Paediatr*. 2021; Online ahead of print https://doi.og/10.1111/apa.15956





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- Population: 17 children listed in court records for prosecution of inflicted head trauma
- Exposure/Intervention: Original opinion
- Comparison: Authors' re-assessment
- Outcome: Agreement or revised opinion

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- In 16 of 17 cases the medical authors two neurosurgeons and one neuroradiologist – disagreed with the original opinions in the case
- 8 children had "external hydrocephalus" (benign expansion of the extra-axial fluid space)
- ullet 6 children were "hypoxic-ischemic injury like"
- \bullet Male preponderance in BESS and Female in HII was significant p=0.015

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- 8 to 11 had initial seizure
- 14 had sudden decompensation
- 8 had head impact injury (3 skull fx)
- 14 had retinal hemorrhage (3 limited)
- 5 children had healing rib fractures, 4 skull fractures, 2 healing clavicle fractures, 1 acute femur fracture
- \bullet 2 children died, 7 survived with severe brain injury





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Re-evaluation of abusive head trauma in Norway appears flawed

Stray-Pedersen A, Vollmer-Sandholm MJ, Aukland SM, et al. *Acta Paediatr*. 2021; Online ahead of print https://doi.org/10.1111/apa.16069

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- Population: 17 children listed in court records for prosecution of inflicted head trauma
- Exposure/Intervention: Reported details
- Comparison: Treating physicians review
- Outcome: Omitted facts
- Three cases had additional evidence of trauma not reported by Wester et al.
- In one case the defendant confessed to shaking the child violently, causing the injuries.



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The legal challenges to the diagnosis of shaken baby syndrome or how to counter 12 common fake news Vinchon M, Noule N, Karnoub MA.

Childs Nerv Syst 2021: Online shead of print

Childs Nerv Syst. 2021; Online ahead of print https://doi.org/10.1007/s00381-021-05357-8





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- Population: Review paper (i.e. editorial)
- Exposure/Intervention: "Shaken Baby Syndrome" critiques and denials
- Comparison: "Shaken Baby Syndrome" conventional view (French)
- Outcome: The authors seek to confront what they see as "fake news"



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Table 1 Two systems of thought	following parallel paths					
	Mainstream	Dissent				
Shaken buby syndrome	Well established entity, backed by evidence	Not proven				
Trauma	Violent shaking	None, or play, or accident				
No sign of impact	Shaking alone causes SRS	Lesions only if impact				
Scientific evidence	Confessions, animal experiments, computer models	None valid				
Bleeding	Corticodural veins and other mechanisms	Anoxia alone (Cf. birth trzuma, SIDS)				
Subdural collection	Infancile SDH	Hydrama, hygroma				
Caused by	Bleeding then CSF accumulation	External hydrocephalus				
Subdural closs	Often missing in SBS	If no clots, not a SDH				
Denial	Sincere denial of culprit	Sincerely innocent				
Confession	Sincere out of guilt	Extorted, plea burgain				
Diagnosis of SBS	Unequivocal in most cases	Miscarriage of justice				
Differential diagnosis	Beyond reasonable doubt	Must eliminate all possible (even unknown) causes				
Incomplete SBS triad	False-negative or delayed diagnosis	Not a SBS				
Scientific uncertainty	Factual knowledge is increasing	Doubt murilates acquittal				
Acquittal	Does not influence medical diagnosis	Proves the diagnosis was wrong				
Exposit's arises	Diseases and reset	Radioca monatura				



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Association of state-level earned income tax credits with rates of reported child maltreatment, 2004-2017

Kovski NL, Hill HD, Mooney SJ, et al. *Child Maltreatment*. 2021; Online ahead of print https://doi.org/10.1177/1077559520987302





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- Population
- Children in NCANDS
- Exposure/Intervention
- Generous Earned Income Tax Credit (State+Federal, Refundable)
- Comparison
- Less generous Earned Income Tax Credit
- Outcome
 - Maltreatment reports screened in for investigation



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Table 3. Estimates of the Association Between State EITC Presence and Child Maltreatment Rates (2004–2017)							
	Overall Reports	Neglect Reports	Physical Abuse Reports	Emotional Abuse Reports	Sexual Abuse Reports	Overall Substantiations	
All Children By Child Age	-193 (-640, 254)	-407 (-851, 37)*	-60 (-152, 32)	-75 (-203, 52)	-11 (-53, 32)	-28 (-142, 86)	
Ages 0-5 Ages 6-17	-299 (-871, 273) -152 (-542, 238)	-544 (-1111, 23)* -347 (-736, 42)*	-60 (-180, 61) -62 (-146, 22)	-98 (-257, 62) -67 (-182, 47)	-14 (-57, 29) -10 (-52, 32)	-49 (-205, 106) -20 (-119, 78)	
N	689	689	689	658	689	689	

Sources IN-CANDS Child File: 2004-2018 and National Bureau of Economic Research's TAXSM program (owww.nber.org/staxim)
Nove-All models include state and year fored effects, states-specific lines and quadratic time trends, and feel full set of state-level control variables for policies
economic characteristics, and demographics 95% confidence intervals in parentheses. Each coefficient indicates changes in the rate of outcome associated with the
introduction of a refundable state ETIC.

Rates per 100,000 children

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Table 2. Estimates of the Association between State EITC Generosity and Child Maltreatment Rates (2004–2017).							
	Overall Reports	Neglect Reports	Physical Abuse Reports	Emotional Abuse Reports	Sexual Abuse Reports	Overall Substantiations	
All Children By Child Age	-220 (- 4 55, 15)*	-24I (-449, -33)**	-21 (-58, 16)	-32 (-106, 42)	6 (-16, 28)	-55 (-120, 10)*	
Ages 0-5 Ages 6-17	-276 (-563, 9)* -194 (-403, 16)*	-324 (-582, -65)*** -201 (-387, -15)***	-22 (-69, 25) -19 (-50, 12)	-49 (-139, 41) -25 (-91, 42)	6 (-21, 33) 5 (-15, 25)	-89 (-179, 1)* -40 (-95, 15)	
N	689	689	689	658	689	689	

Sources: NCANDS Child File: 2004-2018 and National Boreau of Economic Research's TAXSMP program (www.nbc org/taxsim). Note: All models included state and year freed effects, state-specific linear and quadratic time trends, and their full set of state-level control variables for policies economic characteristics, and demographics: 95% confidence intervals in parentheses. Earls coefficient indicates changes in the rate of outcome associated with: 10 percentage point increase in a refluentible state ETEC, expersed as a percentage of the federal ETEC.

Generosity = Per 10% of the federal EITC





Association between Temporary Assistance for Needy Families (TANF) and child maltreatment among a cohort of fragile families

Spencer RA, Livingston MD, Komro KA, et al. Child Abuse & Neglect. 2021; 120: 105186 https://doi.org/10.1016/j.chiabu.2021.105186





- Population
 - Families enrolled in "Fragile Families and Child Well-being" study with mothers between 20 and 28 years

- Exposure/Intervention
 More generous TANF benefits
 Likely TANF eligible (estd. by mom's education)
 Comparison
 Less generous TANF benefits
 Likely TANF ineligible (estd. by mom's education)
- - Year-Year and State-State changes in Neglect, Physical Abuse, Emotional Abuse self-reported on Parent-Child Conflict Tactics Scale

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	Adjusted estimates of lagged models.	f policy effect on child i	naltreatment outcomes	by mother's education	ıal attainment (≤H	IS vs >HS) contempo	waneous and one year
	Policy	Physical abuse Beta (95% CI)		Psychological abuse Beta (95% CI)		Neglect Beta (95% CI)	
Increased \$100	1	Concurrent	Lagged	Concurrent	Lagged	Concurrent	Lagged
More Generous	Maximum each	-0.56 (-1.08, -0.04)**	-0.52 (-1.04, -0.005)*	-0.36 (-0.92, 0.20)	-0.37 (-0.92, 0.19)	0.06 (-0.07, 0.23)	0.08 (-0.07, 0.23)
	Limits No limit/benefit Lifetime/periodic	Ref 2.76 (0.18, 5.35)**	Ref 1.26 (-1.13, 3.66)	Ref 2.04 (-0.69, 4.77)	Ref 0.84 (-1.70, 3.38)	Ref -0.13 (-0.90, 0.64)	Ref -0.39 (-1.09, 0.32)
	Family caps None Any	Ref 1.72 (-0.34, 3.77)	Ref 1.71 (-0.36, 3.77)	Ref 1.21 (-0.97, 3.40)	Ref 1.17 (-1.03,	Ref -0.06 (-0.64,	Ref -0.03 (-0.61,
Increased 1 unit More Generous	TANF-to-Povesty Ratio	-0.06 (-0.11, -0.004)**	-0.05 (-0.11, -0.0001)*	-0.001 (-0.06, 0.06)	3.36) 0.01 (-0.05, 0.07)	0.52) 0.002 (-0.01, 0.02)	0.55) 0.003 (-0.01, 0.02)
	p < 0.1.						

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Training for mandated reporters of child abuse and neglect:

content analysis of state-sponsored curricula
Baker AJL, LeBlanc S, Adebayo T, Mathews B.
Child Abuse Negl. 2021; 113: 104932 https://doi.org/10.1016/j.chiabu.2021.104932



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- Cross Sectional Analysis: No PECO
- 44 State level curricula for mandated reporters
 - 27 Videos,
 - 36 embedded links for additional information
 - 33 self-assessment
 - 17 narrated text
 - 0 animations
 - 20 vignettes



- Most allowed fast forwarding through the lesson and taking the test multiple times to pass
- Identified domains
 - Reporting legalities
 - Definitions and recognizing abuse
 - Role of the reporter
 - Barriers to reporting





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- Authors set high standards for coverage (i.e. for 4 maltreatment types, definition, case examples, child findings, parent findings)
- Very few curricula adequately prepared reporters to ID abuse
- Failure to develop a positive rationale to report
- Failure to address impact on the reporter and barriers

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Building skills and resilience in child abuse pediatricians: a novel program to address secondary traumatic stress Smith J, Cho R, Martin C.

Smith J, Cho R, Martin C.

Child Abuse Negl. 2021; 117: 105082

https://doi.org/10.1016/j.chiabu.2021.105082



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- Descriptive study without outcomes: No PECO
 - Program delivered in fellowship targeting secondary traumatic stress
 - Monthly Mandatory 90' small group meetings
 - \bullet Facilitate trained in education and trauma
 - Supervisors EXCLUDED
 - $\bullet\,$ Physically away from the practice environment





- Low intensity focusing activity
 - Mindfulness or reflective writing
 - Coloring or similar with time to reflect
- Sharing impactful experiences
 Active listening, validation, support
- Mental health coaching

 - Creating safe environments
 Recognizing common impacts of STS

 - Processing and coping strategies
 Intersection of personal and professional





- Informal fellow reporting of impact
 Post session "refreshed"
 Decreased Sx of STS

 - Greater resilience
 Development of community
 Deployment of strategies
- Attending report of impact

 - Bonded peer group
 Better coping
 Positive changes in communication and support