

# When to suspect child maltreatment

**Clinical Guideline**

July 2009

Funded to produce guidelines for the NHS by NICE



# When to suspect child maltreatment

National Collaborating Centre for Women's and Children's Health

Commissioned by the National Institute for Health and Clinical Excellence

**Excluded studies**

July 2009



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This guideline has been fully funded by NICE. Healthcare professionals are expected to take it fully into account when exercising their clinical judgement. However, the guidance does not override the individual responsibility of healthcare professionals to make decisions appropriate to the circumstances of the individual patient.

Implementation of this guidance is the responsibility of local commissioners and/or providers

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# 4 Physical features

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## 4.1 Injuries

### 4.1.1–4.1.7 Bruises, bites, cuts and abrasions, thermal injuries, cold injuries, hair loss

Reference	Bibliographic information	Reason For Rejecting
1	Title: Intentional burn injury: An evidence-based, clinical and forensic review Authors: Greenbaum AR;Donne J;Wilson D;Dunn KW; Journal: Burns Year: 2004	This paper is a non-systematic review and not primary research.
2	Title: Can you age bruises accurately in children? A systematic review Authors: Maguire S; Journal: Archives of Disease in Childhood Year: 2005	This study is about how to diagnose child maltreatment. This is outside the scope of the guideline.
3	Title: Infantile subdural haematoma in Auckland, New Zealand: 1988-1998 Authors: Kelly P; Journal: New Zealand Medical Journal Year: 2004 Sep 10	This study is not about soft tissue injuries but is included in the review of head trauma.
4	Title: Comparative analysis of adult versus adolescent sexual assault: epidemiology and patterns of anogenital injury Authors: Jones JS; Journal: Academic Emergency Medicine Year: 2003	This study is not about soft tissue injuries.
5	Title: Gender and the relationship between traumatic childhood experiences and pain in adulthood Authors: Unternahrer I; Journal: Swiss Medical Weekly Year: 2006	This study is about consequences of child maltreatment. This is outside the scope of the guideline.
6	Title: Child sexual abuse: A model of chronic trauma Authors: Putnam FW; Journal: Psychiatry Year: 1993	This study is about risk factors for child maltreatment. This is outside the scope of the guideline.
7	Title: Unexplained subdural hematoma in young children: is it always child abuse? Authors: Fung EL;Sung RY;Nelson EA;Poon WS; Journal: Pediatrics International Year: 2002 Feb	*This study is not about soft tissue injuries but should be included in the review of eye trauma, head trauma.
8	Title: Foster care for child maltreatment: Impact on delinquent behavior Authors: Runyan DK; Journal: Pediatrics Year: 1985	This study is about the consequences of child maltreatment. This is outside the scope of the guideline.
9	Title: Adolescent assault injury: Risk and protective factors and locations of contact for intervention Authors: Cheng TL; Journal: Pediatrics Year: 2003	This study is about risk factors for child maltreatment. This is outside the scope of the guideline.
10	Title: Healing of hymenal injuries in prepubertal and adolescent girls: a descriptive study Authors: McCann J; Journal: Pediatrics Year: 2007 May	This study is not about soft tissue injuries but is included in the RCPCH review on sexual abuse.
11	Title: Urethral prolapse in girls: A series of 27 girls Authors: Venugopal SD; Journal: Pediatric Surgery International Year: 1995	This study is not about child maltreatment.
12	Title: Role of apnea in nonaccidental head injury Authors: Johnson DL; Journal: Pediatric Neurosurgery Year: 1995	*This study is not about soft tissue injuries but should be included in the review of head trauma.

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Reference	Bibliographic information	Reason For Rejecting
13	Title: Serial radiography in the infant shaken impact syndrome Authors: Dias MS; Journal: Pediatric Neurosurgery Year: 1998 Aug	*This study is not about soft tissue injuries but should be included in the review of head trauma.
14	Title: Current patterns of inflicted head injury in children Authors: Dashti SR;Decker DD; Journal: Pediatric Neurosurgery Year: 1999 Dec	*This study is not about soft tissue injuries but should be included in the review of head trauma.
15	Title: Frequency of suspected abuse/neglect in burn patients Authors: Rosenberg NM; Journal: Pediatric Emergency Care Year: 1989 Dec	This paper does not differentiate between scald and non-scald injuries.
16	Title: Effect of a screening profile on the diagnosis of nonaccidental burns in children Authors: Clark KD; Journal: Pediatric Emergency Care Year: 1997 Aug	This study is about how to diagnose child maltreatment. This is outside the scope of the guideline.
17	Title: Pediatric male rectal and genital trauma: accidental and nonaccidental injuries Authors: Kadish HA;Schunk JE; Journal: Pediatric Emergency Care Year: 1998 Apr	This study is not about soft tissue injuries but is included in the RCPCH review of sexual abuse.
18	Title: Characterization of Nonfatal Events and Injuries Resulting from Youth Violence in Patients Presenting to an Emergency Department Authors: Mollen CJ; Journal: Pediatric Emergency Care Year: 2003	This study is not about child maltreatment.
19	Title: Into hot water head first: Distribution of intentional and unintentional immersion burns Authors: Daria SS; Journal: Pediatric Emergency Care Year: 2004	This paper is described in a systematic review. <sup>904</sup>
20	Title: Community childhood injury surveillance: an emergency department-based model Authors: Zuckerbraun NS;Powell EC;Sheehan KM; Journal: Pediatric Emergency Care Year: 2004 Jun	This study is not about child maltreatment.
21	Title: Patient and injury characteristics in abusive abdominal injuries Authors: Trokel M; Journal: Pediatric Emergency Care Year: 2006	*This study is not about soft tissue injuries but should be included in the review of abdominal pain/head trauma.
22	Title: Shaken baby syndrome Authors: Kivlin JD;Simons KB;Lazoritz S;Ruttum MS; Journal: Ophthalmology Year: 2000 Jul	*This study is not about soft tissue injuries but should be included in the review of eye trauma.
23	Title: Retinal hemorrhages in type I osteogenesis imperfecta after minor trauma Authors: Ganesh A; Journal: Ophthalmology Year: 2004	This study is about how to diagnose child maltreatment. This is outside the scope of the guideline.
24	Title: Vitreous Hemorrhage in Children Authors: Spirn MJ; Journal: Ophthalmology Year: 2006	This study is not about child maltreatment.
25	Title: MRI in the assessment of the supportive soft tissues of the cervical spine in acute trauma in children Authors: Keiper MD;Zimmerman RA;Bilaniuk LT; Journal: Neuroradiology Year: 1998 Jun	This study is not about child maltreatment.
26	Title: Traumatic rupture of the diaphragm Authors: Williams RS; Journal: Medical Journal of Australia Year: 1982 Mar 6	This study is not about child maltreatment.
27	Title: Predictive value of skull radiography for intracranial injury in children with blunt head injury Authors: Lloyd DA; Journal: Lancet Year: 1997	This study is not about child maltreatment.
28	Title: Clinical features of ocular trauma in emergency department Authors: Oum BS;Lee JS;Han YS; Journal: Korean Journal of Ophthalmology Year: 2004 Jun	This study is not about child maltreatment.
29	Title: Traumatic injuries of the female external genitalia and their association with urological injuries Authors: Goldman HB; Journal: Journal of Urology Year: 1998	This study is not about child maltreatment.

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Reference	Bibliographic information	Reason For Rejecting
30	Title: The risk of reinjury in relation to time since first injury: A retrospective population-based study Authors: Worrell SS; Journal: Journal of Trauma - Injury, Infection and Critical Care Year: 2006	This study is not about child maltreatment.
31	Title: Specific patterns of inflicted burn injuries Authors: Lenoski EF; Journal: Journal of Trauma-Injury Infection and Critical Care Year: 1977 Nov	This paper is a case series and comprises less than 50 cases.
32	Title: Hemodynamic responses to penetrating spinal cord injuries Authors: Zipnick RI;Scalea TM;Trooskin SZ;Sclafani SJ; Journal: Journal of Trauma-Injury Infection and Critical Care Year: 1993 Oct	This study is not about child maltreatment.
33	Title: Changing profiles in spinal cord injuries and risk factors influencing recovery after penetrating injuries Authors: Velmahos GC;Degiannis E; Journal: Journal of Trauma-Injury Infection and Critical Care Year: 1995 Mar	This study is not about child maltreatment.
34	Title: Cutaneous burns caused by sulfuric acid drain cleaner Authors: Bond SJ;Schnier GC;Sundine MJ;Maniscalco SP;Groff DB; Journal: Journal of Trauma-Injury Infection and Critical Care Year: 1998 Mar	This study is not about child maltreatment.
35	Title: Injuries of the gastrointestinal tract from blunt trauma in children: a 12-year experience at a designated pediatric trauma center Authors: Canty TG;Canty TG; Journal: Journal of Trauma-Injury Infection and Critical Care Year: 1999 Feb	*This study is not about soft tissue injuries but should be included in the review of abdominal pain.
36	Title: Child abuse by burning: a review of the literature and an algorithm for medical investigations Authors: Peck MD; Journal: Journal of Trauma-Injury Infection and Critical Care Year: 2002 Nov	This paper is a non systematic literature review.
37	Title: Terror-inflicted thermal injury: A retrospective analysis of burns in the Israeli-Palestinian conflict between the years 1997 and 2003 Authors: Haik J; Journal: Journal of Trauma-Injury Infection and Critical Care Year: 2006 Dec	This study is not about child maltreatment.
38	Title: Characteristic illness behaviour in assault patients: DATES syndrome Authors: Shepherd JP; Journal: Journal of the Royal Society of Medicine Year: 1995	This study is not about child maltreatment.
39	Title: Clinical characteristics of women with a history of childhood abuse: unhealed wounds Authors: McCauley J; Journal: Journal of the American Medical Association Year: 1997	This study is not about child maltreatment.
40	Title: Ten-year research review of physical injuries Authors: Stoddard FJ; Journal: Journal of the American Academy of Child and Adolescent Psychiatry Year: 2001 Oct	This study is not about child maltreatment.
41	Title: Fifteen years' experience with penetrating trauma to the head and neck in children Authors: Cooper A; Journal: Journal of Pediatric Surgery Year: 1987 Jan	This study is not about child maltreatment.
42	Title: Respiratory distress in traumatized and burned children Authors: Scannell G; Journal: Journal of Pediatric Surgery Year: 1995 Apr	This study is not about child maltreatment.
43	Title: Dense vitreous hemorrhages predict poor visual and neurological prognosis in infants with shaken baby syndrome Authors: Matthews GP; Journal: Journal of Pediatric Ophthalmology and Strabismus Year: 1996 Jul	This study is about treating children who have suffered maltreatment. This is outside the scope of the guideline.

Reference	Bibliographic information	Reason For Rejecting
44	Title: Adolescent sexual assault: documentation of acute injuries using photo-colposcopy Authors: Adams JA; Journal: Journal of Pediatric and Adolescent Gynecology Year: 2001 Nov	This study is not about soft tissue injuries but is included in the RCPCH review on sexual abuse.
45	Title: Genital and perineal burns in children: 10 years of experience at a major burn center Authors: Angel C; Journal: Journal of Pediatric Surgery Year: 2002 Jan	This study is about treatment of genital and perineal burns and not about child maltreatment.
46	Title: Duodenal injuries in children: beware of child abuse Authors: Gaines BA;Shultz BS; Journal: Journal of Pediatric Surgery Year: 2004 Apr	*This study is not about soft tissue injuries but should be included in the review of abdominal pain.
47	Title: Spinal injuries in children Authors: Cirak B; Journal: Journal of Pediatric Surgery Year: 2004 Apr	This study is not about child maltreatment.
48	Title: Non-accidental carbon monoxide poisoning from burning charcoal in attempted combined homicide-suicide Authors: Lee AC; Journal: Journal of Paediatrics and Child Health Year: 2002 Oct	*This study is not about soft tissue injuries but should be included in the review of poisoning.
49	Title: Penetrating injuries in children: is there a message? Authors: Holland AJ; Journal: Journal of Paediatrics and Child Health Year: 2002 Oct	This study is not about child maltreatment.
50	Title: Incidence of bite marks in a selected juvenile population: a preliminary report Authors: Rawson RD; Journal: Journal of Forensic Sciences Year: 1984 Jan	This study is about frequency of bite marks and not about whether bite marks are indicative of maltreatment.
51	Title: Pediatric homicides related to burn injury: a retrospective review at the medical university of South Carolina Authors: Zaloga WF; Journal: Journal of Forensic Sciences Year: 2006 Mar	This study is not about child maltreatment.
52	Title: Severity of injuries among sexual assault victims Authors: Alempijevic D; Journal: Journal of Forensic and Legal Medicine Year: 2007 Jul	This study is not about child maltreatment.
53	Title: Impalement injuries of the oral cavity in children Authors: Takenoshita Y; Journal: Journal of Dentistry for Children Year: 1996 May	This study is not about child maltreatment.
54	Title: Adolescent complainants of sexual assault; injury patterns in virgin and non-virgin groups Authors: White C; Journal: Journal of Clinical Forensic Medicine Year: 2006	This study is not about child maltreatment.
55	Title: Multidisciplinary approach to working with burn victims of child abuse Authors: Weimer CL;Goldfarb IW; Journal: Journal of Burn Care and Rehabilitation Year: 1988 Jan	This study is about treating children who have suffered maltreatment. This is outside the scope of the guideline.
56	Title: Risk management in children with burn injuries Authors: Carrigan L; Journal: Journal of Burn Care and Rehabilitation Year: 1988 Jan	This study is not about child maltreatment.
57	Title: Profile of an abused burned child Authors: Bennett B; Journal: Journal of Burn Care and Rehabilitation Year: 1998 Jan	This study is about risk factors for child maltreatment. This is outside the scope of the guideline.
58	Title: Return to jeopardy: the fate of pediatric burn patients who are victims of abuse and neglect Authors: Hultman CS; Journal: Journal of Burn Care and Rehabilitation Year: 1998 Jul	This study is about consequences of child maltreatment. This is outside the scope of the guideline.
59	Title: Assault by burning—a retrospective review with focus on legal outcomes Authors: Dorn TW;Still JM;Law E; Journal: Journal of Burn Care and Rehabilitation Year: 2001 Sep	This study is not about child maltreatment.

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Reference	Bibliographic information	Reason For Rejecting
60	Title: Outcomes related to burn-related child abuse: a case series Authors: Ruth GD;Smith S; Journal: Journal of Burn Care and Rehabilitation Year: 2003 Sep	This study is about consequences of child maltreatment. This is outside the scope of the guideline.
61	Title: Battered children, medical forensic aspects: A 20-year review from eastern Hungary (1963-1983) Authors: Buris LF; Journal: International Journal of Offender Therapy and Comparative Criminology Year: 2000	This paper is a review.
62	Title: Corrosive esophagitis in children: A 30-year review Authors: De Jong AL; Journal: International Journal of Pediatric Otorhinolaryngology Year: 2001	This study is not about child maltreatment.
63	Title: Injuries to the head, face, mouth and neck in physically abused children in a community setting Authors: Cairns AM;Mok JY;Welbury RR; Journal: International Journal of Paediatric Dentistry Year: 2005 Sep	This study is not about whether a clinical feature is indicative of child maltreatment.
64	Title: Child death reviews: a gold mine for injury prevention and control Authors: Onwuachi-Saunders C; Journal: Injury Prevention Year: 1999	This study is not about child maltreatment.
65	Title: Epidemiology of facial trauma in a sample of patients aged 1-18 years Authors: Shaikh ZS; Journal: Injury Year: 2002 Oct	This study is not about child maltreatment.
66	Title: Death in the bathtub involving children Authors: Schmidt P; Journal: Forensic Science International Year: 1995 Mar 31	*This study is not about soft tissue injuries but should be included in the review of drowning.
67	Title: Homicidal and suicidal ligature strangulation - A comparison of the post-mortem findings Authors: Maxeiner H; Journal: Forensic Science International Year: 2003	This study is not about child maltreatment.
68	Title: Forensic assessment of survived strangulation Authors: Plattner T; Journal: Forensic Science International Year: 2005 Oct 29	*This study is not about soft tissue injuries but should be included in the review of strangulation.
69	Title: Genitoanal injury in adult female victims of sexual assault Authors: Hilden M; Journal: Forensic Science International Year: 2005 Nov 25	This is an adult study.
70	Title: Comparison of wound patterns in homicide by sharp and blunt force Authors: Ambade VN; Journal: Forensic Science International Year: 2006 Jan 27	This study is not about child maltreatment.
71	Title: Chest trauma in children Authors: Ceran S;Sunam GS;Aribas OK; Journal: European Journal of Cardio-Thoracic Surgery Year: 2002 Jan	This study is not about child maltreatment.
72	Title: Epidemiology of injuries: Current trends and future challenges Authors: Mackenzie EJ; Journal: Epidemiologic Reviews Year: 2000	This study is not about child maltreatment.
73	Title: Burns and scalds in pre-school children attending accident and emergency: accident or abuse? Authors: Bengler JR; Journal: Emergency Medicine Journal Year: 2001	*This study is not about soft tissue injuries but might be of general interest.
74	Title: Resident documentation of diagnostic impression in sexual abuse evaluations Authors: Parra JM;Huston RL;Foulds DM; Journal: Clinical Pediatrics Year: 1997 Dec	This study is not about soft tissue injuries.
75	Title: Battery acid burns of the upper gastro-intestinal tract Authors: Wormald PJ; Journal: Clinical Otolaryngology and Allied Sciences Year: 1993 Apr	This study is not about child maltreatment.
76	Title: Non-accidental subdural haemorrhage in Hong Kong: incidence, clinical features, management and outcome Authors: Sun DT;Zhu XL;Poon WS; Journal: Childs Nervous System Year: 2006 Jun	*This study is not about soft tissue injuries but should be included in the review of head trauma.

Reference	Bibliographic information	Reason For Rejecting
77	Title: Perianal findings in prepubertal children selected for nonabuse: a descriptive study Authors: McCann J; Journal: Child Abuse and Neglect Year: 1989	This study is not about soft tissue injuries but should be included in the review of sexual abuse.
78	Title: Physicians' recognition of and response to child abuse: Northern Ireland and the U.S.A Authors: Benson DE; Journal: Child Abuse and Neglect Year: 1991	*This study is not about soft tissue injuries but of general interest.
79	Title: Children experiencing violence. II: Prevalence and determinants of corporal punishment in schools Authors: Youssef RM;Attia MS;Kamel MI; Journal: Child Abuse and Neglect Year: 1998 Oct	This study is not about child maltreatment.
80	Title: Referrals to a hospital-based child abuse committee: a comparison of the 1960s and 1990s Authors: Thomas DE;Leventhal JM; Journal: Child Abuse and Neglect Year: 2001 Feb	*This study is not about soft tissue injuries but is of general interest.
81	Title: Shaken baby syndrome in Canada: clinical characteristics and outcomes of hospital cases Authors: King WJ; Journal: Canadian Medical Association Journal Year: 2003 Jan 21	This study about shaken baby syndrom and not about a clinical feature.
82	Title: Child abuse by thermal injury—a retrospective survey Burns, Including Thermal Injury Authors: Kumar P; Journal: Burns Year: 1984 Jun	This paper does not differentiate between scald and non-scald injuries.
83	Title: Profile of the paediatric burn patient in a Canadian burn centre Authors: Ryan CA;Shankowsky HA;Tredget EE; Journal: Burns Year: 1992 Aug	This study is not about child maltreatment.
84	Title: Assault inflicted by hot water Authors: Duminy FJ; Journal: Burns Year: 1993 Oct	This study is not about child maltreatment.
85	Title: An audit of non-accidental injury in burned children Authors: Hobson MI; Journal: Burns Year: 1994 Oct	This paper is non-research.
86	Title: Hot water burns in Cape Town Authors: Hudson DA; Journal: Burns Year: 1995 Feb	This study is not about child maltreatment.
87	Title: Eight years experience of a regional burns unit in Saudi Arabia: clinical and epidemiological aspects Authors: al-Shlash S;Warnasuriya ND; Journal: Burns Year: 1996 Aug	This study is not about child maltreatment.
88	Title: Non-accidental burns in children Authors: Andronicus M; Journal: Burns Year: 1998 Sep	The cases are not confirmed.
89	Title: Body habitus as a predictor of burn risk in children: do fat boys still get burned? Authors: Barillo DJ;Burge TS;Harrington DT;Coffey EC;Shirani KZ;Goodwin CW; Journal: Burns Year: 1998 Dec	This study is about risk factors for child maltreatment. This is outside the scope of the guideline.
90	Title: Epidemiology of domestic chemical burns in Saudi Arabia Authors: Pitkanen J; Journal: Burns Year: 2001 Jun	This study is not about child maltreatment.
91	Title: Assault by burning—a reappraisal Authors: Ho WS;Ying SY;Chan HH; Journal: Burns Year: 2001 Aug	This study is not about child maltreatment.
92	Title: Chemical assaults in Hong Kong: a 10-year review Authors: Young RC;Ho WS;Ying SY; Journal: Burns Year: 2002 Nov	This study is not about child maltreatment.

## When to suspect child maltreatment

Reference	Bibliographic information	Reason For Rejecting
93	Title: Non-accidental burns in children—are we neglecting neglect? Authors: Chester DL;Jose RM;Aldiyami E; Journal: Burns Year: 2006 Mar	Included in 94 and covered in neglect.
95	Title: Hot oil burns—a study of predisposing factors, clinical course and prevention strategies Authors: Hankins CL;Tang XQ; Journal: Burns Year: 2006 Feb	This study is not about child maltreatment.
96	Title: Burns inflicted by self or by others—an 11 year snapshot Authors: Malic CC;Karoo RO; Journal: Burns Year: 2007 Feb	This study is not about child maltreatment.
97	Title: Assault and facial soft tissue injuries Authors: Shepherd JP;Al-Kotany MY; Journal: British Journal of Plastic Surgery Year: 1987 Nov	This study is not about child maltreatment.
98	Title: Bruising, coagulation disorder, and physical child abuse Authors: Sibert J; Journal: Blood Coagulation and Fibrinolysis Year: 2004 May	This study was already published in another paper. <sup>905</sup> This other paper was included in a systematic review. <sup>906</sup>
99	Title: Non-accidental injury and the haematologist: The causes and investigation of easy bruising Authors: Liesner R; Journal: Blood Coagulation and Fibrinolysis Year: 2004	This study is about how to diagnose child maltreatment. This is outside the scope of the guideline.
100	Title: Contusional eye injuries: retinal and choroidal lesions Authors: Archer DB; Journal: Australian Journal of Ophthalmology Year: 1983 Nov	*This study is not about soft tissue injuries but should be included in the review of eye trauma.
101	Title: Blunt traumatic small bowel rupture: are children different? Authors: Hamill J; Journal: Australian and New Zealand Journal of Surgery Year: 2000 Nov	This study is not about child maltreatment.
102	Title: Retrospective assessment of childhood sexual and physical abuse: a comparison of scaled and behaviorally specific approaches Authors: DiLillo D; Journal: Assessment Year: 2006 Sep	This study is about how to diagnose child maltreatment. This is outside the scope of the guideline.
103	Title: Adult assault as a mechanism of burn injury Authors: Purdue GF; Journal: Archives of Surgery Year: 1990 Feb	This study is not about child maltreatment.
104	Title: Inflicted submersion in childhood Authors: Gillenwater JM; Journal: Archives of Pediatrics and Adolescent Medicine Year: 1996	*This study is not about soft tissue injuries but should be included in the review of near drowning.
105	Title: Intentional injury surveillance in a primary care pediatric setting Authors: Sege R; Journal: Archives of Pediatrics and Adolescent Medicine Year: 1996 Mar	This study is not about child maltreatment.
106	Title: Children with anogenital symptoms and signs referred for sexual abuse evaluations Authors: Kellogg ND; Journal: Archives of Pediatrics and Adolescent Medicine Year: 1998	*This study is not about soft tissue injuries but should be included in the review of sexual abuse.
107	Title: Child abuse and unintentional injuries: a 10-year retrospective Authors: DiScala C; Journal: Archives of Pediatrics and Adolescent Medicine Year: 2000 Jan	This study is not about soft tissue injuries.
108	Title: Optic nerve damage in shaken baby syndrome: detection by beta-amyloid precursor protein immunohistochemistry Authors: Gleckman AM;Evans RJ;Bell MD;Smith TW; Journal: Archives of Pathology and Laboratory Medicine Year: 2000 Feb	This study is about how to diagnose child maltreatment. This is outside the scope of the guideline.
109	Title: Penetrating eye injuries related to assault: The National Eye Trauma System Registry Authors: Dannenberg AL; Journal: Archives of Ophthalmology Year: 1992	*This study is not about soft tissue injuries but should be included in the review of eye trauma.
110	Title: When are burns not accidental? Authors: Hobbs CJ; Journal: Archives of Disease in Childhood Year: 1986 Apr	This paper is described in a systematic review. <sup>907</sup>

Reference	Bibliographic information	Reason For Rejecting
111	Title: Patterns of scald injuries Authors: Yeoh C; Journal: Archives of Disease in Childhood Year: 1994 Aug	This paper is described in a systematic review. <sup>907</sup>
112	Title: Estimation of the age of bruising Authors: Stephenson T; Journal: Archives of Disease in Childhood Year: 1996 Jan	This study is not about child maltreatment.
113	Title: A scoring system for bruise patterns: a tool for identifying abuse Authors: Dunstan FD;Guildea ZE; Journal: Archives of Disease in Childhood Year: 2002 May	This study is already included in a systematic review. <sup>906</sup>
114	Title: Apnoea and brain swelling in non-accidental head injury Authors: Kemp AM; Journal: Archives of Disease in Childhood Year: 2003 Jun	*This study is not about soft tissue injuries but should be included in the review of head trauma.
115	Title: Penetrating injuries to the cervical oesophagus: is routine exploration mandatory? Authors: Madiba TE; Journal: Annals of the Royal College of Surgeons of England Year: 2003 May	This study is not about child maltreatment.
116	Title: Chest trauma in children: A local experience Authors: Al-Saigh A; Journal: Annals of Saudi Medicine Year: 1999	This study is not about child maltreatment.
117	Title: Fatal childhood injury patterns in an urban setting Authors: Weesner CL;Hargarten SW; Journal: Annals of Emergency Medicine Year: 1994 Feb	This study is not about child maltreatment.
118	Title: Abdominal vascular trauma: a review of 106 injuries Authors: Jackson MR;Olson DW;Beckett WC;Olsen SB;Robertson FM; Journal: American Surgeon Year: 1992 Oct	This study is not about child maltreatment.
119	Title: Noniatrogenic pediatric vascular trauma: a ten-year experience at a level I trauma center Authors: de VC;Mercado PD; Journal: American Surgeon Year: 1997 Sep	This study is not about child maltreatment.
120	Title: Dog bite injuries in children: a preliminary survey Authors: Gandhi RR;Liebman MA;Stafford BL;Stafford PW; Journal: American Surgeon Year: 1999 Sep	This study is not about child maltreatment.
121	Title: Pattern of burns in child abuse Authors: Ojo P; Journal: American Surgeon Year: 2007 Mar	This paper does not report data separately for scalds and other burns.
122	Title: Limitations of emergency room evaluations of sexually abused children Authors: Orr DP; Journal: American Journal of Diseases of Children Year: 1978 Sep	This study is about how to diagnose child maltreatment. This is outside the scope of the guideline.
123	Title: Acute genital injury in the prepubertal girl Authors: Pokorny SF;Pokorny WJ; Journal: American Journal of Obstetrics and Gynecology Year: 1992 May	*This study is not about soft tissue injuries but should be included in the review of sexual abuse.
124	Title: A decade of pediatric homicide: a retrospective study at the Medical University of South Carolina Authors: Collins KA; Journal: American Journal of Forensic Medicine and Pathology Year: 1999 Jun	*This study is not about soft tissue injuries but might be of general interest (main causes of death).
125	Title: Death by overlaying and wedging: a 15-year retrospective study Authors: Collins KA; Journal: American Journal of Forensic Medicine and Pathology Year: 2001 Jun	*This study is not about soft tissue injuries but should be included in the review of strangulation.
126	Title: Correlation between retinal abnormalities and intracranial abnormalities in the shaken baby syndrome Authors: Morad Y; Journal: American Journal of Ophthalmology Year: 2002 Sep	*This study is not about soft tissue injuries but should be included in the review of head trauma.

## When to suspect child maltreatment

Reference	Bibliographic information	Reason For Rejecting
127	Title: A comparison of respiratory symptoms and inflammation in sudden infant death syndrome and in accidental or inflicted infant death Authors: Krous HF; Journal: American Journal of Forensic Medicine and Pathology Year: 2003	*This study is not about soft tissue injuries but should be included in the review of strangulation.
128	Title: Genital trauma associated with forced digital penetration Authors: Rossman L; Journal: American Journal of Emergency Medicine Year: 2004 Mar	*This study is not about soft tissue injuries but should be included in the review of sexual abuse.
129	Title: Caustic burns of rectum and colon in emergencies Authors: Diarra B; Journal: American Journal of Surgery Year: 2004 Jun	This study is not about child maltreatment.
130	Title: A 25-year retrospective review of deaths due to pediatric neglect Authors: Knight LD; Journal: American Journal of Forensic Medicine and Pathology Year: 2005 Sep	This study is a case series with only 16 cases.
131	Title: Assessing bite marks in children: working with a forensic dentist Authors: Whittaker DK; Journal: Ambulatory Child Health Year: 1997	This study is about how to diagnose child maltreatment. This is outside the scope of the guideline.dd
132	Title: Paediatric trauma: when it is not an accident Authors: Spencer D; Journal: Accident and Emergency Nursing Year: 2002 Jul	This study is a non systematic review.
133	Title: Children's non-accidental injuries at an Accident and Emergency department: does the age of the child and the type of injury matter? Authors: Bull L; Journal: Accident and Emergency Nursing Year: 2006	This study is not about soft tissue injuries.
134	Title: Child abuse by burning - An index of suspicion Authors: Purdue GF;Hunt JL;Prescott PR; Journal: Journal of Trauma Year: 1988	This paper is described in a systematic review. <sup>907</sup>
135	Title: Tap water scald burns in children Authors: Feldman KW;Schaller RT;Feldman JA;McMillon M; Journal: Pediatrics Year: 1978 Jul	This paper is described in a systematic review. <sup>907</sup>
136	Title: How useful is the presence of petechiae in distinguishing non-accidental from accidental injury? Authors: Nayak K;Spencer N;Shenoy M;Rubithon J;Coad N;Logan S; Journal: Child Abuse and Neglect Year: 2006 May	This paper does not help answering the review question.
21	Title: Patient and injury characteristics in abusive abdominal injuries Authors: Trokel M; Journal: Pediatric Emergency Care Year: 2006	This study does not discuss confirmed cases of child abuse.
35	Title: Injuries of the gastrointestinal tract from blunt trauma in children: a 12-year experience at a designated pediatric trauma center Authors: Canty TG;Canty TG; Journal: Journal of Trauma-Injury Infection and Critical Care Year: 1999 Feb	This study is not about child maltreatment.
137	Authors: Thombs BD;. Title: Patient and injury characteristics, mortality risk, and length of stay related to child abuse by burning: evidence from a national sample of 15,802 pediatric admissions. Journal Name: Annals of Surgery. Year: 2008 Mar	No distinction between scalds and non-scald injuries. No confirmation of abuse.
380	Authors: Mitchell E;Krous HF;Donald T;Byard RW;. Title: Changing trends in the diagnosis of sudden infant death. Journal Name: American Journal of Forensic Medicine and Pathology. Year: 2000 Dec	There was no discussion of confirmed abuse cases in this paper.
381	Authors: Morley CJ;. Title: Practical concerns about the diagnosis of Munchausen syndrome by proxy. Journal Name: Archives of Disease in Childhood. Year: 1995 Jun	There are no data presented in this paper.

Reference	Bibliographic information	Reason For Rejecting
276	Authors: McClure RJ;Davis PM;Meadow SR;Sibert JR;. Title: Epidemiology of Munchausen syndrome by proxy, non-accidental poisoning, and non-accidental suffocation. Journal Name: Archives of Disease in Childhood. Year: 1996 Jul	This paper discusses fewer than 50 cases of suffocation.
382	Authors: Meadow R;. Title: ABC of child abuse. Suffocation. Journal Name: British Medical Journal. Year: 1989 Jun 10	There are no data in this study.
136	Authors: Nayak K;Spencer N;Shenoy M;Rubithon J;Coad N;Logan S;. Title: How useful is the presence of petechiae in distinguishing non-accidental from accidental injury?. Journal Name: Child Abuse and Neglect. Year: 2006 May	This paper does not contain any data relevant to strangulation or suffocation.
383	Authors: Haddad GG;. Title: The multifaceted sudden infant death syndrome: Controversies and hope. Journal Name: Current Opinion in Pediatrics. Year: 1992	This is a review paper.
384	Authors: Schreier H;. Title: Munchausen by proxy.. Journal Name: Current Problems in Pediatric and Adolescent Health Care. Year: 2004 Mar	This paper is not about strangulation/asphyxia.
157	Authors: Matsumura F;Ito Y;. Title: Petechial hemorrhage of the conjunctiva and histological findings of the lung and pancreas in infantile asphyxia—evaluation of 85 cases. Journal Name: Kurume Medical Journal. Year: 1996	This study focuses on post mortem findings.
385	Authors: Krous HF;Wixom C;Chadwick AE;Haas EA;Silva PD;Stanley C;. Title: Pulmonary intra-alveolar siderophages in SS and suffocation: a San Diego SS/SUDC Research Project report. Journal Name: Pediatric and Developmental Pathology. Year: 2006 Mar	This study focuses on post mortem findings.
386	Authors: Feldman KW;Simms RJ;. Title: Strangulation in childhood: epidemiology and clinical course. Journal Name: Pediatrics. Year: 1980 Jun	This study was about mode of strangulation and did not discuss confirmed maltreatment.
387	Authors: Malloy MH;MacDorman M;. Title: Changes in the classification of sudden unexpected infant deaths: United States, 1992-2001. Journal Name: Pediatrics. Year: 2005 May	This study does not discuss child maltreatment.
388	Authors: Francisco JT;. Title: Smothering in infancy: its relationship to the 'crib death syndrome'. Journal Name: Southern Medical Journal. Year: 1970 Oct	This paper is about mortem aspects of asphyxiation.

### 4.1.8 Fractures

Reference	Bibliographic information	Reason for rejecting study
138	Authors: Starling SP;Sirotnak AP;Heisler KW;Barnes-Eley ML;. Title: Inflicted skeletal trauma: The relationship of perpetrators to their victims.. Journal Name: Child Abuse and Neglect. Year: 2007 Sep	Not about distinguishing abusive from non-abusive fractures.
139	Authors: Hansoti B;Beattie TF;. Title: Limb fractures and nonaccidental injury in children less than 24 months of age. Journal Name: European Journal of Emergency Medicine. Year: 2008 Apr	Only 5 child protection cases. Reason for referral was unknown cause of injury. No confirmed abuse cases.

### 4.1.9 Intracranial injuries

No search conducted

## 4.1.10 Eye trauma

Reference	Bibliographic information	Reason for rejecting study
140	Authors: Chong NV;. Title: Perimacular retinal folds and nonaccidental injury--yes, no, or maybe?. Journal Name: Eye. Year: 2007 Jan	This is an editorial
141	Authors: Gilliland MG;Luckenbach MW;Chenier TC;. Title: Systemic and ocular findings in 169 prospectively studied child deaths: retinal hemorrhages usually mean child abuse. Journal Name: Forensic Science International. Year: 1994 Sep 16	This is a study on autopsy findings
142	Authors: Betz P;Puschel K;Miltner E;Lignitz E;Eisenmenger W;. Title: Morphometrical analysis of retinal hemorrhages in the shaken baby syndrome. Journal Name: Forensic Science International. Year: 1996 Mar 5	This is a study on autopsy findings
143	Authors: Geddes JF;. Title: Inflicted head injury in infants. Journal Name: Forensic Science International. Year: 2004	There is no primary data in this study.
144	Authors: Olson RJ;. Title: Recognizing signs of child abuse for eye care professionals. Journal Name: Insight: The Journal of the American Society of Ophthalmic Registered Nurses. Year: 2006	This is an educational article.
145	Authors: Tsao K;Kazlas M;Weiter JJ;. Title: Ocular injuries in shaken baby syndrome. Journal Name: International Ophthalmology Clinics. Year: 2002	This is a review paper.
146	Authors: Raszynski A;. Title: Shaken baby syndrome: Theoretical and evidential controversies. Journal Name: International Pediatrics. Year: 2005	This is a commentary.
147	Authors: Clemetson CAB;. Title: Is it 'shaken baby,' or Barlow's disease variant?. Journal Name: Journal of American Physicians and Surgeons. Year: 2004	This is not primary research.
148	Authors: Tufail A;Pearson RV;. Title: An ophthalmological view of retinal haemorrhages in shaken babies. Journal Name: Journal of Clinical Forensic Medicine. Year: 1999	This is a review paper.
149	Authors: Riffenburgh RS;Sathyavagiswaran L;. Title: The eyes of child abuse victims: autopsy findings. Journal Name: Journal of Forensic Sciences. Year: 1991 May	This paper discusses autopsy findings.
150	Authors: Gilliland MG;Folberg R;. Title: Shaken babies--some have no impact injuries. Journal Name: Journal of Forensic Sciences. Year: 1996 Jan	This is a post-mortem study.
151	Authors: Hekmatpanah J;Pannaraj P;Callans L;. Title: Head injury in abused children (review of 190 cases over 30 years). Journal Name: Journal of Neuroscience Nursing. Year: 2002	This study only gives percentage of abused children displaying retinal haemorrhage or pupillary change.
152	Authors: Ghahreman A;. Title: Nonaccidental head injuries in children: a Sydney experience. Journal Name: Journal of Neurosurgery. Year: 2005 Sep	This is about head trauma.
153	Authors: Kanter RK;. Title: Retinal hemorrhage after cardiopulmonary resuscitation or child abuse. Journal Name: Journal of Pediatrics. Year: 1986 Mar	This is about differential diagnosis.
154	Authors: Goldman M;Dagan Z;Yair M;Elbaz U;Lahat E;Yair M;. Title: Severe cough and retinal hemorrhage in infants and young children. Journal Name: Journal of Pediatrics. Year: 2006 Jun	There are no abuse cases in this study.
155	Authors: Smith SK;. Title: Child abuse and neglect: a diagnostic guide for the optometrist. Journal Name: Journal of the American Optometric Association. Year: 1988 Oct	This paper contains no primary research.

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Reference	Bibliographic information	Reason for rejecting study
156	Authors: David TJ;. Title: Shaken baby (shaken impact) syndrome: Non-accidental head injury in infancy. Journal Name: Journal of the Royal Society of Medicine. Year: 1999	This is a review paper
157	Authors: Matsumura F;Ito Y;. Title: Petechial hemorrhage of the conjunctiva and histological findings of the lung and pancreas in infantile asphyxia—evaluation of 85 cases. Journal Name: Kurume Medical Journal. Year: 1996	This is a post-mortem study.
158	Authors: Talbert DG;. Title: Paroxysmal cough injury, vascular rupture and 'shaken baby syndrome'. Journal Name: Medical Hypotheses. Year: 2005	This is not a clinical study.
159	Authors: Geddes JF;Tasker RC;Hackshaw AK;Nickols CD;Adams GG;Whitwell HL;Scheimberg I;. Title: Dural haemorrhage in non-traumatic infant deaths: does it explain the bleeding in 'shaken baby syndrome?'. Journal Name: Neuropathology and Applied Neurobiology. Year: 2003 Feb	This is a post-mortem study.
160	Authors: Duhaime AC;Christian CW;Rorke LB;Zimmerman RA;. Title: Nonaccidental head injury in infants - The 'shaken-baby syndrome'. Journal Name: New England Journal of Medicine. Year: 1998	This is a review paper with no discussion of methodology.
161	Authors: Kessler DB;Siegel-Stein F;. Title: Retinal hemorrhage, meningitis, and child abuse. Journal Name: New York State Journal of Medicine. Year: 1984 Feb	This is commentary.
3	Authors: Kelly P;. Title: Infantile subdural haematoma in Auckland, New Zealand: 1988-1998. Journal Name: New Zealand Medical Journal. Year: 2004 Sep 10	Comparative study but not all children were examined for retinal haemorrhage (only 5/23 accidental injury children).
162	Authors: Boyle EL;. Title: Some orbital tissue injuries more common in shaken baby syndrome. Journal Name: Ocular Surgery News. Year: 2006	This is commentary.
163	Authors: Riffenburgh RS;. Title: Ocular hemorrhage in autopsies of child abuse victims. Journal Name: Ophthalmic Practice. Year: 2001	This is a post-mortem study.
164	Authors: Riffenburgh RS;Sathyavagiswaran L;. Title: Ocular findings at autopsy of child abuse victims. Journal Name: Ophthalmology. Year: 1991 Oct	This is a report of autopsy findings.
165	Authors: Pierre-Kahn V;Roche O;Dureau P;Uteza Y;Renier D;Pierre-Kahn A;Dufier JL;. Title: Ophthalmologic findings in suspected child abuse victims with subdural hematomas. Journal Name: Ophthalmology. Year: 2003 Sep	This is covered in the head trauma review.
166	Authors: Conway J;. Title: Nonaccidental head injury in infants: 'The shaken baby syndrome revisited'. Journal Name: Pediatric Annals. Year: 1998	This is not primary research
167	Authors: Geddes JF;Tasker RC;Adams GGW;Whitwell HL;. Title: Violence is not necessary to produce subdural and retinal haemorrhage: A reply to Punt et al.. Journal Name: Pediatric Rehabilitation. Year: 2005 Oct	This is commentary.
168	Authors: Punt J;Bonshek RE;Jaspan T;McConachie NS;Punt N;Ratcliffe JM;. Title: The 'unified hypothesis' of Geddes et al. is not supported by the data.. Journal Name: Pediatric Rehabilitation. Year: 2004 Jul	This is commentary.
169	Authors: Geddes JF;Tasker RC;Adams GG;Whitwell HL;. Title: Violence is not necessary to produce subdural and retinal haemorrhage: a reply to Punt et al. Journal Name: Pediatric Rehabilitation. Year: 2004 Oct	This is commentary.
170	Authors: Duhaime AC;Alario AJ;Lewander WJ;Schut L;Sutton LN;Seidl TS;Nudelman S;Budenz D;Hertle R;Tsiaras W;. Title: Head injury in very young children: mechanisms, injury types, and ophthalmologic findings in 100 hospitalized patients younger than 2 years of age. Journal Name: Pediatrics. Year: 1992 Aug	This study does not discuss eye trauma.

Reference	Bibliographic information	Reason for rejecting study
171	Authors: Rubin DM;Christian CW;Bilaniuk LT;Zazyczny KA;Durbin DR;. Title: Occult head injury in high-risk abused children. Journal Name: Pediatrics. Year: 2003 Jun	This study is not about eye trauma.
172	Authors: Keenan HT;Runyan DK;Marshall SW;Nocera MA;Merten DF;. Title: A population-based comparison of clinical and outcome characteristics of young children with serious inflicted and noninflicted traumatic brain injury. Journal Name: Pediatrics. Year: 2004 Sep	This study is included in the head trauma review.
173	Authors: Cameron JM;. Title: The battered baby syndrome. Journal Name: Practitioner. Year: 1972 Sep	This is a descriptive paper.
174	Authors: Loh JK;Lin CL;Kwan AL;Howng SL;. Title: Acute subdural hematoma in infancy. Journal Name: Surgical Neurology. Year: 2002 Sep	This is a small case series about head trauma.
175	Authors: Friendly DS;. Title: Ocular manifestations of physical child abuse. Journal Name: Transactions - American Academy of Ophthalmology and Otolaryngology. Year: 1971 Mar	This paper contains two small case series.
176	Authors: Harcourt B;Hopkins D;. Title: Permanent chorio-retinal lesions in childhood of suspected traumatic origin. Journal Name: Transactions of the Ophthalmological Societies of the United Kingdom. Year: 1973	This paper contains no data.
177	Authors: Kivlin JD;. Title: A 12-year ophthalmologic experience with the shaken baby syndrome at a regional children's hospital. Journal Name: Transactions of the American Ophthalmological Society. Year: 1999	No comparative data.
178	Authors: Gilliland MG;Luckenbach MW;. Title: Are retinal hemorrhages found after resuscitation attempts? A study of the eyes of 169 children. Journal Name: American Journal of Forensic Medicine and Pathology. Year: 1993 Sep	This is about differential diagnosis.
179	Authors: Leestma JE;. Title: Case analysis of brain-injured admittedly shaken infants: 54 Cases, 1969-2001. Journal Name: American Journal of Forensic Medicine and Pathology. Year: 2005	
180	Authors: Quintana EC;. Title: [Commentary on] Nonophthalmologist accuracy in diagnosing retinal hemorrhages in the shaken baby syndrome. Journal Name: Annals of Emergency Medicine. Year: 2004	This study is about diagnosing retinal haemorrhage.
181	Authors: Richards PG;Bertocci GE;Bonshek RE;Giangrande PL;Gregson RM;Jaspan T;Jenny C;Klein N;Lawler W;Peters M;Rorke-Adams LB;Vyas H;Wade A;. Title: Shaken baby syndrome. Journal Name: Archives of Disease in Childhood. Year: 2006	This is commentary on legal aspects.
182	Authors: Marcus DM;Albert DM;. Title: Recognizing child abuse. Journal Name: Archives of Ophthalmology. Year: 1992	This is not primary research.
183	Authors: Ou JJ;Moshfeghi DM;Tawansy K;Sears JE;. Title: Macular hole in the shaken baby syndrome. Journal Name: Archives of Ophthalmology. Year: 2006	This is a case series of 5 patients.
184	Authors: Geddes JF;Plunkett J;. Title: 'The evidence base for shaken baby syndrome': Authors' reply.. Journal Name: British Medical Journal. Year: 2004 Jun	This is commentary.
185	Authors: Geddes JF;Plunkett J;. Title: The evidence base for shaken baby syndrome. Journal Name: British Medical Journal. Year: 2004	This is commentary.
186	Authors: Geddes JF;Hackshaw AK;Vowles GH;Nickols CD;Whitwell HL;. Title: Neuropathology of inflicted head injury in children. I. Patterns of brain damage. Journal Name: Brain. Year: 2001 Jul	This is a post-mortem study.
187	Authors: Graham DJ;. Title: Paediatric head injury. Journal Name: Brain. Year: 2001	This is a commentary.
188	Authors: Levin AV;Mian M;Adams GGW;Luthert PJ;Geddes JF;Whitwell HL;Tasker RC;. Title: Shaken baby syndrome. Journal Name: British Journal of Neurosurgery. Year: 2003	This is commentary.

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Reference	Bibliographic information	Reason for rejecting study
189	Authors: Harcourt B;Hopkins D;. Title: Ophthalmic manifestations of the battered-baby syndrome. Journal Name: British Medical Journal. Year: 1971 Aug 14	This is a case series of 3 children.
190	Authors: Mushin AS;. Title: Ocular damage in the battered-baby syndrome. Journal Name: British Medical Journal. Year: 1971 Aug 14	This is a case series of 18 children.
191	Authors: Marshall DH;Brownstein S;Dorey MW;Addison DJ;Carpenter B;. Title: The spectrum of postmortem ocular findings in victims of shaken baby syndrome. Journal Name: Canadian Journal of Ophthalmology. Year: 2001 Dec	This study is about autopsy findings in 6 patients.
192	Authors: Eisenbrey AB;. Title: Retinal hemorrhage in the battered child. Journal Name: Child's Brain. Year: 1979	This is a literature review.
193	Authors: Tzioumi D;. Title: Subdural hematomas in children under 2 years. Accidental or inflicted? A 10-year experience. Journal Name: Child Abuse and Neglect. Year: 1998 Nov	This is about head trauma.
194	Authors: Naidoo S;. Title: A profile of the oro-facial injuries in child physical abuse at a children's hospital. Journal Name: Child Abuse and Neglect. Year: 2000 Apr	This paper contains no relevant data on eye trauma.
195	Authors: Reading R;. Title: Current Literature: Findings in older children with abusive head injury: Does shaken-child syndrome exist?. Journal Name: Child: Care, Health and Development. Year: 2006 Sep	This is a small case series.
196	Authors: Smith C;Bell J;. Title: Shaken baby syndrome: Evidence and experts. Journal Name: Developmental Medicine and Child Neurology. Year: 2008	This is a commentary.
197	Authors: Altman RL;Forman S;Brand DA;. Title: Ophthalmologic findings in infants after an apparent life-threatening event. Journal Name: European Journal of Ophthalmology. Year: 2007 Jul	This is a small case series.
198	Authors: . Title: Child abuse and the eye. The Ophthalmology Child Abuse Working Party. Journal Name: Eye. Year: 1999	This is a duplicate of 199
200	Authors: Taylor D;. Title: Unnatural injuries. Journal Name: Eye. Year: 2000 Apr	This is not primary research.
201	Authors: Trenchs V;Curcoy AI;Morales M;Serra A;Navarro R;Pou J;. Title: Retinal haemorrhages in- head trauma resulting from falls: Differential diagnosis with non-accidental trauma in patients younger than 2 years of age. Journal Name: Child's Nervous System. Year: 2008	No information on maltreatment. Nominally 'non-maltreated' infants.
202	Authors: Tang J;Buzney SM;Lashkari K;Weiter JJ;. Title: Shaken baby syndrome: a review and update on ophthalmologic manifestations. Journal Name: International Ophthalmology Clinics. Year: 2008	Review article.
154	Authors: Goldman M;Dagan Z;Yair M;Elbaz U;Lahat E;Yair M;. Title: Severe cough and retinal hemorrhage in infants and young children. Journal Name: Journal of Pediatrics. Year: 2006 Jun	There are no abuse cases in this study.

### 4.1.11 Spinal injuries

No search done.

#### 4.1.12 Visceral injuries

Reference	Bibliographic information	Reason For Rejecting
203	Title: Distinguishing inflicted versus accidental abdominal injuries in young children Authors: Wood J; Journal: Journal of Trauma-Injury Infection and Critical Care Year: 2005 Nov	*This study is not about soft tissue injuries but should be included in the review of abdominal pain.
21	Title: Patient and injury characteristics in abusive abdominal injuries Authors: Trokel M; Journal: Pediatric Emergency Care Year: 2006	*This study is not about soft tissue injuries but should be included in the review of abdominal pain/head trauma.
35	Title: Injuries of the gastrointestinal tract from blunt trauma in children: a 12-year experience at a designated pediatric trauma center Authors: Canty TG;Canty TG; Journal: Journal of Trauma-Injury Infection and Critical Care Year: 1999 Feb	*This study is not about soft tissue injuries but should be included in the review of abdominal pain.
107	Title: Child abuse and unintentional injuries: a 10-year retrospective Authors: DiScala C; Journal: Archives of Pediatrics and Adolescent Medicine Year: 2000 Jan	*This study is not about soft tissue injuries but could be of interest for epidemiology.
204	Title: Non-accidental injury Authors: Larcher V; Journal: Hospital Medicine (London) Year: 2004 Jun	This paper contains no original data.
21	Title: Patient and injury characteristics in abusive abdominal injuries Authors: Trokel M; Journal: Pediatric Emergency Care Year: 2006	This study does not discuss confirmed cases of child abuse.
35	Title: Injuries of the gastrointestinal tract from blunt trauma in children: a 12-year experience at a designated pediatric trauma center Authors: Canty TG;Canty TG; Journal: Journal of Trauma-Injury Infection and Critical Care Year: 1999 Feb	This study is not about child maltreatment.
205	Title: Rhabdomyolysis and renal failure in child abuse Authors: Mukherji SK; Journal: American Journal of Roentgenology Year: 1987	This is a single case report.
206	Title: Emergency. Is it child abuse? Even when the adult's account seems to be true, reassess Authors: Koschel MJ; Journal: American Journal of Nursing Year: 2003	This paper contains no original data.
207	Title: Visceral injuries in nonaccidental trauma: spectrum of injury and outcomes Authors: Roaten JB; Journal: American Journal of Surgery Year: 2005 Dec	This study describes 24 cases of intra-abdominal injuries caused by 'non-accidental trauma' with no statement of how 'non-accidental trauma' diagnosis was ascertained.
208	Title: The range of visceral manifestations of non-accidental injury Authors: Ng CS; Journal: Archives of Disease in Childhood Year: 1997	This study includes 12 case reports.
209	Title: Traumatic duodenal perforations in children: Child abuse a frequent cause Authors: Bowkett B; Journal: Australian and New Zealand Journal of Surgery Year: 1998	This is a case series of less than 50.
210	Title: Blunt abdominal injury in the young pediatric patient: child abuse and patient outcomes Authors: Trokel M; Journal: Child Maltreatment Year: 2004	This study does not help to answer the clinical question.
211	Title: Renal artery injury in child abuse Authors: Bolquier M; Journal: Child Nephrology and Urology Year: 1990	This is a single case report.
212	Title: Abusive Abdominal and Thoracic Trauma Authors: Herr S; Journal: Clinical Pediatric Emergency Medicine Year: 2006	This study comprises 3 single case reports.
213	Title: Child abuse in the pediatric intensive care unit Authors: Zenel J; Journal: Critical Care Medicine Year: 2002	This paper is a narrative with no original data.

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Reference	Bibliographic information	Reason For Rejecting
214	Title: Characteristic pancreatic injuries secondary to child abuse Authors: Servaes S; Journal: Emergency Radiology Year: 2003	This study contains no data.
215	Title: Blunt trauma of the abdomen of children Authors: Fossum RM; Journal: Journal of Forensic Sciences Year: 1991	This is a single case report.
216	Title: Duodenal injuries in children: beware of child abuse Authors: Gaines BA; Journal: Journal of Pediatric Surgery Year: 2004 Apr	This study describes only 8 cases of duodenal injury in association with unconfirmed child abuse.
217	Title: Major blunt abdominal trauma due to child abuse Authors: Cooper A; Journal: Journal of Trauma Year: 1988	This study is a case series of fewer than 50 children.
218	Title: Abdominal injury due to child abuse Authors: Barnes PM; Journal: Lancet Year: 2005	*This paper is useful for epidemiology info.
219	Title: Abdominal injury due to child abuse Authors: Hobbs CJ; Journal: Lancet Year: 2005	This is a commentary on 220.
221	Title: Oral surgical aspects of child abuse and neglect Authors: Sugar NF; Journal: Oral and Maxillofacial Surgery Clinics of North America Year: 2005	This study is a narrative with no original data.
222	Title: Accidental or inflicted? Authors: Thompson S; Journal: Pediatric Annals Year: 2005	There are no original data in this book chapter.
223	Title: Blunt abdominal injury: Simultaneously occurring liver and pancreatic injury in child abuse Authors: Cameron CM; Journal: Pediatric Emergency Care Year: 1997	This study contains 3 individual case reports.
224	Title: Child physical abuse and rhabdomyolysis: Case report and literature review Authors: Peebles J; Journal: Pediatric Emergency Care Year: 2007	This is a case series of less than 50 children.
225	Title: Perineal impalements in children: distinguishing accident from abuse Authors: Sugar NF; Journal: Pediatric Emergency Care Year: 2007 Sep	This study is a case series of less than 50 children.
226	Title: Abdominal visceral injuries in battered children Authors: Touloukian RJ; Journal: Pediatrics Year: 1968 Oct	This study a case series of less than 50 children.
227	Title: Markers for occult liver injury in cases of physical abuse in children Authors: Coant PN; Journal: Pediatrics Year: 1992	This paper does not answer the clinical question.
228	Title: Child abuse is associated with increased risk of death in young children with abdominal injuries Journal: Research Activities Year: 2004	This is a review of 210.
229	Title: Certain types of severe abdominal injury may signal child abuse in young children Journal: Research Activities Year: 2007	This is a review of 21.
230	Title: Pediatric abdominal trauma Authors: Ludwig S; Journal: Topics in Emergency Medicine Year: 1993	This is a narrative review paper.
231	Title: The problem of child abuse Authors: Marmon LM; Journal: Trauma Quarterly Year: 1989	This is a narrative paper.
232	Title: Duodenal rupture complicating childhood non-accidental injury Authors: Hamilton A; Journal: Ulster Medical Journal Year: 1985	This is a single case report.

#### 4.1.13 Oral health and oral injuries

Reference	Bibliographic information	Reason For Rejecting
233	Title: Motherhood and oral health Journal: Journal of the American Dental Association Year: 1996 Nov	This study is not about child maltreatment.
234	Title: Oral and dental aspects of child abuse and neglect: joint statement of the American Academy of Pediatrics and the American Academy of Pediatric Dentistry Journal: Pediatrics Year: 1999	This study is a narrative with no original research.
235	Title: Oral and dental aspects of child abuse and neglect Authors: Kellogg ND; Journal: Pediatrics Year: 2005	This is a narrative with no original data.
236	Title: The dentist's involvement with child abuse Authors: Blumberg ML; Journal: New York State Dental Journal Year: 1981 Feb	This is a case report and therefore not within the workplan.
237	Title: The pedodontist as adjunctive psychotherapist: report of a case Authors: Ezrine E; Journal: Journal of Dentistry for Children Year: 1975 May	This is a single case report and therefore not within the workplan.
238	Title: Sexual abuse of the oral cavity in children Authors: Heitzler GD; Journal: Journal of Michigan Dental Association Year: 1994 Jul	This is a case report and therefore not within the workplan.
239	Title: Orofacial manifestations of child abuse and neglect Authors: Jessee SA; Journal: American Family Physician Year: 1995 Nov 1	This is a narrative with no original data.
240	Title: Risk factors as determinants of dental neglect in children Authors: Jessee SA; Journal: Journal of Dentistry for Children Year: 1998 Jan	This is a narrative with no original data.
241	Title: Stress as a distal etiological factor in dental disease Authors: Krasner D; Journal: Journal of Preventive Dentistry Year: 1978 Nov	This study is not about child maltreatment.
242	Title: Oral medicine in practice: viral infection Authors: Lamey PJ; Journal: British Dental Journal Year: 1989 Oct 21	This study is not about child maltreatment.
243	Title: Human biting of children and oral manifestations of abuse: a case report and literature review Authors: Lee LY; Journal: Journal of Dentistry for Children Year: 1914	*This study is not about oral hygiene but should be considered in the review of bites.
244	Title: Child neglect and oral health problems in offspring of substance-abusing fathers Authors: Mezzich AC; Journal: American Journal on Addictions Year: 2007 Sep	This study is about risk factors for child maltreatment. This is outside the scope of the guideline.
245	Title: A life-course approach to assess the relationship between social and psychological circumstances and gingival status in adolescents Authors: Nicolau B; Journal: Journal of Clinical Periodontology Year: 2003 Dec	This study is not about child maltreatment.
246	Title: Untreated dental caries is common among 6 to 12-year-old physically abused/neglected children in Spain Authors: Olivan G; Journal: European Journal of Public Health Year: 2003 Mar	This letter discusses results from papers reviewed elsewhere.
247	Title: Conditions to be considered in the differential diagnosis of child abuse and neglect Authors: Rupp RP; Journal: General Dentistry Year: 1998 Jan	This is a narrative with no original data.
248	Title: Recognizing and reporting the orofacial trauma of child abuse/neglect Authors: Simon PA; Journal: Texas Dental Journal Year: 2000 Oct	This is a narrative with no original data.

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<b>Reference</b>	<b>Bibliographic information</b>	<b>Reason For Rejecting</b>
249	Title: Anogenital and respiratory tract human papillomavirus infections among children: age, gender, and potential transmission through sexual abuse Authors: Sinclair KA; Journal: Pediatrics Year: 2005 Oct	*This study is not about oral hygiene per se but should be included in the review of STIs and cross-referred when discussing oral signs..
250	Title: Mutilated teeth Authors: Whittaker DK; Journal: Dental Update Year: 1984 Oct	This study is not about child maltreatment.
251	Title: Oral health. Oral signs and symptoms help dentists detect disease and disorders in children Authors: Navarro S; Journal: School Nurse News Year: 2006	This is a narrative with no original data.

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## **4.2 Anogenital injuries and features**

### **4.2.1 Genital and anal symptoms**

No search conducted

### **4.2.2 Genital and anal signs**

No search conducted

### **4.2.3 Sexually transmitted infections**

No search conducted

# 5 Clinical presentations

## 5.1 Pregnancy

Reference	Bibliographic information	Reason for rejecting study
252	Authors: . Title: Childhood sex abuse victims may be susceptible to early pregnancy. Journal Name: School Nurse News. Year: 1994	British library unable to supply.
253	Authors: Adams MS;Neel JV;. Title: Children of incest. Journal Name: Pediatrics. Year: 1967 Jul	This study is not about child maltreatment.
254	Authors: Boyer D;Fine D;. Title: Sexual abuse as a factor in adolescent pregnancy and child maltreatment. Journal Name: Family Planning Perspectives. Year: 1919 19	This study is about consequences of child maltreatment. This is outside the scope of the guideline.
255	Authors: Burgess AW;. Title: How many red flags does it take?. Journal Name: American Journal of Nursing. Year: 2007 Jan	This is a single case report and therefore not within the work plan.
256	Authors: Cassin A;. Title: Sexual abuse and motherhood. Journal Name: Nursing Times. Year: 1996 Apr 10	This is a review article and not primary research and therefore not within the work plan.
257	Authors: Donovan P;. Title: Can statutory rape laws be effective in preventing adolescent pregnancy?. Journal Name: Family Planning Perspectives. Year: 1940	This is a review article and not primary research and therefore not within the work plan.
258	Authors: Elders MJ;Albert AE;. Title: Adolescent pregnancy and sexual abuse. Journal Name: JAMA: the journal of the American Medical Association. Year: 1998 Aug 19	This is a commentary and not primary research and therefore not within the work plan.
259	Authors: Erdmans MP;Black T;. Title: What they tell you to forget: from child sexual abuse to adolescent motherhood. Journal Name: Qualitative Health Research. Year: 2008 Jan	This study is about consequences of child maltreatment. This is outside the scope of the guideline.
260	Authors: Fiscella K;Kitzman HJ;Cole RE;Sidora KJ;Olds D;. Title: Does child abuse predict adolescent pregnancy?. Journal Name: Pediatrics. Year: 1998 Apr	This study is about consequences of child maltreatment. This is outside the scope of the guideline.
261	Authors: Gershenson HP;Musick JS;Ruch-Ross HS;Magee V;. Title: The prevalence of coercive sexual experience among teenage mothers. Journal Name: Journal of Interpersonal Violence. Year: 1989 Jun	This study is about consequences of child maltreatment. This is outside the scope of the guideline.
262	Authors: Herrenkohl EC;Herrenkohl RC;Egolf BP;Russo MJ;. Title: The relationship between early maltreatment and teenage parenthood. Journal Name: Journal of Adolescence. Year: 1998 Jun	This study is about consequences of child maltreatment. This is outside the scope of the guideline.
263	Authors: Hillard PA;. Title: Abuse, sexuality, and pregnancy in children and adolescents. Journal Name: Current Opinion in Obstetrics and Gynecology. Year: 1990 Dec	This is a review article and not primary research and therefore not within the work plan.
264	Authors: Holmes MM;Resnick HS;Kilpatrick DG;Best CL;. Title: Rape-related pregnancy: estimates and descriptive characteristics from a national sample of women. Journal Name: American Journal of Obstetrics and Gynecology. Year: 1996 Aug	This study is not about child maltreatment.
265	Authors: Papineni P;. Title: Children of bad memories. Journal Name: Lancet. Year: 2003 Sep 6	This study is not about child maltreatment.

Reference	Bibliographic information	Reason for rejecting study
266	Authors: Parker B;. Title: Abuse of adolescents: what can we learn from pregnant teen-agers?. Journal Name: AWHONNS Clinical Issues in Perinatal and Womens Health Nursing. Year: 1993	This is a review article and not primary research and therefore not within the work plan.
267	Authors: Prescott A;. Title: A journey from abuse to motherhood. Journal Name: Midwifery Matters. Year: 2001	This is a single case report and therefore not within the work plan.
268	Authors: Rainey DY;Stevens-Simon C;Kaplan DW;. Title: Are adolescents who report prior sexual abuse at higher risk for pregnancy?. Journal Name: Child Abuse and Neglect. Year: 1995 Oct	This study is about consequences of child maltreatment. This is outside the scope of the guideline.
269	Authors: Romans SE;Martin JL;Morris EM;. Title: Risk factors for adolescent pregnancy: how important is child sexual abuse? Otago Women's Health Study. Journal Name: New Zealand Medical Journal. Year: 1997 Feb 14	This study is about consequences of child maltreatment. This is outside the scope of the guideline.
270	Authors: Smith C;. Title: The link between childhood maltreatment and teenage pregnancy. Journal Name: Social Work Research. Year: 1996	This study is about consequences of child maltreatment. This is outside the scope of the guideline.
271	Authors: Stock JL;Bell MA;Boyer DK;Connell FA;. Title: Adolescent pregnancy and sexual risk-taking among sexually abused girls. Journal Name: Family Planning Perspectives. Year: 227 19	This study is about consequences of child maltreatment. This is outside the scope of the guideline.
272	Authors: Zanga JR;Kempen PM;Wenk RE;Houtz T;Elders MJ;Albert AE;. Title: 'Adolescent pregnancy and sexual abuse': Commentary. Journal Name: JAMA: the journal of the American Medical Association. Year: 1999 Feb	This is a letter to the editor and not primary research and therefore not within the work plan.
273	Authors: Boonma M;Bhoopat T;Treratwerapong T;Jintanadilog A;. Title: Physical effects of sexually abused children and adolescents at Taksin Hospital. Journal Name: Journal of the Medical Association of Thailand. Year: 2007 Dec	Case series

## 5.2 Dehydration

Reference	Bibliographic information	Reason for rejecting study
367	Authors: Beau JP;. Title: Dehydration in Kwashiorkor cases: a bad prognosis factor in Senegal. Journal Name: Journal of Tropical Pediatrics. Year: 1994 Oct	This study is not about child maltreatment.
368	Authors: Chesney RW;. Title: Extreme hyponatremia as a presenting sign of child abuse and psychosocial dwarfism. Journal Name: Johns Hopkins Medical Journal. Year: 1981 Jan	This is a single case report and therefore not within the work plan.
369	Authors: Coulthard MG;. Title: Distinguishing between salt poisoning and hypernatraemic dehydration in children.[erratum appears in BMJ. 2003 Aug 23;327(7412):422]. Journal Name: British Medical Journal. Year: 2003 Jan 18	This study is about how to diagnose child maltreatment. This is outside the scope of the guideline.
370	Authors: Feldman K;. Title: Salt poisoning: presenting symptom of child abuse. Journal Name: Veterinary and Human Toxicology. Year: 1979 Oct	This is a small case series including less than 50 cases and therefore not within the work plan.
371	Authors: Gingold MK;. Title: Altered consciousness and shock in a malnourished child. Journal Name: Seminars in Pediatric Neurology. Year: 1996 Sep	This is a single case report and therefore not within the work plan.
372	Authors: Kaplan JA;. Title: Fatal hypernatremic dehydration in exclusively breast-fed newborn infants due to maternal lactation failure. Journal Name: American Journal of Forensic Medicine and Pathology. Year: 1998 Mar	This study is not about child maltreatment.
130	Authors: Knight LD;. Title: A 25-year retrospective review of deaths due to pediatric neglect. Journal Name: American Journal of Forensic Medicine and Pathology. Year: 2005 Sep	This is a small case series including less than 50 cases and therefore not within the work plan.
373	Authors: Pickel S;. Title: Thirsting and hypernatremic dehydration—a form of child abuse. Journal Name: Pediatrics. Year: 1970 Jan	This is a small case series including less than 50 cases and therefore not within the work plan.
374	Authors: Piercecchi-Marti MD;. Title: Malnutrition, a rare form of child abuse: diagnostic criteria. Journal Name: Journal of Forensic Sciences. Year: 2006 May	This is a single case report and therefore not within the work plan.
375	Authors: Rosenberg DA;. Title: Unusual forms of child abuse. Journal Name: . Year: 1997 Jan 1	This is a review article and not primary research and therefore not within the work plan.
376	Authors: Trube-Becker E;. Title: The death of children following negligence: social aspects. Journal Name: Forensic Science. Year: 1977 Mar	This study is about risk factors for child maltreatment. This is outside the scope of the guideline.
377	Authors: Van W;. Title: Radiological case of the month. Journal Name: Archives of Pediatrics and Adolescent Medicine. Year: 1997	This is a single case report and therefore not within the work plan.
378	Authors: Whitehead FJ;. Title: Dehydration deaths in infants and young children. Journal Name: American Journal of Forensic Medicine and Pathology. Year: 1996 Mar	This study is not about child maltreatment.
379	Authors: Zhu BL;. Title: Infant death presumably due to exertional self-overheating in bed: an autopsy case of suspected child abuse. Journal Name: Nihon Hoigaku Zasshi - Japanese Journal of Legal Medicine. Year: 1998 Apr	This is a single case report and therefore not within the work plan.

### 5.3 Apparent life-threatening events

Reference	Author	Year	Reason for exclusion
389	Bellemare	2006	General education review
390	Davies	2002	In 391
392	Deputy	2003	Not ALTE
393	Fenichel	1987	Only 17 cases
186	Geddes	2001	Diagnostic investigation/test
394	Geddes	2001	Diagnostic investigation/test
395	Gerhardt	1999	Not ALTE but SS
396	Gilles	2003	Only 14 cases
397	Goldhagen	1986	General education review
398	Griffith	1988	Only 2 case reports
399	Guntheroth	1977	General education review
400	Hick		Only 5 cases
401	Hickson	1989	only 9 cases
402	Innis	2006	Case study
403	Kahn	1989	long-term development after alte
404	Kahn	2004	management of ALTE rather than link to maltreatment
3	Kelly	2004	not alte
385	Krous	2006	Basic physiology
405	Maffei	2004	Only 5 cases
406	Malatack		General education review
407	McIntosh	2007	not alte but oronaal hemorrhage
408	Meadow	1990	Case series < 50
409	Meadow	1998	Not ALTE
410	Mitchell	1993	only 11 cases
411	Paterson	1993	Not ALTE
412	Poets	2004	Not ALTE but GER
413	Poets	1991	Not ALTE but GER
908	Read	1982	General education review
414	Rosen	1986	Case series < 50

## When to suspect child maltreatment

Reference	Author	Year	Reason for exclusion
415	Rosen	2004	not alte
909	Ross-Russel	2007	guideline for management
416	Shah	2007	General education review
417	Sheridan	2003	General education review
418	Southall	1990	Diagnostic investigation/test
419	Southall	1996	management of ALTE rather than link to maltreatment
420	Southall	1997	Case series < 50
421	Speer	1996	consensus statement
422	Tolia	2003	General education review
423	Truman	2002	Assumes abuse occurred without verification
424	Waggener	1986	Basic physiology
425	Waseem	2006	Case study
426	Woo		Abstract only
427	Geddes	2004	only 15 cases
197	Altman	2007	Diagnostic investigation/test
428	Dunne	1987	Diagnosis not examined
429	Ariagno	1983	Only unknown cases examined and diagnosis not explained
430	Tirosh	1990	only 23 infants
431	Duffty	1982	Diagnosis not examined
432	Wennergren	1987	Diagnosis not examined

Reference	Bibliographic information	Reason for rejecting study
433	Authors: Bonkowsky JL;Guenther E;Filloux FM;Srivastava R;. Title: Death, child abuse, and adverse neurological outcome of infants after an apparent life-threatening event. Journal Name: Pediatrics. Year: 2008	Investigates whether ALTE leads to child abuse rather than the other way around.
303	Authors: Pitetti RD;Whitman E;Zaylor A;. Title: Accidental and nonaccidental poisonings as a cause of apparent life-threatening events in infants. Journal Name: Pediatrics. Year: 2008 Aug	No discussion of innocent vs neglectful vs inflicted poisonings.

## 5.4 Poisoning

Reference	Bibliographic information	Reason for rejecting study
434	Authors: . Title: Poisoning. Journal Name: Nursing - Oxford. Year: 1980 Jul	British library unable to supply.
435	Authors: Bates N;. Title: Poisoning: sodium chloride and sodium bicarbonate.. Journal Name: Emergency Nurse. Year: 2003 May	This study is not about child maltreatment.
436	Authors: Bithoney WG;Vandeven AM;Ryan A;. Title: Elevated lead levels in reportedly abused children. Journal Name: Journal of Pediatrics. Year: 1993 May	The study investigates secondary findings after abuse was identified.
437	Authors: Broderick M;. Title: Pediatric poisoning!. Journal Name: RN. Year: 2004	This study is not about child maltreatment.
438	Authors: Chadwick DL;. Title: The diagnosis of inflicted injury in infants and young children. Journal Name: Delaware Medical Journal. Year: 1997 Jul	This is a review article and not primary research and therefore not within the work plan.
439	Authors: Coulthard MG;Haycock GB;. Title: Distinguishing between salt poisoning and hypenatraemic dehydration in children. Journal Name: British Medical Journal. Year: 2003	This study is about how to diagnose child maltreatment. This is outside the scope of the guideline. Also, this is a small case series including less than 50 cases and therefore not within the work plan.
440	Authors: Dees DN;Dees DJ;. Title: Child abuse by poisoning. Journal Name: South Dakota Journal of Medicine. Year: 1993 Mar	This is a review article and not primary research and therefore not within the work plan.
441	Authors: Denny SJ;Grant CC;Pinnock R;. Title: Epidemiology of Munchausen syndrome by proxy in New Zealand. Journal Name: Journal of Paediatrics and Child Health. Year: 2001 Jun	This is a small case series including less than 50 cases and therefore not within the work plan.
442	Authors: Dine MS;McGovern ME;. Title: Intentional poisoning of children - An overlooked category of child abuse: Report of seven cases and review of the literature. Journal Name: Pediatrics. Year: 1982	This is a small case series including less than 50 cases and therefore not within the work plan.
443	Authors: Eldridge DL;Van EJ;Kornegay C;. Title: Pediatric toxicology. Journal Name: Emergency Medicine Clinics of North America. Year: 2007 May	This study is not about child maltreatment.
370	Authors: Feldman K;. Title: Salt poisoning: presenting symptom of child abuse. Journal Name: Veterinary and Human Toxicology. Year: 1979 Oct	This is a small case series including less than 50 cases and therefore not within the work plan.
444	Authors: Fischler RS;. Title: Poisoning: a syndrome of child abuse. Journal Name: American Family Physician. Year: 1983 Dec	This is a review article and not primary research and therefore not within the work plan.
445	Authors: Flaherty EG;. Title: Risk of lead poisoning in abused and neglected children. Journal Name: Clinical Pediatrics. Year: 1995 Mar	The study investigates secondary findings after abuse was identified.
446	Authors: Friedman EM;. Title: Caustic ingestions and foreign body aspirations: An overlooked form of child abuse. Journal Name: Annals of Otolaryngology, Rhinology and Laryngology. Year: 1987	This is a small case series including less than 50 cases and therefore not within the work plan.
447	Authors: Gad Johannsen H.;Mikkelsen JB;Larsen CF;. Title: Poisoning with household chemicals in children. Journal Name: Acta Paediatrica. Year: 1994 Dec	This study is not about child maltreatment.
448	Authors: Gray J;Bentovim A;. Title: Illness induction syndrome: Paper I - A series of 41 children from 37 families identified at the Great Ormond Street Hospital for Children NHS Trust. Journal Name: Child Abuse and Neglect. Year: 1996	This is a small case series including less than 50 cases and therefore not within the work plan.

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Reference	Bibliographic information	Reason for rejecting study
449	Authors: Haggerty RJ;. Title: Childhood poisoning: an overview. Journal Name: Pediatric Clinics of North America. Year: 1970 Aug	This is a review article and not primary research and therefore not within the work plan.
450	Authors: Hobbs CJ;. Title: Unusual syndromes of child abuse and neglect. Journal Name: Nursing Times. Year: 1983 Jan 19	This is a small case series including less than 50 cases and therefore not within the work plan.
451	Authors: Jackson RH;. Title: Poisoning in childhood. Journal Name: Practitioner. Year: 1983 Sep	This study is not about child maltreatment.
452	Authors: Kaye S;. Title: Poisoning in children. Journal Name: Boletin - Asociacion Medica de Puerto Rico. Year: 1976 Mar	This study is not about child maltreatment.
453	Authors: Kunkel DB;. Title: The chemically abused child... the toxic emergency. Journal Name: Emergency Medicine. Year: 1984	This is a review article and not primary research and therefore not within the work plan.
454	Authors: Lucas GN;. Title: Childhood poisoning in Sri Lanka. Journal Name: Ceylon Medical Journal. Year: 1990 Jun	This study is not about child maltreatment.
455	Authors: Madden MA;. Title: Pediatric poisonings: recognition, assessment, and management. Journal Name: Critical Care Nursing Clinics of North America. Year: 2005	This study is not about child maltreatment.
456	Authors: Marcus SM;. Title: Non-accidental poisoning with salicylate. Journal Name: Journal of the Medical Society of New Jersey. Year: 1979 Jul	This is a small case series including less than 50 cases and therefore not within the work plan.
276	Authors: McClure RJ;Davis PM;Meadow SR;Sibert JR;. Title: Epidemiology of Munchausen syndrome by proxy, non-accidental poisoning, and non-accidental suffocation. Journal Name: Archives of Disease in Childhood. Year: 1996 Jul	This is a small case series including less than 50 cases and therefore not within the work plan.
457	Authors: McGuigan MA;. Title: Poisoning in children. Journal Name: Current Opinion in Pediatrics. Year: 1991	This is a review article and not primary research and therefore not within the work plan.
458	Authors: Meadow R;. Title: ABC of child abuse. Poisoning. Journal Name: British Medical Journal. Year: 1989 May 27	This is a review article and not primary research and therefore not within the work plan.
459	Authors: Meadow R;. Title: Management of Munchausen syndrome by proxy. Journal Name: Archives of Disease in Childhood. Year: 1985 Apr	This is a review article and not primary research and therefore not within the work plan.
460	Authors: Meadow R;. Title: Non-accidental salt poisoning. Journal Name: Archives of Disease in Childhood. Year: 1993 Apr	This is a small case series including less than 50 cases and therefore not within the work plan.
461	Authors: Mitchels B;. Title: Munchausen Syndrome by Proxy: Protecting the child. Journal Name: Journal of the Forensic Science Society. Year: 1983	This is a single case report combined with a non-systematic literature review and therefore not within the work plan.
462	Authors: Pickering D;Ellis H;. Title: Neonatal hypoglycaemia due to salicylate poisoning. Journal Name: Proceedings of the Royal Society of Medicine. Year: 1968 Dec 12	This is a single case report and therefore not within the work plan.
463	Authors: Pragst F;Herre S;Bakdash A;. Title: Poisonings with diphenhydramine—a survey of 68 clinical and 55 death cases. Journal Name: Forensic Science International. Year: 2006 Sep 12	This study is not about child maltreatment.
464	Authors: Ramesh S;Srikanth S;Parvathy VR;. Title: Poisoning in children. Journal Name: Indian Journal of Pediatrics. Year: 1987 Sep	This study is not about child maltreatment.
465	Authors: Shafer N;Shafer R;. Title: Factitious diseases including Munchausen's syndrome.. Journal Name: New York State Journal of Medicine. Year: 1980 Mar	This study is not about child maltreatment.

Reference	Bibliographic information	Reason for rejecting study
466	Authors: Sharif F;Khan RA;Keenan P;. Title: Poisoning in a paediatric hospital. Journal Name: Irish Journal of Medical Science. Year: 2003 Apr	This study is not about child maltreatment.
467	Authors: Simon F;. Title: Poisoning in children. Journal Name: American Family Physician. Year: 1982 Feb	This study is not about child maltreatment.
468	Authors: St PJ;Rennert OM;Choi H;Wolfson S;. Title: Arsenic poisoning in childhood. Journal Name: Clinical Toxicology. Year: 1970 Dec	This study is not about child maltreatment.
469	Authors: Vennemann B;Bajanowski T;Karger B;Pfeiffer H;Kohler H;Brinkmann B;. Title: Suffocation and poisoning - The hard-hitting side of Munchausen syndrome by proxy. Journal Name: International Journal of Legal Medicine. Year: 2005	This is a small case series including less than 50 cases and therefore not within the work plan.
470	Authors: Zahavi I;Shaffer EA;Gall DG;. Title: Child abuse with laxatives. Journal Name: Canadian Medical Association Journal. Year: 1982 Sep 15	This is a single case report and therefore not within the work plan.
303	Authors: Pitetti RD;Whitman E;Zaylor A;. Title: Accidental and nonaccidental poisonings as a cause of apparent life-threatening events in infants. Journal Name: Pediatrics. Year: 2008 Aug	No discussion of innocent vs neglectful vs inflicted poisonings.

## 5.5 Non-fatal submersion injuries (near drowning)

Reference	Bibliographic information	Reason For Rejecting
471	Title: The dangerous implications of bathtub near-drownings Journal: Emergency Medicine Year: 1995	This study is a case series with only 21 cases and is about risk factors. Risk factors are outside the scope.
472	Title: Bathtub drowning: unintentional, neglect, or abuse. Authors: Alpert B; Journal: Medicine and Health, Rhode Island Year: 2003 Dec	This paper is a literature review only.
473	Title: The baby and the bath water: The case for discrimination between use and abuse Authors: Bardon JJ; Journal: Journal of Special Education Year: 1971 Win	This paper is a review and not primary research.
474	Title: Drowning in a child: accidental or neglect? Authors: Faridah MN;Khairani O; Journal: Medical Journal of Malaysia Year: 2003 Dec	This paper is a case report.
475	Title: When is childhood drowning neglect? Authors: Feldman KW;Monastersky C;Feldman GK; Journal: Child Abuse and Neglect Year: 1993 May	This study is about risk factors and consequences of drowning/near drowning events. This is outside the scope of the guideline.
476	Title: Child abuse by drowning Authors: Griest KJ;Zumwalt RE; Journal: Pediatrics Year: 1989 Jan	This is a case series describing six cases only. The paper is about drowning only and not about near-drowning.
477	Title: Drowning and near drowning in children in the United Kingdom: lessons for prevention Authors: Kemp A;Sibert JR; Journal: British Medical Journal Year: 1992 May 2	This study is not about child maltreatment but about prevention of drowning and near-drowning events.
478	Title: Accidents and child abuse in bathtub submersions Authors: Kemp AM;Mott AM;Sibert JR; Journal: Archives of Disease in Childhood Year: 1994 May	This paper is a case series including less than 50 cases.
479	Title: Ten-year review of pediatric bathtub near-drownings: evaluation for child abuse and neglect Authors: Lavelle JM;Shaw KN;Seidl T;Ludwig S; Journal: Annals of Emergency Medicine Year: 1995 Mar	This study is about risk factors for child maltreatment. This is outside the scope of the guideline.
480	Title: Non-accidental immersion in bathwater: another aspect of child abuse Authors: Nixon J;Pearn J; Journal: British Medical Journal Year: 1977 Jan 29	This is a review paper and not primary research.
481	Title: Attempted drowning as a form of non-accidental injury Authors: Pearn J;Nixon J; Journal: Australian Paediatric Journal Year: 1977 Jun	This is a case series which describes only two cases.

## 5.6 Repeated attendance at medical services

No search conducted

## 5.7 Fabricated or induced illness

Reference	Bibliographic information	Reason for rejecting study
482	Authors: Apolo J;. Title: Munchausen syndrome by proxy: The syndrome of fabricated illness in the pediatric patient. Journal Name: International Pediatrics. Year: 1999	This is an educational article.
483	Authors: Barber MA;Davis PM;. Title: Fits, faints, or fatal fantasy? Fabricated seizures and child abuse. Journal Name: Archives of Disease in Childhood. Year: 2002 Apr	This is an educational article.
484	Authors: Bass C;. Title: Fabricated or induced illness. Journal Name: Psychiatry. Year: 2006	This is an educational article.
485	Authors: Bass C;Adshead G;. Title: Fabrication and induction of illness in children: The psychopathology of abuse. Journal Name: Advances in Psychiatric Treatment. Year: 2007	This is not primary research.
486	Authors: Beard KV;. Title: Protect the children: be on the lookout for Munchausen syndrome by proxy.. Journal Name: RN. Year: 2007 Dec	This is not primary research.
389	Authors: Bellemare S;. Title: Child abuse by suffocation: A cause of apparent life-threatening events. Journal Name: Paediatrics and Child Health. Year: 2006	This is not primary research.
487	Authors: Boyce WT;. Title: The vulnerable child: new evidence, new approaches.. Journal Name: Advances in Pediatrics. Year: 1992	This is not primary research.
488	Authors: Castiglia PT;. Title: Munchausen syndrome by proxy. Journal Name: Journal of Pediatric Health Care. Year: 1995	This is an educational piece.
489	Authors: Chiczewski D;Kelly M;. Title: Munchausen syndrome by proxy. The importance of behavioral characteristics in recognition and investigation. Journal Name: Emergency Medical Services. Year: 2002 Oct	This is not primary research.
490	Authors: Cyr AM;. Title: What is Munchausen syndrome by proxy?. Journal Name: Nursing. Year: 2007 Apr	This is an educational piece.
390	Authors: Davies F;Gupta R;. Title: Apparent life threatening events in infants presenting to an emergency department. Journal Name: Emergency Medicine Journal. Year: 2002 Jan	Included in ALTE review - cross-referred to FII chapter.
491	Authors: Dolan B;. Title: The hospital hoppers. Journal Name: Nursing Times. Year: 1998 Jul 29	This is not primary research.
492	Authors: Ecker M;. Title: Troubled love: child abuse and Munchausen by proxy. Journal Name: NurseWeek. Year: 2000	This is not primary research.

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Reference	Bibliographic information	Reason for rejecting study
493	Authors: Edi-Osagie EC;Hopkins RE;Edi-Osagie NE;. Title: Munchausen's syndrome in obstetrics and gynecology: a review.. Journal Name: Obstetrical and Gynecological Survey. Year: 1998 Jan	This is not about MSBP, although it contains one case report of MSBP.
494	Authors: Feldman KW;Hickman RO;. Title: The central venous catheter as a source of medical chaos in Munchausen syndrome by proxy. Journal Name: Journal of Pediatric Surgery. Year: 1998 Apr	This study is included in 495.
496	Authors: Fialkov MJ;. Title: Peregrination in the problem pediatric patient. The pediatric Munchhausen syndrome?. Journal Name: Clinical Pediatrics. Year: 1984	This is an adult case report.
497	Authors: Galvin HK;Newton AW;Vandeven AM;. Title: Update on Munchausen syndrome by proxy.. Journal Name: Current Opinion in Pediatrics. Year: 2005 Apr	This is not primary research.
498	Authors: Gieler U;. Title: Factitious disease in the field of dermatology.. Journal Name: Psychotherapy and Psychosomatics. Year: 1994	This is not primary research.
499	Authors: Godfrey K;. Title: The disease of deceit. Journal Name: Nursing Times. Year: 1998 Jul 29	This is not primary research.
500	Authors: Goldstein AB;. Title: Identification and classification of factitious disorders: An analysis of cases reported during a ten year period. Journal Name: International Journal of Psychiatry in Medicine. Year: 1998	This is an adult study.
448	Authors: Gray J;Bentovim A;. Title: Illness induction syndrome: Paper I - A series of 41 children from 37 families identified at the Great Ormond Street Hospital for Children NHS Trust. Journal Name: Child Abuse and Neglect. Year: 1996	This series is included in 501.
502	Authors: Hannon DW;Knilans TK;. Title: Syncope in children and adolescents. Journal Name: Current Problems in Pediatrics. Year: 1993	This is not primary research.
503	Authors: Hirsch M;. Title: Syndromes related to factitious diseases. Journal Name: Psychotherapy and Psychosomatics. Year: 1994	This is not primary research.
450	Authors: Hobbs CJ;. Title: Unusual syndromes of child abuse and neglect. Journal Name: Nursing Times. Year: 1983 Jan 19	This is an educational article.
504	Authors: Hughes LM;Corbo-Richert B;. Title: Pediatrics. Munchausen syndrome by proxy: literature review and implications for critical care nurses. Journal Name: Critical Care Nurse. Year: 1999	Majority of studies in this review contained in 501. Data not presented as clearly as in 501.
505	Authors: Jani S;White M;Rosenberg LA;Maisami M;. Title: Munchausen syndrome by proxy. Journal Name: International Journal of Psychiatry in Medicine. Year: 1992	Cases included in 505.
506	Authors: Johnston JB;. Title: Munchausen's syndrome: looking beyond the mask. Journal Name: Emergency Nursing Reports. Year: 1988	Unable to get article.
507	Authors: Kahan BB;Yorker BC;. Title: Munchausen syndrome by proxy. Journal Name: Journal of School Health. Year: 1990	This case is included in 501.
508	Authors: Kirby JD;Matthews CN;James J;Duncan EH;Warin RP;. Title: The incidence and other aspects of factitious wealing (dermographism). Journal Name: British Journal of Dermatology. Year: 1971 Oct	This study is not about child maltreatment.
509	Authors: Lesh D;. Title: Munchausen syndrome by proxy. Journal Name: Journal of the American Academy of Nurse Practitioners. Year: 1995 Feb	This is not primary research.

Reference	Bibliographic information	Reason for rejecting study
510	Authors: Libow JA;. Title: Child and adolescent illness falsification. Journal Name: Pediatrics. Year: 2000 Feb	This study is about self-inflicted or fabricated illness by children.
511	Authors: Lyons-Ruth K;Kaufman M;Masters N;Wu J;. Title: Issues in the identification and long-term management of Munchausen by Proxy syndrome within a clinical infant service. Journal Name: Infant Mental Health Journal. Year: 1991 Win	This is included in 501.
512	Authors: Marcus A;Ammermann C;Klein M;Schmidt MH;. Title: Munchausen syndrome by proxy and factitious illness: Symptomatology, parent-child interaction, and psychopathology of the parents. Journal Name: European Child and Adolescent Psychiatry. Year: 1995 Oct	This study is included in 501
513	Authors: Meadow R;. Title: Munchausen by proxy and brain damage. Journal Name: Developmental Medicine and Child Neurology. Year: 1984 Oct	This is not primary research.
514	Authors: Meadow R;. Title: ABC of child abuse. Munchausen syndrome by proxy.. Journal Name: British Medical Journal. Year: 1989 Jul 22	This is not primary research.
515	Authors: Meadow R;. Title: Neurological and developmental variants of Munchausen syndrome by proxy. Journal Name: Developmental Medicine and Child Neurology. Year: 1991 Mar	This is not primary research.
516	Authors: Meadows SR;. Title: When a doctor turns detective... a caring mother who harms her child through needless operations and treatments for fake illnesses. Journal Name: Nursing Mirror. Year: 1982	Assume that this case series (not well documented) is better documented elsewhere.
517	Authors: Meadows SR;. Title: Who's to blame-mothers, Munchausen or medicine?. Journal Name: Journal of the Royal College of Physicians of London. Year: 1994 Jul	This is not primary research.
518	Authors: Money J;. Title: Munchausen's syndrome by proxy: update. Journal Name: Journal of Pediatric Psychology. Year: 1986 Dec	This is not primary research.
519	Authors: Murray HW;. Title: Factitious fever updated. Journal Name: Archives of Internal Medicine. Year: 1979 Jul	This is an editorial.
520	Authors: Neale B;Bools C;Meadow R;. Title: Problems in the assessment and management of Munchausen Syndrome by Proxy abuse. Journal Name: Children and Society. Year: 1991 Win	This is not primary research.
521	Authors: O'Shea B;. Title: Meadow's syndrome. Journal Name: Irish Journal of Psychotherapy and Psychosomatic Medicine. Year: 1987 Sep	Unable to get article.
522	Authors: Pasqualone GA;. Title: Munchausen's Syndrome by Proxy. Journal Name: On the Edge. Year: 1995	Unable to get article.
523	Authors: Pearl PT;. Title: Identifying and responding to Munchausen Syndrome by Proxy. Journal Name: . Year: 1995	This is not primary research.
524	Authors: Plassmann R;. Title: Munchausen syndromes and factitious diseases.. Journal Name: Psychotherapy and Psychosomatics. Year: 1994	This is not primary research.
525	Authors: Rand DC;Feldman MD;. Title: An explanatory model for Munchausen by proxy abuse. Journal Name: International Journal of Psychiatry in Medicine. Year: 2001	This study does not present clinically relevant information.
526	Authors: Roesler TA;Barry PC;Bock SA;. Title: Factitious food allergy and failure to thrive. Journal Name: Archives of Pediatrics and Adolescent Medicine. Year: 1994	This is a case series of 11 patients.

## When to suspect child maltreatment

Reference	Bibliographic information	Reason for rejecting study
527	Authors: Rogers R;. Title: Diagnostic, expanatory, and detection models of Munchausen by proxy: extrapolations from malingering and deception.. Journal Name: Child Abuse and Neglect. Year: 2004 Feb	This is about diagnosis.
414	Authors: Rosen CL;Frost JD;Glaze DG;. Title: Child abuse and recurrent infant apnea. Journal Name: Journal of Pediatrics. Year: 1986 Dec	This is a small case series of 17 children.
528	Authors: Rosenberg DA;. Title: Web of deceit: A literature review of Munchausen syndrome by proxy. Journal Name: Child Abuse and Neglect. Year: 1987	The data in this study are included in 501.
529	Authors: Sapira JD;. Title: Factitious hyposthenuria. Journal Name: American Journal of Medicine. Year: 1972 Dec	This is a single case report (in an adult?)
384	Authors: Schreier H;. Title: Munchausen by proxy.. Journal Name: Current Problems in Pediatric and Adolescent Health Care. Year: 2004 Mar	This is a review article.
530	Authors: Schreier HA;Libow JA;. Title: Munchausen syndrome by proxy: Diagnosis and prevalence. Journal Name: American Journal of Orthopsychiatry. Year: 1993	This is a non-systematic literature review.
531	Authors: Schreier HA;. Title: Repeated false allegations of sexual abuse presenting to sheriffs: When is it munchausen by proxy?. Journal Name: Child Abuse and Neglect. Year: 1996	This paper presents one case report.
532	Authors: Schreier HA;. Title: Factitious disorder by proxy in which the presenting problem is behavioral or psychiatric.. Journal Name: Journal of the American Academy of Child and Adolescent Psychiatry. Year: 2000 May	This is not primary research.
465	Authors: Shafer N;Shafer R;. Title: Factitious diseases including Munchausen's syndrome.. Journal Name: New York State Journal of Medicine. Year: 1980 Mar	This is about fabricated illness in adults.
533	Authors: Sharif I;. Title: Munchausen syndrome by proxy.. Journal Name: Pediatrics in Review. Year: 2004 Jun	This is not primary research.
534	Authors: Sheridan MS;. Title: Munchausen syndrome by proxy. Journal Name: Health and Social Work. Year: 1989	This is not primary research.
417	Authors: Sheridan MS;. Title: Munchausen Syndrome by Proxy and apnea. Journal Name: Neonatal Intensive Care. Year: 2003	This is a commentary article.
535	Authors: Skau K;Mouridsen SE;. Title: Munchausen syndrome by proxy: a review.. Journal Name: Acta Paediatrica. Year: 1995 Sep	This is not primary research.
536	Authors: Smith-Alnimer M;Papas-Kavalis H;. Title: Child abuse by a different name: how to recognize Munchausen syndrome by proxy. Journal Name: American Journal of Nursing. Year: 2003	This is not primary research.
537	Authors: Sofinowski RE;Butler PM;. Title: Munchausen syndrome by proxy: a review.. Journal Name: Texas Medicine. Year: 1991 Oct	This is not primary research.
538	Authors: Stirling J;American Academy of Pediatrics Committee on Child Abuse and Neglect.;; Title: Beyond Munchausen syndrome by proxy: identification and treatment of child abuse in a medical setting.. Journal Name: Pediatrics. Year: 2007 May	This is an educational article.
539	Authors: Strandvik B;. Title: Psychosocial stressors and gastrointestinal disorders in childhood and adolescence. Journal Name: Scandinavian Journal of Gastroenterology - Supplement. Year: 1987	This is not primary research.

Reference	Bibliographic information	Reason for rejecting study
540	Authors: Taylor S;Hyler SE;. Title: Update on factitious disorders.. Journal Name: International Journal of Psychiatry in Medicine. Year: 1993	This is not primary research.
541	Authors: Terry L;. Title: Fabricated or induced illness in children.. Journal Name: Paediatric Nursing. Year: 2004 Feb	This is not primary research.
423	Authors: Truman TL;Ayoub CC;. Title: Considering suffocatory abuse and Munchausen by proxy in the evaluation of children experiencing apparent life-threatening events and sudden infant death syndrome. Journal Name: Child Maltreatment. Year: 2002 May	This study does not discuss confirmed cases of fabricated or induced illness.
542	Authors: Van Moffaert M;. Title: Factitious affections in dermatology. Journal Name: Archives Belges de Dermatologie. Year: 1974 Oct	This study presents mainly adult data (only 5 children).
543	Authors: Weber S;. Title: Munchausen Syndrome by Proxy... dangerous form of child abuse. Journal Name: Journal of Pediatric Nursing: Nursing Care of Children and Families. Year: 1987	This is an educational article.
544	Authors: Wilson RG;. Title: Fabricated or induced illness in children. Munchausen by proxy comes of age.. Journal Name: British Medical Journal. Year: 2001 Aug 11	This is not primary research.

## 5.8 Inappropriately explained poor school attendance

No search carried out

# 6 Neglect – failure of provision and failure of supervision

## General features of neglect

Reference	Bibliographic information	Reason for rejecting study
274	Authors: Paget KD;Philip JD;Abramczyk LW;. Title: Recent developments in child neglect. Journal Name: Advances in Clinical Child Psychology. Year: 1993	This is a descriptive review chapter.
275	Authors: Villalba-Cota J;Trujillo-Hernandez B;Vasquez C;Coll-Cardenas R;Torres-Ornelas P;. Title: Causes of accidents in children aged 0-14 years and risk factors related to the family environment. Journal Name: Annals of Tropical Paediatrics. Year: 2004 Mar	This study does not discuss substantiated cases of neglect.
276	Authors: McClure RJ;Davis PM;Meadow SR;Sibert JR;. Title: Epidemiology of Munchausen syndrome by proxy, non-accidental poisoning, and non-accidental suffocation. Journal Name: Archives of Disease in Childhood. Year: 1996 Jul	This study does not discuss neglect.
277	Authors: Mu L;He P;Sun D;. Title: The causes and complications of late diagnosis of foreign body aspiration in children. Report of 210 cases. Journal Name: Archives of Otolaryngology – Head and Neck Surgery. Year: 1991 Aug	This study does not address neglect.
278	Authors: Marshall WN;. Title: Hospitalization of abused and neglected children. Journal Name: Archives of Pediatrics and Adolescent Medicine. Year: 1997 Mar	This study does not describe the presenting features of neglect.
279	Authors: Parsons BJ;Day LM;Ozanne-Smith J;Dobbin M;. Title: Rodenticide poisoning among children. Journal Name: Australian and New Zealand Journal of Public Health. Year: 1996 Oct	This study does not address substantiated cases of neglect.
85	Authors: Hobson MJ;. Title: An audit of non-accidental injury in burned children. Journal Name: Burns. Year: 1994 Oct	This study does not discuss neglect cases.
280	Authors: McLaren J;Brown RE;. Title: Childhood problems associated with abuse and neglect. Journal Name: Canada's Mental Health. Year: 1989 Sep	This is a literature review (included papers on neglect fall outside the years we searched).
281	Authors: Rosenthal JA;Motz JK;Edmonson DA;Groze V;. Title: A descriptive study of abuse and neglect in out-of-home-placement. Journal Name: Child Abuse and Neglect. Year: 1991	This study does not discuss presenting features of neglect.
282	Authors: Thyen U;Leventhal JM;Yazdgerdi SR;Perrin JM;. Title: Concerns about child maltreatment in hospitalized children. Journal Name: Child Abuse and Neglect. Year: 1997 Feb	This study is about clinician behaviour and does not discuss confirmed maltreatment cases.

## Excluded studies: Neglect – failure of provision and failure of supervision

Reference	Bibliographic information	Reason for rejecting study
80	Authors: Thomas DE;Leventhal JM;. Title: Referrals to a hospital-based child abuse committee: a comparison of the 1960s and 1990s. Journal Name: Child Abuse and Neglect. Year: 2001 Feb	This study does not report features of neglect.
283	Authors: Slack KS;Holl J;Altenbernd L;McDaniel M;Stevens AB;. Title: Improving the measurement of child neglect for survey research: issues and recommendations. Journal Name: Child Maltreatment. Year: 2003	This study does not address presenting features of neglect.
284	Authors: Dubowitz H;Pitts SC;Black MM;. Title: Measurement of three major subtypes of child neglect. Journal Name: Child Maltreatment. Year: 2004	This study does not address presenting features of neglect.
285	Authors: Dubowitz H;Newton RR;Litrownik AJ;Lewis T;Briggs EC;Thompson R;English D;Lee L;Feerick MM;. Title: Examination of a conceptual model of child neglect. Journal Name: Child Maltreatment. Year: 2005	This study does not address clinical presentations of neglect.
286	Authors: Conaway LP;Hansen DJ;. Title: Social behavior of physically abused and neglected children: A critical review. Journal Name: Clinical Psychology Review. Year: 1989	This is a literature review.
287	Authors: Trickett PK;Bride-Chang C;. Title: The developmental impact of different forms of child abuse and neglect. Journal Name: Developmental Review. Year: 1995 Sep	This study does not address the presenting features of neglect.
288	Authors: Sidebotham P;Biu T;Goldsworthy L;. Title: Child protection procedures in emergency departments. Journal Name: Emergency Medicine Journal. Year: 2007 Dec	This study does discuss presenting features of neglect.
289	Authors: Gaffney P;. Title: The domestic iron. A danger to young children. Journal Name: Journal of Accident and Emergency Medicine. Year: 2000	This study does not discuss features of neglect.
290	Authors: Keshavarz R;. Title: Child abuse and neglect presentations to a pediatric emergency department. Journal Name: Journal of Emergency Medicine. Year: 2002	This does not describe neglect-specific presentations.
291	Authors: Connell-Carrick K;Scannapieco M;. Title: Ecological correlates of neglect in infants and toddlers. Journal Name: Journal of Interpersonal Violence. Year: 2006 Mar	This study discusses risk factors for neglect.
292	Authors: Shevlin M;Dorahy M;Adamson G;. Title: Childhood traumas and hallucinations: an analysis of the National Comorbidity Survey. Journal Name: Journal of Psychiatric Research. Year: 2007 Apr	This is a study in adults.
293	Authors: Kaplan SJ;. Title: Child and adolescent abuse and neglect research: a review of the past 10 years. Part I: Physical and emotional abuse and neglect. Journal Name: Journal of the American Academy of Child and Adolescent Psychiatry. Year: 1999 Oct	This study does not discuss substantiated cases of neglect.
15	Authors: Rosenberg NM;. Title: Frequency of suspected abuse/neglect in burn patients. Journal Name: Pediatric Emergency Care. Year: 1989 Dec	This study does not make distinctions between inflicted and neglectful burns in its maltreatment category.
294	Authors: Herman-Staab B;. Title: Antecedents to nonorganic failure-to-thrive. Journal Name: Pediatric Nursing. Year: 1992	This study does not discuss child maltreatment.
295	Authors: Kelleher KJ;Casey PH;Bradley RH;Pope SK;Whiteside L;Barrett KW;Swanson ME;Kirby RS;. Title: Risk factors and outcomes for failure to thrive in low birth weight preterm infants.. Journal Name: Pediatrics. Year: 1993 May	This study investigated outcomes of pre-term children with failure to thrive.
296	Authors: Soori H;. Title: Developmental risk factors for unintentional childhood poisoning. Journal Name: Saudi Medical Journal. Year: 2001 Mar	This study does not discuss substantiated cases of neglect.

## When to suspect child maltreatment

Reference	Bibliographic information	Reason for rejecting study
297	Authors: Cengel-Kultur E;Cuhadaroglu-Cetin F;Gokler B;. Title: Demographic and clinical features of child abuse and neglect cases. Journal Name: Turkish Journal of Pediatrics. Year: 2007 Jul	This study does not discuss presenting features of neglect.
298	Authors: Dubowitz H;Zuckerman DM;Bithoney WG;Newberger EH;. Title: Child abuse and failure to thrive: individual, familial, and environmental characteristics. Journal Name: Violence and Victims. Year: 1989	The abuse cases in this study were 'inflicted physical injury' only. The other studies referenced (Newberger 1986 and Kotelchuck 1982) are outside the date range of this search.
299	Authors: Allison KC;Grilo CM;Masheb RM;Stunkard AJ;. Title: High self-reported rates of neglect and emotional abuse, by persons with binge eating disorder and night eating syndrome. Journal Name: Behaviour Research and Therapy. Year: 2007	This is an adult study.
300	Authors: Merrick MT;Lutrownik AJ;Everson MD;Cox CE;. Title: Beyond sexual abuse: the impact of other maltreatment experiences on sexualized behaviors. Journal Name: Child Maltreatment. Year: 2008	See sexualised behaviours.
301	Authors: Sempik J;Ward H;Darker I;. Title: Emotional and behavioural difficulties of children and young people at entry into care. Journal Name: Clinical Child Psychology and Psychiatry. Year: 2008 Apr	No documentation of evidence of maltreatment.
139	Authors: Hansoti B;Beattie TF;. Title: Limb fractures and nonaccidental injury in children less than 24 months of age. Journal Name: European Journal of Emergency Medicine. Year: 2008 Apr	See Fractures
302	Authors: Hui C;Joughin E;Goldstein S;Cooper N;Harder J;Kiefer G;Parsons D;Howard J;. Title: Femoral fractures in children younger than three years: the role of nonaccidental injury. Journal Name: Journal of Pediatric Orthopedics. Year: 2008 Apr	See Fractures
303	Authors: Pitetti RD;Whitman E;Zaylor A;. Title: Accidental and nonaccidental poisonings as a cause of apparent life-threatening events in infants. Journal Name: Pediatrics. Year: 2008 Aug	No discussion of innocent vs neglectful vs inflicted poisonings.
304	Authors: Jones R;Flaherty EG;Binns HJ;Price LL;Slora E;Abney D;Harris DL;Christoffel KK;Sege RD;. Title: Clinicians' description of factors influencing their reporting of suspected child abuse: report of the Child Abuse Reporting Experience Study Research Group. Journal Name: Pediatrics. Year: 2008	This study is not about maltreatment.
305	Authors: Kotch JB;Lewis T;Hussey JM;English D;Thompson R;Litrownik AJ;Runyan DK;Bangdiwala SI;Margolis B;Dubowitz H;. Title: Importance of early neglect for childhood aggression. Journal Name: Pediatrics. Year: 2008	See challenging and aggressive behaviour
306	Authors: Maher EJ;Li G;Carter L;Johnson DB;. Title: Preschool child care participation and obesity at the start of kindergarten. Journal Name: Pediatrics. Year: 2008 Aug	This is about clinician behaviours.

### 6.1.2 Over- and under-nutrition

Reference	Author	Year	Reason for exclusion
307	Martin		General literature review
308	Morgan	1999	Maltreatment not assessed
309	Johnson	2002	Weight gains whilst pregnant in adults
310	Neumark-Sztainer	1996	Maltreatment not assessed
298	Dubowitz	1989	Maltreatment and weight examined separately
311	Altemeier	1984	Maltreatment not assessed
312	Iwaniec	2003	Only 31 cases
313	Micali	2007	Maltreatment not assessed
314	Berrington	1986	Weight not assessed
315	Kirkley		General literature review
316	Patterson	1986	Maltreatment not assessed
317	Bithoney	1987	Only 41 cases
318	Sansone	2001	Only 34 cases
319	Rome	2004	Editorial
320	Vander	2004	Weight not assessed
321	Oates	1989	General literature review
322	Bradley	1985	Maltreatment not assessed
323	Goldson	1976	Birth weight
324	King	1996	Outcome of obesity treatment not link with maltreatment
325	Ayoub	1985	Maltreatment not assessed
326	Nakou	1982	Weight not assessed
327	Fairburn	2008	Eating disorder - Bulimia
328	Rorty	1994	Eating disorder - Bulimia
329	Ackard	2001	Eating disorder - Bulimia
330	van Gerko	2005	Eating disorder
331	Hund	2006	Eating disorder
332	Grilo	2001	Eating disorder - Bulimia
333	Waller	1993	Eating disorder - Anorexia
334	Kenardy	1998	Eating disorder
335	Hernandez	1995	Eating disorder

## When to suspect child maltreatment

Reference	Author	Year	Reason for exclusion
336	Moyer	1997	Eating disorder - Bulimia
337	Kent	1999	Eating disorder
338	Neumark-Sztainer	1999	Eating disorder
339	Wonderlich	2001	Eating disorder
340	Leonard	2003	Eating disorder - Bulimia
341	Treuer	2005	Eating disorder
299	Allison	2007	Eating disorder - Bulimia
342	Wonderlich	1996	Eating disorder - Bulimia
343	Preti	2006	Eating disorder
344	Hund	2005	Eating disorder
345	Pope	1994	Eating disorder - Bulimia
346	Oates	1984	Not examining link between weight and abuse
347	Cachelin	1999	Eating disorder - Bulimia
348	Stice	1998	Eating disorder
349	Bulik	1989	Eating disorder - Bulimia
350	Black	1997	Not examining link between weight and abuse
351	Grillo	2006	Impact in adulthood
352	Mamun	2007	Impact in adulthood
353	Aaron	2007	Impact in adulthood
354	Thompson	2001	Impact in adulthood
355	Grillo	2005	Impact in adulthood
356	Williamson	2002	Impact in adulthood
357	Fonseca	2002	Weight not measured
358	Neumark-Sztainer	1997	Weight not measured
359	Alvarez	2007	Impact in adulthood
360	Grillo	2005	Impact in adulthood
361	Van Hanswijck	2003	Impact in adulthood
362	Selway	2006	Impact in adulthood
363	Thompson	2001	Weight not measured
364	Zlotnick	1996	Weight not measured
365	Skuse	1995	weight as risk factor for being abused
366	King	1985	Comparison group unclear

**6.3.2 Oral health**

See 4.1.13 (oral health and oral injuries)

# 7 Emotional, behavioural, interpersonal and social functioning

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## 7.1 Emotional and behavioural states

Reference	Bibliographic information	Reason for rejecting study
545	Authors: Read J;van Os J;Morrison AP;Ross CA;. Title: Childhood trauma, psychosis and schizophrenia: A literature review with theoretical and clinical implications.. Journal Name: Acta Psychiatrica Scandinavica. Year: 2005 Nov	This is not relevant to the question.
546	Authors: Deykin EY;Buka SL;Zeena TH;. Title: Depressive illness among chemically dependent adolescents. Journal Name: American Journal of Psychiatry. Year: 1992 Oct	This study is based in a specific population.
547	Authors: Conger RE;. Title: Child abuse and self-esteem in latency-aged children. Journal Name: American Journal of Forensic Psychology. Year: 1992	This study is in a tertiary care sample.
548	Authors: Famularo R;Fenton T;Kinscherff R;. Title: Child maltreatment and the development of posttraumatic stress disorder. Journal Name: American Journal of Diseases of Children. Year: 1993 Jul	This study did not report on individual demeanours.
549	Authors: Connor DF;Doerfler LA;Volungis AM;Steingard RJ;Melloni RH;. Title: Aggressive behavior in abused children. Journal Name: Annals of the New York Academy of Sciences. Year: 2003 Dec	This study is primarily about aggression.
550	Authors: Wacogne ;. Title: Fearful children. Journal Name: Archives of Disease in Childhood. Year: 2001 Dec	This is commentary.
280	Authors: McLaren J;Brown RE;. Title: Childhood problems associated with abuse and neglect. Journal Name: Canada's Mental Health. Year: 1989 Sep	This is a literature review.
551	Authors: Poston C;. Title: Childhood abuse linked to dental fears. Journal Name: CDS Review. Year: 1990 Oct	This is not a piece of research.
552	Authors: Cerezo-Jimenez MA;Frias D;. Title: Emotional and cognitive adjustment in abused children. Journal Name: Child Abuse and Neglect. Year: 1994 Nov	This study does not report on demeanours.
553	Authors: Chandy JM;Blum RW;Resnick MD;. Title: Gender-specific outcomes for sexually abused adolescents. Journal Name: Child Abuse and Neglect. Year: 1996 Dec	This study does not report on demeanours.
554	Authors: Friedrich WN;. Title: Behavioral manifestations of child sexual abuse. Journal Name: Child Abuse and Neglect. Year: 1998 Jun	This is a commentary paper.

## Excluded studies: Emotional, behavioural, interpersonal and social functioning

Reference	Bibliographic information	Reason for rejecting study
555	Authors: Shapiro DL;Levendosky AA;. Title: Adolescent survivors of childhood sexual abuse: the mediating role of attachment style and coping in psychological and interpersonal functioning. Journal Name: Child Abuse and Neglect. Year: 1999 Nov	Sequelae.
556	Authors: Thompson AE;Kaplan CA;. Title: Emotionally abused children presenting to child psychiatry clinics. Journal Name: Child Abuse and Neglect. Year: 1999	This study does not report on demeanours.
557	Authors: Hildyard KL;. Title: Child neglect: developmental issues and outcomes. Journal Name: Child Abuse and Neglect. Year: 2002 Jun	This is a literature review.
558	Authors: Ackerman PT;Newton JEO;McPherson WB;Jones JG;Dykman RA;. Title: Prevalence of post traumatic stress disorder and other psychiatric diagnoses in three groups of abused children (sexual, physical, and both). Journal Name: Child Abuse and Neglect. Year: 1998	No comparison group
559	Authors: Kendall-Tackett KA;. Title: Physiological correlates of childhood abuse: chronic hyperarousal in PTSD, depression, and irritable bowel syndrome. Journal Name: Child Abuse and Neglect. Year: 2000 Jun	Literature review.
560	Authors: Mammen OK;Kolko DJ;Pilkonis PA;. Title: Negative affect and parental aggression in child physical abuse. Journal Name: Child Abuse and Neglect. Year: 2002 Apr	This is a study of adults.
561	Authors: Maughan A;Cicchetti D;. Title: Impact of child maltreatment and interadult violence on children's emotion regulation abilities and socioemotional adjustment. Journal Name: Child Development. Year: 2002 Sep	Emotion regulation measured by artificial scenarios.
562	Authors: Staudt MM;. Title: Psychopathology, peer relations, and school functioning of maltreated children: a literature review. Journal Name: Children and Schools. Year: 2001	This is a narrative review with no search methods stated.
563	Authors: Weaver TL;Clum GA;. Title: Psychological distress associated with interpersonal violence: A meta-analysis. Journal Name: Clinical Psychology Review. Year: 1995	This study did not distinguish between child and adult studies.
564	Authors: Ryan R;. Title: Posttraumatic stress disorder in persons with developmental disabilities. Journal Name: Community Mental Health Journal. Year: 1994	This is a study in adults.
565	Authors: Shields A;Ryan RM;Cicchetti D;. Title: Narrative representations of caregivers and emotion dysregulation as predictors of maltreated children's rejection by peers. Journal Name: Developmental Psychology. Year: 2001 May	For emotion dysregulation, examines relationship between emotion dysregulation and peer rejection.
566	Authors: Dykman RA;McPherson B;Ackerman PT;Newton JE;Mooney DM;Wherry J;Chaffin M;. Title: Internalizing and externalizing characteristics of sexually and/or physically abused children. Journal Name: Integrative Physiological and Behavioral Science. Year: 1997 Jan	This study has a small comparison group compared to the group of interest.
567	Authors: Chemtob CM;Carlson JG;. Title: Psychological Effects of Domestic Violence on Children and Their Mothers.. Journal Name: International Journal of Stress Management. Year: 2004 Aug	This topic already covered in systematic reviews.
568	Authors: Cohen Y;Spirito A;Sterling C;Donaldson D;. Title: Physical and sexual abuse and their relation to psychiatric disorder and suicidal behavior among adolescents who are psychiatrically hospitalized. Journal Name: Journal of Child Psychology and Psychiatry. Year: 1996 Nov	This study is too specialised for our purposes.
569	Authors: Rodriguez N;Vande KH;Foy DW;. Title: Posttraumatic stress disorder in survivors of childhood sexual and physical abuse: a critical review of the empirical research. Journal Name: Journal of Child Sexual Abuse. Year: 1998	This is not a systematic review.

## When to suspect child maltreatment

Reference	Bibliographic information	Reason for rejecting study
570	Authors: David D;Giron A;Mellman TA;. Title: Panic-phobic patients and developmental trauma. Journal Name: Journal of Clinical Psychiatry. Year: 1995 Mar	This is an adult study.
571	Authors: Kinard EM;. Title: Methodological issues in assessing the effects of maltreatment characteristics on behavioral adjustment in maltreated children. Journal Name: Journal of Family Violence. Year: 2004	This is a methodology paper.
572	Authors: Linning LM;Kearney CA;. Title: Post-traumatic stress disorder in maltreated youth: a study of diagnostic comorbidity and child factors. Journal Name: Journal of Interpersonal Violence. Year: 2004 Oct	PTSD too specialised.
573	Authors: Pelcovitz D;Kaplan S;Goldenberg B;Mandel F;. Title: Post-traumatic stress disorder in physically abused adolescents. Journal Name: Journal of the American Academy of Child and Adolescent Psychiatry. Year: -32676 Mar	PTSD too specialised.
574	Authors: Tarter RE;Hegedus AM;Winsten NE;Alterman AI;. Title: Neuropsychological, personality, and familial characteristics of physically abused delinquents. Journal Name: Journal of the American Academy of Child Psychiatry. Year: 1984 Nov	Not general population
575	Authors: McLeer SV;Deblinger E;Atkins MS;Foa EB;Ralphe DL;. Title: Post-traumatic stress disorder in sexually abused children. Journal Name: Journal of the American Academy of Child and Adolescent Psychiatry. Year: 1988 Sep	This study is included in 576.
577	Authors: Kiser LJ;Ackerman BJ;Brown E;Edwards NB;McColgan E;Pugh R;Pruitt DB;. Title: Post-traumatic stress disorder in young children: a reaction to purported sexual abuse. Journal Name: Journal of the American Academy of Child and Adolescent Psychiatry. Year: 1988 Sep	Small case series
578	Authors: Famularo R;Kinscherff R;Fenton T;. Title: Psychiatric diagnoses of maltreated children: preliminary findings. Journal Name: Journal of the American Academy of Child and Adolescent Psychiatry. Year: 1992 Sep	psychiatric diagnoses too specialised
579	Authors: Hussey DL;Singer M;. Title: Psychological distress, problem behaviors, and family functioning of sexually abused adolescent inpatients. Journal Name: Journal of the American Academy of Child and Adolescent Psychiatry. Year: 1993 Sep	Psychiatric samples
580	Authors: Merry SN;Andrews LK;. Title: Psychiatric status of sexually abused children 12 months after disclosure of abuse. Journal Name: Journal of the American Academy of Child and Adolescent Psychiatry. Year: 1994 Sep	About sequelae.
581	Authors: Pelcovitz D;. Title: Post-traumatic stress disorder in physically abused adolescents. Journal Name: Journal of the American Academy of Child and Adolescent Psychiatry. Year: 1994	PTSD too specialised
582	Authors: McLeer SV;Callaghan M;Henry D;Wallen J;. Title: Psychiatric disorders in sexually abused children. Journal Name: Journal of the American Academy of Child and Adolescent Psychiatry. Year: 1994 Mar	This is a small study with small numbers exhibiting a number of disorders. It is about psychiatric diagnoses and not behavioural or emotional changes.
583	Authors: Bal S;Van OP;De B;Crombez G;. Title: Avoidant coping as a mediator between self-reported sexual abuse and stress-related symptoms in adolescents.. Journal Name: Child Abuse and Neglect. Year: 2003 Aug	Avoidant coping not a clinical feature

## Excluded studies: Emotional, behavioural, interpersonal and social functioning

Reference	Bibliographic information	Reason for rejecting study
584	Authors: Ethier LS;Lemelin JP;Lacharite C;. Title: A longitudinal study of the effects of chronic maltreatment on children's behavioral and emotional problems. Journal Name: Child Abuse and Neglect. Year: 2004 Dec	This study reports on chronic vs transitory maltreatment.
585	Authors: Stokes SJ;Saylor CF;Swenson CC;Daugherty TK;. Title: A comparison of children's behaviors following three types of stressors. Journal Name: Child Psychiatry and Human Development. Year: 1995	This study does not account for confounders.
586	Authors: Ammerman RT;Cassisi JE;Hersen M;Van H;. Title: Consequences of physical abuse and neglect in children. Journal Name: Clinical Psychology Review. Year: 1986	This is a literature review.
587	Authors: Gibb BE;. Title: Childhood maltreatment and negative cognitive styles: A quantitative and qualitative review. Journal Name: Clinical Psychology Review. Year: 2002	The research topic is too specialised for our purposes.
588	Authors: Gover AR;MacKenzie DL;. Title: Child maltreatment and adjustment to juvenile correctional institutions.. Journal Name: Criminal Justice and Behavior. Year: 2003 Jun	This study does not address the question.
589	Authors: Solomons G;. Title: Child abuse and developmental disabilities. Journal Name: Developmental Medicine and Child Neurology. Year: 1979 Feb	This is a commentary.
590	Authors: Sidana UR;Sinha D;. Title: Child rearing practices and the development of fears in children. Journal Name: Indian Journal of Psychology. Year: 1973 Jun	This study is not about child maltreatment.
591	Authors: Rogosch FA;Cicchetti D;. Title: Child maltreatment and emergent personality organization: perspectives from the five-factor model. Journal Name: Journal of Abnormal Child Psychology. Year: 2004 Apr	Personality factors not relevant.
592	Authors: Bagley C;Shewchuk-Dann D;. Title: Characteristics of 60 children and adolescents who have a history of sexual assault against others: Evidence from a controlled study. Journal Name: Journal of Child and Youth Care. Year: 1991	This study does not address demeanours in maltreated children.
593	Authors: White S;Halpin BM;Strom GA;Santilli G;. Title: Behavioral comparisons of young sexually abused, neglected, and nonreferred children. Journal Name: Journal of Clinical Child Psychology. Year: 1988 Mar	This study is included in 576.
594	Authors: Fantuzzo JW;Jurecic L;Stovall A;Hightower AD;Goins C;Schachtel D;. Title: Effects of adult and peer social initiations on the social behavior of withdrawn, maltreated preschool children. Journal Name: Journal of Consulting and Clinical Psychology. Year: 1988 Feb	not relevant
595	Authors: Lipovsky JA;Saunders BE;Murphy SM;. Title: Depression, anxiety, and behavior problems among victims of father-child sexual assault and nonabused siblings. Journal Name: Journal of Interpersonal Violence. Year: 1989 Dec	This study is included in 576.
596	Authors: Paolucci EO;Genuis ML;Violato C;. Title: A meta-analysis of the published research on the effects of child sexual abuse. Journal Name: Journal of Psychology. Year: 2001 Jan	This includes many adult studies and does not provide information by age.
597	Authors: Fergusson DM;Horwood LJ;Lynskey MT;. Title: Childhood sexual abuse and psychiatric disorder in young adulthood: II. Psychiatric outcomes of childhood sexual abuse. Journal Name: Journal of the American Academy of Child and Adolescent Psychiatry. Year: 1996 Oct	Too specialised
598	Authors: Diclemente RJ;Wingood GM;Lang DL;Crosby RA;Salazar LF;Harrington K;Hertzberg VS;. Title: Adverse health consequences that co-occur with depression: a longitudinal study of black adolescent females. Journal Name: Pediatrics. Year: 2005 Jul	This study has a low level of confirmation of abuse.

## When to suspect child maltreatment

Reference	Bibliographic information	Reason for rejecting study
599	Authors: Maddocks A;Griffiths L;Antao V;. Title: Detecting child sexual abuse in general practice: A retrospective case- control study from Wales. Journal Name: Scandinavian Journal of Primary Health Care. Year: 1999	This is a small sample.
600	Authors: Sturkie K;Flanzer JP;. Title: Depression and self-esteem in the families of maltreated adolescents. Journal Name: Social Work. Year: 9999	This study is about the families of abused children.
601	Authors: Romano E;De L;. Title: Male sexual abuse:: A review of effects, abuse characteristics, and links with later psychological functioning. Journal Name: Aggression and Violent Behavior. Year: 2001	This is not a systematic review.
602	Authors: Hughes HM;. Title: Psychological and behavioral correlates of family violence in child witnesses and victims. Journal Name: American Journal of Orthopsychiatry. Year: 1988 Jan	This study is included in 603 and 604.
605	Authors: Cohen JA;Mannarino AP;. Title: Psychological symptoms in sexually abused girls. Journal Name: Child Abuse and Neglect. Year: 1988	This study is included in 576.
606	Authors: Deblinger E;McLeer SV;Atkins MS;Ralphe D;Foa E;. Title: Post-traumatic stress in sexually abused, physically abused, and nonabused children. Journal Name: Child Abuse and Neglect. Year: 1989	This study is included in 576.
607	Authors: Lipschitz DS;Winegar RK;Hartnick E;Foote B;Southwick SM;. Title: Posttraumatic stress disorder in hospitalized adolescents: psychiatric comorbidity and clinical correlates. Journal Name: Journal of the American Academy of Child and Adolescent Psychiatry. Year: 1999 Apr	PTSD too specialised.
608	Authors: Browne A;Finkelhor D;. Title: Impact of child sexual abuse: A review of the research. Journal Name: Psychological Bulletin. Year: 1986 Jan	Literature review
609	Authors: Young GH;Gerson S;. Title: New psychoanalytic perspectives on masochism and spouse abuse. Journal Name: Psychotherapy: Theory, Research, Practice, Training. Year: 1991 Spr	This is not relevant to child protection.
610	Authors: Polansky NA;Ammons PW;Gaudin JM;. Title: Loneliness and isolation in child neglect. Journal Name: Social Casework. Year: 1985 Jan	This study is about neglectful mothers.
611	Authors: Whiffen VE;Macintosh HB;. Title: Mediators of the link between childhood sexual abuse and emotional distress. Journal Name: Trauma, Violence, and Abuse: A Review Journal. Year: 2005	This is not primary research.
612	Authors: Tyler KA;. Title: Social and emotional outcomes of childhood sexual abuse: A review of recent research. Journal Name: Aggression and Violent Behavior. Year: 2002	This is not a systematic review.
613	Authors: McNeese MC;. Title: When to suspect child abuse. Journal Name: American Family Physician. Year: 1982	This study contains no primary research.
614	Authors: Fierman EJ;Hunt MF;Pratt LA;Warshaw MG;Yonkers KA;Peterson LG;Epstein-Kaye TM;Norton HS;. Title: Trauma and posttraumatic stress disorder in subjects with anxiety disorders. Journal Name: American Journal of Psychiatry. Year: 1993	Adult study.
615	Authors: Horowitz JE;. Title: Sexual abuse of children: A review of victim symptomatology, offender behavioral patterns, and treatment methods. Journal Name: American Mental Health Counselors Association Journal. Year: 1985	This study contains no primary research.
616	Authors: Bagley C;. Title: The long-term psychological effects of child sexual abuse: A review of some British and Canadian studies of victims and their families. Journal Name: Annals of Sex Research. Year: 1991	This is not a systematic review.

## Excluded studies: Emotional, behavioural, interpersonal and social functioning

Reference	Bibliographic information	Reason for rejecting study
617	Authors: Price L;Maddocks A;Davies S;Griffiths L;. Title: Somatic and psychological problems in a cohort of sexually abused boys: A six year follow up case-control study. Journal Name: Archives of Disease in Childhood. Year: 2002	This study does not give specific information about the types of psychological or somatic problems experienced.
618	Authors: Joyce PR;McKenzie JM;Luty SE;Mulder RT;Carter JD;Sullivan PF;Cloninger CR;. Title: Temperament, childhood environment and psychopathology as risk factors for avoidant and borderline personality disorders. Journal Name: Australian and New Zealand Journal of Psychiatry. Year: 2003	Outcomes too specialised
619	Authors: Carroll J;. Title: The protection of children exposed to marital violence. Journal Name: Child Abuse Review. Year: 1994	This is not primary research.
620	Authors: Goodman M;Weiss DS;Koenigsberg H;Kotlyarevsky V;New AS;Mitropoulou V;Silverman JM;O'Flynn K;Siever LJ;. Title: The role of childhood trauma in differences in affective instability in those with personality disorders. Journal Name: Cns Spectrums. Year: 2003	Adult study.
621	Authors: Willumsen T;. Title: The impact of childhood sexual abuse on dental fear. Journal Name: Community dentistry and oral epidemiology. Year: 2004	This is an adult study.
622	Authors: Llewellyn A;. Title: The abuse of children with physical disabilities in mainstream schooling. Journal Name: Developmental Medicine and Child Neurology. Year: 1995	This is not primary research.
623	Authors: Sadowski H;Trowell J;Kolvin I;Weeramanthri T;Berelowitz M;Gilbert LH;. Title: Sexually abused girls: patterns of psychopathology and exploration of risk factors. Journal Name: European Child and Adolescent Psychiatry. Year: 2003	Beyond front-line
624	Authors: Gomes-Schwartz B;Horowitz JM;Sauzier M;. Title: Severity of emotional distress among sexually abused preschool, school-age, and adolescent children. Journal Name: Hospital and Community Psychiatry. Year: 1985 May	This study is included in 576.
625	Authors: Mulvihill D;. Title: The health impact of childhood trauma: an interdisciplinary review, 1997-2003. Journal Name: Issues in Comprehensive Pediatric Nursing. Year: 2005	This study is not specific to child maltreatment.
626	Authors: Lizardi H;Klein DN;Ouimette PC;Riso LP;Anderson RL;Donaldson SK;. Title: Reports of the childhood home environment in early-onset dysthymia and episodic major depression. Journal Name: Journal of Abnormal Psychology. Year: 1995	Adult study.
627	Authors: Howes C;Eldredge R;. Title: Responses of abused, neglected, and non-maltreated children to the behaviors of their peers. Journal Name: Journal of Applied Developmental Psychology. Year: 1985	Study imposes scenarios to identify behaviours.
628	Authors: Valente SM;. Title: Sexual abuse of boys. Journal Name: Journal of Child and Adolescent Psychiatric Nursing. Year: 2005	This is a narrative review with no search methods stated.
629	Authors: Watkins B;Bentovim A;. Title: The sexual abuse of male children and adolescents: a review of current research. Journal Name: Journal of Child Psychology and Psychiatry and Allied Disciplines. Year: 1992	This is a literature review.
630	Authors: Friedrich WN;Einbender AJ;. Title: The abused child: A psychological review. Journal Name: Journal of Clinical Child Psychology. Year: 1983 Win	This is not a systematic review.
631	Authors: Spaccarelli S;Fuchs C;. Title: Variability in symptom expression among sexually abused girls: developing multivariate models. Journal Name: Journal of Clinical Child Psychology. Year: 1997	Does not report on specific signs or symptoms.

## When to suspect child maltreatment

Reference	Bibliographic information	Reason for rejecting study
632	Authors: Dubner AE;Motta RW;. Title: Sexually and physically abused foster care children and posttraumatic stress disorder. Journal Name: Journal of Consulting and Clinical Psychology. Year: 1999	PTSD not an initial presenting feature.
633	Authors: Kilpatrick DG;Ruggiero KJ;Acierno R;Saunders BE;Resnick HS;Best CL;. Title: Violence and risk of PTSD, major depression, substance abuse/dependence, and comorbidity: results from the National Survey of Adolescents. Journal Name: Journal of Consulting and Clinical Psychology. Year: 2003	PTSD not an initial presenting feature
634	Authors: Levendosky AA;Huth-Bocks AC;Semel MA;Shapiro DL;. Title: Trauma symptoms in preschool-age children exposed to domestic violence. Journal Name: Journal of Interpersonal Violence. Year: 2002	This study is included in 604
635	Authors: Rick S;. Title: Sexually abused boys: a vulnerable population. Journal Name: Journal of Multicultural Nursing and Health. Year: 2003	n < 50
636	Authors: Briere J;Rickards S;. Title: Self-awareness, affect regulation, and relatedness: differential sequels of childhood versus adult victimization experiences. Journal Name: Journal of Nervous and Mental Disease. Year: 2007	This is an adult study.
637	Authors: Murray JB;. Title: Relationship of childhood sexual abuse to borderline personality disorder, posttraumatic stress disorder, and multiple personality disorder. Journal Name: Journal of Psychology. Year: 1993	Literature review.
638	Authors: Sansonnet-Hayden H;Haley G;Marriage K;Fine S;. Title: Sexual abuse and psychopathology in hospitalized adolescents. Journal Name: Journal of the American Academy of Child and Adolescent Psychiatry. Year: 1987	Psychopathologies not relevant.
639	Authors: McLeer SV;Deblinger E;Henry D;Orvaschel H;. Title: Sexually abused children at high risk for post-traumatic stress disorder. Journal Name: Journal of the American Academy of Child and Adolescent Psychiatry. Year: 1992	PTSD too specialised.
640	Authors: Putnam FW;. Title: Ten-year research update review: child sexual abuse. Journal Name: Journal of the American Academy of Child and Adolescent Psychiatry. Year: 2003	This is a literature review.
641	Authors: Orr DP;Downes MC;. Title: Self-concept of adolescent sexual abuse victims. Journal Name: Journal of Youth and Adolescence. Year: 1985	Included in 576
642	Authors: Briere J;Runtz M;. Title: The long-term effects of sexual abuse: a review and synthesis. Journal Name: New Directions for Mental Health Services. Year: 1991	This is a literature review.
643	Authors: Goldson E;. Title: The affective and cognitive sequelae of child maltreatment. Journal Name: Pediatric Clinics of North America. Year: 1991	This is a literature review.
644	Authors: Tolin DF;Foa EB;. Title: Sex differences in trauma and posttraumatic stress disorder: a quantitative review of 25 years of research. Journal Name: Psychological Bulletin. Year: 2006	PTSD too specialised.
645	Authors: Mabanglo MAG;. Title: Trauma and the effects of violence exposure and abuse on children: A review of the literature.. Journal Name: Smith College Studies in Social Work. Year: 2002	This is a literature review.
646	Authors: Berard RM;Boermeester F;. Title: Sexual abuse in adolescents—data from a psychiatric treatment centre for adolescents. Journal Name: South African Medical Journal. Year: 1999	Too specialised.

## Excluded studies: Emotional, behavioural, interpersonal and social functioning

Reference	Bibliographic information	Reason for rejecting study
647	Authors: Gibb BE;Abela JRZ;. Title: Emotional abuse, verbal victimization, and the development of children's negative inferential styles and depressive symptoms.. Journal Name: Cognitive Therapy and Research. Year: 2008 Apr	Sample drawn from children of people with depression - too narrow.
648	Authors: Reyes CJ;. Title: Exploring the relations among the nature of the abuse, perceived parental support, and child's self-concept and trauma symptoms among sexually abused children. Journal Name: Journal of Child Sexual Abuse. Year: 2008	No comparison with normative samples on variables of interest.
649	Authors: Desbiens N;Gagne M;. Title: Profiles in the development of behavior disorders among youths with family maltreatment histories. Journal Name: Emotional and Behavioural Difficulties. Year: 2007	This study is n=23
650	Authors: Edleson JL;. Title: Children's witnessing of adult domestic violence. Journal Name: Journal of Interpersonal Violence. Year: 1999 Aug	There is no defined search strategy.
651	Authors: Fried S;. Title: Bullies & victims: Children abusing children. Journal Name: American Journal of Dance Therapy. Year: 1997 Fal	This is not primary research.
652	Authors: Garbarino J;. Title: Psychological child maltreatment. A developmental view.. Journal Name: Primary Care; Clinics in Office Practice. Year: 1993 Jun	This is not primary research.
653	Authors: Greenall PV;. Title: Sexual offending and antisocial personality: exploring the link. Journal Name: British Journal of Forensic Practice. Year: 2007	This study is not relevant to the question.
654	Authors: Haapasalo J;Moilanen J;. Title: Official and self-reported childhood abuse and adult crime of young offenders.. Journal Name: Criminal Justice and Behavior. Year: 2004 Apr	The mean age is 20y.
655	Authors: Hansen DJ;MacMillan VM;. Title: Behavioral assessment of child-abusive and neglectful families: Recent developments and current issues. Journal Name: Behavior Modification. Year: 1990 Jul	This is not primary research.
656	Authors: Helstela L;Sourander A;. Title: Self-reported competence and emotional and behavioral problems in a sample of Finnish adolescents.. Journal Name: Nordic Journal of Psychiatry. Year: 2001	This study is not about maltreatment.
657	Authors: Jeffrey TB;Jeffrey LK;. Title: Psychologic aspects of sexual abuse in adolescence. Journal Name: Current Opinion in Obstetrics and Gynecology. Year: 1991 Dec	This study contains no primary research.
658	Authors: Low G;Jones D;MacLeod A;Power M;Duggan C;. Title: Childhood trauma, dissociation and self-harming behaviour: A pilot study. Journal Name: British Journal of Medical Psychology. Year: 2000	This is an adult study.
659	Authors: Malmgren KW;Meisel SM;. Title: Examining the Link Between Child Maltreatment and Delinquency for Youth with Emotional and Behavioral Disorders.. Journal Name: Child Welfare Journal. Year: 2004	This study contains no useful data.
660	Authors: O'Grady KE;Kinlock TW;Hanlon TE;. Title: Prediction of violence history in substance-abusing inmates.. Journal Name: The Prison Journal. Year: 2007 Dec	This is not about child maltreatment
661	Authors: Reiter S;Bryen DN;Shachar I;. Title: Adolescents with intellectual disabilities as victims of abuse. Journal Name: Journal of Intellectual Disabilities. Year: 2007	This paper does not discuss behavioural issues.
662	Authors: Rodriguez CM;Richardson MJ;. Title: Stress and anger as contextual factors and preexisting cognitive schemas: predicting parental child maltreatment risk. Journal Name: Child Maltreatment. Year: 2007	This is about risk factors for maltreatment.

## When to suspect child maltreatment

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Reference	Bibliographic information	Reason for rejecting study
663	Authors: Swahn MH;Whitaker DJ;Pippen CB;Leeb RT;Teplin LA;Abram KM;McClelland GM;. Title: Concordance between self-reported maltreatment and court records of abuse or neglect among high-risk youths. Journal Name: American Journal of Public Health. Year: 2006	Not related to question.
664	Authors: Todd MK;Gesten EL;. Title: Predictors of child abuse potential in at-risk adolescents.. Journal Name: Journal of Family Violence. Year: 1999 Dec	This study is about the risk of children becoming abusers.
665	Authors: Wiklund S;. Title: Signs of child maltreatment. The extent and nature of referrals to Swedish child welfare agencies. Journal Name: European Journal of Social Work. Year: 2006	This study is not specific to maltreated children.

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### 7.1.3 Sudden and unexplained behavioural or emotional change

Reference	Bibliographic information	Reason for rejecting study
666	Authors: Chaffin M;Wherry JN;Dykman R;. Title: School age children's coping with sexual abuse: Abuse stresses and symptoms associated with four coping strategies. Journal Name: Child Abuse and Neglect. Year: 1997	Not relevant as different types of coping strategies are compared.
667	Authors: Feiring C;Taska L;Lewis M;. Title: The role of shame and attributional style in children's and adolescents' adaptation to sexual abuse. Journal Name: Child Maltreatment. Year: 1998 May	Not relevant as it concentrates on attributional style.
668	Authors: Haugaard JJ;. Title: Recognizing and Treating Uncommon Behavioral and Emotional Disorders in Children and Adolescents Who Have Been Severely Maltreated: Dissociative Disorders.. Journal Name: Child Maltreatment. Year: 2004 May	Literature review
669	Authors: Berliner L;. Title: Shame in child maltreatment: contributions and caveats. Journal Name: Child Maltreatment. Year: 2005 Nov	Literature review
670	Authors: Leiter J;. Title: School performance trajectories after the advent of reported maltreatment.. Journal Name: Children and Youth Services Review. Year: 2007 Mar	Literature review
671	Authors: Frasier LD;Barchman V;Alexander RC;. Title: Physical and behavioral signs of sexual abuse in infants and toddlers. Journal Name: Infants and Young Children. Year: 1992	This paper contains no primary research.
672	Authors: Jessee SA;. Title: Behavioral indicators of child maltreatment. Journal Name: Journal of Dentistry for Children. Year: 1999 Dec	This paper contains no primary research.
673	Authors: Green AH;. Title: Child sexual abuse: immediate and long-term effects and intervention. Journal Name: Journal of the American Academy of Child and Adolescent Psychiatry. Year: 1993 Sep	Literature review
674	Authors: Cole CV;. Title: Sexual abuse of middle school students. Journal Name: School Counselor. Year: 1995 Jan	Literature review
675	Authors: Grassi-Oliveira R;Ashy M;Stein LM;. Title: Psychobiology of childhood maltreatment: Effects of allostatic load?. Journal Name: Revista Brasileira de Psiquiatria. Year: 2008	This study does not address behavioural or emotional signs or symptoms.
305	Authors: Kotch JB;Lewis T;Hussey JM;English D;Thompson R;Litrownik AJ;Runyan DK;Bangdiwala SI;Margolis B;Dubowitz H;. Title: Importance of early neglect for childhood aggression. Journal Name: Pediatrics. Year: 2008	See challenging and aggressive behaviour
300	Authors: Merrick MT;Litrownik AJ;Everson MD;Cox CE;. Title: Beyond sexual abuse: the impact of other maltreatment experiences on sexualized behaviors. Journal Name: Child Maltreatment. Year: 2008	See sexualised behaviours.
676	Authors: Morrongiello BA;Klemencic N;Corbett M;. Title: Interactions between child behavior patterns and parent supervision: implications for children's risk of unintentional injury. Journal Name: Child Development. Year: 2008 May	No child maltreatment identified.
677	Authors: Noll JG;. Title: Sexual abuse of children-Unique in its effects on development?. Journal Name: Child Abuse and Neglect. Year: 2008	This is commentary.
678	Authors: Perlman SB;Kalish CW;Pollak SD;. Title: The role of maltreatment experience in children's understanding of the antecedents of emotion. Journal Name: Cognition and Emotion. Year: 2008	This is not about behavioural or emotional changes.

## When to suspect child maltreatment

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Reference	Bibliographic information	Reason for rejecting study
679	Authors: Root C;MacKay S;Henderson J;Del B;Warling D;. Title: The link between maltreatment and juvenile firesetting: Correlates and underlying mechanisms. Journal Name: Child Abuse and Neglect. Year: 2008	*See challenging and antisocial behaviour.
680	Authors: Stockwell MS;Brown J;Chen S;Vaughan RD;Irigoyen M;. Title: Is Underimmunization Associated With Child Maltreatment?. Journal Name: Ambulatory Pediatrics. Year: 2008	see neglect
681	Authors: Toktamis A;Demirel Y;Ozkan KU;Garipardic M;Gozukucuk A;Nur N;. Title: Prevalence and associated factors of day wetting and combined day and night wetting. Journal Name: Urologia Internationalis. Year: 2008	This study is not about maltreatment.
682	Authors: Valentino K;Cicchetti D;Rogosch FA;Toth SL;. Title: Memory, maternal representations, and internalizing symptomatology among abused, neglected, and nonmaltreated children. Journal Name: Child Development. Year: 2008 May	None of the hypotheses are relevant to clinical situations.

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#### 7.1.4 Selective mutism (elective mutism)

Reference	Bibliographic information	Reason for rejecting study
776	Authors: Law J;Conway J;. Title: Effect of abuse and neglect on the development of children's speech and language.. Journal Name: Developmental Medicine and Child Neurology. Year: 1992 Nov	Literature review.

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7.1.5 Disturbances of attachment

Reference	Bibliographic information	Reason for rejecting study
683	Authors: Aber JL;Allen JP;. Title: Effects of maltreatment on young children's socioemotional development: An attachment theory perspective.. Journal Name: Developmental Psychology. Year: 1987 May	Results not usable for our purposes
684	Authors: Bailey HN;Moran G;Pederson DR;. Title: Childhood maltreatment, complex trauma symptoms, and unresolved attachment in an at-risk sample of adolescent mothers. Journal Name: Attachment and Human Development. Year: 2007 Jun	The mean age of study participants is 18.5 years.
685	Authors: Barnett D;Ganiban J;Cicchetti D;. Title: Maltreatment, negative expressivity, and the development of Type D attachments from 12 to 24 months of age. Journal Name: Monographs of the Society for Research in Child Development. Year: 1999	This sample is included in 686.
687	Authors: Browne K;Saqi S;. Title: Mother/fant interaction and attachment in physically abusing families. Journal Name: Journal of Reproductive and Infant Psychology. Year: 1988	This study is included in 688.
689	Authors: Carlson V;Cicchetti D;Barnett D;Braunwald K;. Title: Disorganized/disoriented attachment relationships in maltreated infants.. Journal Name: Developmental Psychology. Year: 1989 Jul	This sample is included in 686
690	Authors: Festa GM;. Title: Abuse experiences and attachment in a group of adolescents in community. Journal Name: Acta Medica Romana. Year: 2002	This is a small case series.
691	Authors: Finzi R;Cohen O;Sapir Y;Weizman A;. Title: Attachment styles in maltreated children: a comparative study. Journal Name: Child Psychiatry and Human Development. Year: 2000	This study investigates drug use in fathers as a risk factor for insecure attachment.
692	Authors: Hodges J;Steele M;Hillman S;Henderson K;Neil M;. Title: Effects of abuse on attachment representations: Narrative assessments of abused children. Journal Name: Journal of Child Psychotherapy. Year: 2000	This research is not relevant to the question.
693	Authors: Lamb ME;Gaensbauer TJ;Malkin CM;Schultz LA;. Title: The effects of child maltreatment on security of infant-adult attachment. Journal Name: Infant Behavior and Development. Year: 1985	Does not address individual componenets of attachment problems.
694	Authors: Martin HP;Beezley P;. Title: Behavioral observations of abused children. Journal Name: Developmental Medicine and Child Neurology. Year: 1977 Jun	This is a non-comparative study.
695	Authors: Millward R;Kennedy E;Towilson K;Minnis H;. Title: Reactive attachment disorder in looked-after children.. Journal Name: Emotional and Behavioural Difficulties. Year: 2006 Dec	This paper is not about lack of attachment.
696	Authors: Morton N;Browne KD;. Title: Theory and observation of attachment and its relation to child maltreatment: a review.. Journal Name: Child Abuse and Neglect. Year: 1998 Nov	This study is not a systematic review.
697	Authors: Schaeffer S;Lewis M;. Title: Social behavior of maltreated children: A naturalistic study of day care. Journal Name: Research and Clinical Center for Child Development. Year: 1990 Mar 12	Unable to retrieve article.
698	Authors: Schneider-Rosen K;Braunwald KG;Carlson V;Cicchetti D;. Title: Current perspectives in attachment theory: Illustration from the study of maltreated infants. Journal Name: Monographs of the Society for Research in Child Development. Year: 1985	This sample is included in 686
699	Authors: Schneider-Rosen K;Cicchetti D;. Title: The relationship between affect and cognition in maltreated infants: quality of attachment and the development of visual self-recognition. Journal Name: Child Development. Year: 1984 Apr	This sample is included in 686

## Excluded studies: Emotional, behavioural, interpersonal and social functioning

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<b>Reference</b>	<b>Bibliographic information</b>	<b>Reason for rejecting study</b>
700	Authors: Thompson AE;Kaplan CA;. Title: Childhood emotional abuse. Journal Name: British Journal of Psychiatry. Year: 1996	Not a systematic review.
701	Authors: Youngblade LM;Belsky J;. Title: Child maltreatment, infant-parent attachment security, and dysfunctional peer relationships in toddlerhood. Journal Name: Topics in Early Childhood Special Education. Year: 1989 Sum	This is non-systematic review.

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### 7.1.6 Emotional dysregulation

Reference	Bibliographic information	Reason for rejecting study
702	Authors: Sequeira H;Hollins S;. Title: Clinical effects of sexual abuse on people with learning disability: critical literature review.. Journal Name: British Journal of Psychiatry. Year: 2003 Jan	This study does not address emotional dysregulation.
703	Authors: Hotte JP;Rafman S;. Title: The specific effects of incest on prepubertal girls from dysfunctional families. Journal Name: Child Abuse and Neglect. Year: 1992	No mention of emotionally dysregulated behaviours.
704	Authors: Cerezo MA;Frias D;. Title: Emotional and cognitive adjustment in abused children. Journal Name: Child Abuse and Neglect. Year: 1994 Nov	No mention of emotionally dysregulated behaviours.
705	Authors: Ligezinska M;Firestone P;Manion IG;McIntyre J;Ensom R;Wells G;. Title: Children's emotional and behavioral reactions following the disclosure of extrafamilial sexual abuse: initial effects. Journal Name: Child Abuse and Neglect. Year: 1996 Feb	No specific mention of emotionally dysregulated behaviours.
706	Authors: Sox R;. Title: Integrative review of recent child witness to violence research. Journal Name: Clinical Excellence for Nurse Practitioners. Year: 2004	This study does not address emotional dysregulation.
707	Authors: Trickett PK;. Title: Multiple maltreatment and the development of self and emotion regulation.. Journal Name: Journal of Aggression, Maltreatment and Trauma. Year: 1998	This study does not address emotional dysregulation.
708	Authors: Shields A;Cicchetti D;. Title: Reactive aggression among maltreated children: the contributions of attention and emotion dysregulation. Journal Name: Journal of Clinical Child Psychology. Year: 1998 Dec	This study suggests that emotion regulation is worse in maltreated children but does not give data on clinical features of emotion dysregulation.
709	Authors: Needlman R;Stevenson J;Zuckerman B;. Title: Psychosocial correlates of severe temper tantrums. Journal Name: Journal of Developmental and Behavioral Pediatrics. Year: 1991 Apr	This study is not about maltreatment.
710	Authors: Onyskiw JE;. Title: Domestic violence and children's adjustment: A review of research. Journal Name: Journal of Emotional Abuse. Year: 2003	This review, although systematic, does not provide additional information.
711	Authors: Peretti PO;Cox-Rodriguez D;. Title: Emotional characteristics of chronic and acute incestuous daughters. Journal Name: Panminerva Medica. Year: 1992 Oct	There are no comparisons of interest reported.
712	Authors: Teisl M;Cicchetti D;. Title: Physical abuse, cognitive and emotional processes, and aggressive/disruptive behavior problems.. Journal Name: Social Development. Year: 2008 Feb	This study does not address emotional dysregulation.

**7.1.7 Repeated nightmares in the absence of an obvious cause**

Reference	Bibliographic information	Reason for rejecting study
737	Authors: Sadeh A;McGuire JP;Sachs H;Seifer R;Tremblay A;Civita R;Hayden RM;. Title: Sleep and psychological characteristics of children on a psychiatric inpatient unit. Journal Name: Journal of the American Academy of Child and Adolescent Psychiatry. Year: 1995 Jun	Does not give information on nightmares
738	Authors: Garfield P;. Title: Nightmares in the sexually abused female teenager. Journal Name: Psychiatric Journal of the University of Ottawa. Year: 1987 Jun	Very poorly reported paper
739	Authors: Agargun MY;Kara H;Ozer OA;Selvi Y;Kiran U;Kiran S;. Title: Nightmares and dissociative experiences: the key role of childhood traumatic events. Journal Name: Psychiatry and Clinical Neurosciences. Year: 2003 Apr	This is a study in adults.
740	Authors: Agargun MY;Kara H;Ozer OA;Kiran U;Selvi Y;Kiran S;. Title: Sleep-related violence, dissociative experiences, and childhood traumatic events.. Journal Name: Sleep and Hypnosis. Year: 2002	This is a study in adults.

## When to suspect child maltreatment

### 7.1.9 Role reversal (compliance/role reversal)

Reference	Bibliographic information	Reason for rejecting study
713	Authors: Koenig AL;Cicchetti D;Rogosch FA;. Title: Child compliance/noncompliance and maternal contributors to internalization in maltreating and nonmaltreating dyads. Journal Name: Child Development. Year: 2000 Jul	The situations represented in this study are not relevant to the question.
714	Authors: Jones TL;Prinz RJ;. Title: Potential roles of parental self-efficacy in parent and child adjustment: a review.. Journal Name: Clinical Psychology Review. Year: 2005 May	This study is not relevant to the question
715	Authors: Wolfe DA;Wekerle C;Reitzel-Jaffe D;Lefebvre L;. Title: Factors associated with abusive relationships among maltreated and nonmaltreated youth. Journal Name: Development and Psychopathology. Year: 1998 Win	This study reports on the sequelae of maltreatment.
716	Authors: Manly JT;Kim JE;Rogosch FA;Cicchetti D;. Title: Dimensions of child maltreatment and children's adjustment: contributions of developmental timing and subtype. Journal Name: Development and Psychopathology. Year: 2001	This study does not address compliance or role reversal.
287	Authors: Trickett PK;Bride-Chang C;. Title: The developmental impact of different forms of child abuse and neglect. Journal Name: Developmental Review. Year: 1995 Sep	There is no search strategy stated in this review.
717	Authors: Fantuzzo JW;DePaola LM;Lambert L;Martino T;Anderson G;Sutton S;. Title: Effects of interparental violence on the psychological adjustment and competencies of young children. Journal Name: Journal of Consulting and Clinical Psychology. Year: 1991 Apr	This study does not address compliance or role reversal.
718	Authors: Boney-McCoy S;Finkelhor D;. Title: Psychosocial sequelae of violent victimization in a national youth sample. Journal Name: Journal of Consulting and Clinical Psychology. Year: 1995 Oct	This study is not about compliance or role reversal.
719	Authors: Milling KE;. Title: Perceived social skills and social competence in maltreated children. Journal Name: American Journal of Orthopsychiatry. Year: 1999	This study discusses neither compliance nor role reversal.
720	Authors: Fergusson DM;Lynskey MT;. Title: Physical punishment/maltreatment during childhood and adjustment in young adulthood. Journal Name: Child Abuse and Neglect. Year: 1997	This study reports on outcomes at age 18.
721	Authors: Cerezo MA;D'Ocon A;. Title: Maternal inconsistent socialization: An interactional pattern with maltreated children. Journal Name: Child Abuse Review. Year: 1995 Mar	This study does not address compliance or role reversal.
722	Authors: Lamborn SD;Mounts NS;Steinberg L;Dornbusch SM;. Title: Patterns of competence and adjustment among adolescents from authoritative, authoritarian, indulgent, and neglectful families. Journal Name: Child Development. Year: 1991 Oct	This study is about parenting styles.

### 7.1.10 Dissociation

Reference	Bibliographic information	Reason for rejecting study
881	Authors: Valentino K;Cicchetti D;Rogosch FA;Toth SL;. Title: True and false recall and dissociation among maltreated children: the role of self-schema. Journal Name: Development and Psychopathology. Year: 2008	This study does not investigate a direct relationship between maltreatment and dissociation
882	Authors: Daigneault I;Hebert M;Tourigny M;. Title: Attributions and coping in sexually abused adolescents referred for group treatment. Journal Name: Journal of Child Sexual Abuse. Year: 2006	Time between study and last episode of abuse was (on average) 3 years.
883	Authors: Becker-Blease KA;Freyd JJ;Pears KC;. Title: Preschoolers' memory for threatening information depends on trauma history and attentional context: Implications for the development of dissociation. Journal Name: Journal of Trauma and Dissociation. Year: 2004	This study is about memory as a mediator for dissociation.
884	Authors: Sanders B;Giolas MH;. Title: Dissociation and childhood trauma in psychologically disturbed adolescents.. Journal Name: American Journal of Psychiatry. Year: 1991 Jan	Case series of 47 children
885	Authors: Bagley C;Rodberg G;Wellings D;Moosa-Mitha M;Young L;. Title: Sexual and physical child abuse and the development of dissociative personality traits: Canadian and British evidence from adolescent child welfare and child care populations. Journal Name: Child Abuse Review. Year: 1995 May	This retrospective case series explores the development of dissociative personality traits in sexual and physical abuse. It's methodology is poor, combining case note data of a small number of adolescents from two continents. The aims/outcomes of the study are not appropriate for the question and the validity of their results questionable.
886	Authors: Hebert M;Collin-Vezina D;Daigneault I;Parent N;Tremblay C;. Title: Factors linked to outcomes in sexually abused girls: a regression tree analysis. Journal Name: Comprehensive Psychiatry. Year: 2006 Nov	Study is concerned with predictors of sexual abuse. Dissociation is discussed but not in a useful way.
887	Authors: Brosky BA;Lally SJ;. Title: Prevalence of trauma, PTSD, and dissociation in court-referred adolescents. Journal Name: Journal of Interpersonal Violence. Year: 2004 Jul	Inappropriate population and outcomes. Small proportion of abused children and dissociation not specifically tested for link with abuse.
888	Authors: Nilsson D;Svedin CG;. Title: Dissociation among Swedish adolescents and the connection to trauma: an evaluation of the Swedish version of Adolescent Dissociative Experience Scale. Journal Name: Journal of Nervous and Mental Disease. Year: 2006 Sep	Inappropriate aim and outcome measures
889	Authors: Chu A;DePrince AP;. Title: Development of dissociation: Examining the relationship between parenting, maternal trauma and child dissociation. Journal Name: Journal of Trauma and Dissociation. Year: 2006	Inappropriate aim and outcome measures
890	Authors: Daigneault I;Tourigny M;Hebert M;. Title: Self-attributions of blame in sexually abused adolescents: a mediational model. Journal Name: Journal of Traumatic Stress. Year: 2006 Feb	Inappropriate outcome measures e.g. role of blame in sexual abuse
891	Authors: Martinez-Taboas A;Canino G;Wang MQ;Garcia P;Bravo M;. Title: Prevalence and victimization correlates of pathological dissociation in a community sample of youths. Journal Name: Journal of Traumatic Stress. Year: 2006 Aug	Case series of 44 children
892	Authors: Endo T;Sugiyama T;Someya T;. Title: Attention-deficit/hyperactivity disorder and dissociative disorder among abused children. Journal Name: Psychiatry and Clinical Neurosciences. Year: 2006 Aug	Case series of 39 children

## When to suspect child maltreatment

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<b>Reference</b>	<b>Bibliographic information</b>	<b>Reason for rejecting study</b>
893	Authors: Atlas JA;Weissman K;Liebowitz S;. Title: Adolescent inpatients' history of abuse and dissociative identity disorder. Journal Name: Psychological Reports. Year: 1997 Jun	Abstract only therefore lack of information. n = 50 but only n = 12 with a history of abuse

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## 7.2 Behavioural disorders or abnormalities either seen or heard about

### 7.2.1 Self-harm

Reference	Bibliographic information	Reason for rejecting study
723	Authors: Glassman LH;Weierich MR;Hooley JM;Deliberto TL;Nock MK;. Title: Child maltreatment, non-suicidal self-injury, and the mediating role of self-criticism. Journal Name: Behaviour Research and Therapy. Year: 2007 Oct	Duplicate of 724.
725	Authors: Klonsky ED;Moyer A;. Title: Childhood sexual abuse and non-suicidal self-injury: meta-analysis.. Journal Name: British Journal of Psychiatry. Year: 2008 Mar	No distinction made between adult and child studies.
726	Authors: Yates TM;Carlson EA;Egeland B;. Title: A prospective study of child maltreatment and self-injurious behavior in a community sample. Journal Name: Development and Psychopathology. Year: 2008	This is an adult survey.
727	Authors: Syengo-Mutisya CM;Kathuku DM;Ndetei DM;. Title: Psychiatric morbidity among sexually abused children and adolescents. Journal Name: East African Medical Journal. Year: 2008 Feb	Psychiatric diagnoses beyond scope.
728	Authors: Liu X;Sun Z;Yang Y;. Title: Parent-reported suicidal behavior and correlates among adolescents in China. Journal Name: Journal of Affective Disorders. Year: 2008 Jan	Does not address child maltreatment.
729	Authors: Weierich MR;Nock MK;. Title: Posttraumatic stress symptoms mediate the relation between childhood sexual abuse and nonsuicidal self-injury. Journal Name: Journal of Consulting and Clinical Psychology. Year: 2008 Feb	Duplicate of 730.
731	Authors: Eisenberg ME;Ackard DM;Resnick MD;. Title: Protective factors and suicide risk in adolescents with a history of sexual abuse.. Journal Name: Journal of Pediatrics. Year: 2007 Nov	Direct link not investigated.
732	Authors: Tyler KA;Whitback LB;Hoyt VR;Johnson KD;. Title: Self-Mutilation and Homeless Youth: The Role of Family Abuse, Street Experiences, and Mental Disorders. Journal Name: . Year: 2003	Too narrow a population.
733	Authors: Sigfusdottir ;Asgeirsdottir BB;Gudjonsson GH;Sigurdsson JF;. Title: A model of sexual abuse's effects on suicidal behavior and delinquency: The role of emotions as mediating factors.. Journal Name: Journal of Youth and Adolescence. Year: 2008 Jul	No direct relationship between abuse and self-harm investigated.
734	Authors: Brodsky BS;Stanley B;. Title: Adverse childhood experiences and suicidal behavior.. Journal Name: Psychiatric Clinics of North America. Year: 2008 Jun	Literature review.
735	Authors: Darche MA;. Title: Psychological factors differentiating self-mutilating and non-self-mutilating adolescent inpatient females. Journal Name: Psychiatric Hospital. Year: 1990	Too specific a population.
736	Authors: Afifi TO;Enns MW;Cox BJ;Asmundson GJ;Stein MB;Sareen J;. Title: Population attributable fractions of psychiatric disorders and suicide ideation and attempts associated with adverse childhood experiences. Journal Name: American Journal of Public Health. Year: 2008 May	This is an adult study.

## When to suspect child maltreatment

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### 7.2.2 Abdominal pain

Reference	Bibliographic information	Reason For Rejecting
741	Title: Morbidities associated with bullying behaviors in adolescents. School based study of American adolescents Authors: Srabstein JC; Journal: International Journal of Adolescent Medicine and Health Year: - 32676 Oct	This is not about child maltreatment.
742	Title: Recurrent abdominal pain in children: A review of psychological factors and treatment Authors: Scharff L; Journal: Clinical Psychology Review Year: 1997	This is a literature review.
743	Title: Chronic abdominal pain in children Authors: Berger MY; Journal: British Medical Journal Year: 2007	This paper is an education article.
744	Title: Do bullied children get ill, or do ill children get bullied? A prospective cohort study on the relationship between bullying and health-related symptoms Authors: Fekkes M; Journal: Pediatrics Year: 2006 May	This is about peer bullying.
745	Title: Family background and sexual abuse associated with somatization Authors: Kinzl JF; Journal: Psychotherapy and Psychosomatics Year: 1995	This is an adult study.
746	Title: Recurrent abdominal pain in childhood Authors: Plunkett A; Journal: Journal of the Royal Society of Medicine Year: 2005	This is not about child maltreatment.
747	Title: Psychological problems in children with abdominal pain Authors: Raymer D; Journal: Lancet Year: 1984 Feb 25	This is not about child maltreatment.
748	Authors: El-Metwally A;Halder S;Thompson D;Macfarlane GJ;Jones GT;. Title: Predictors of abdominal pain in schoolchildren: a 4-year population-based prospective study. Journal Name: Archives of Disease in Childhood. Year: 2007 Dec	No association investigated between abdominal pain and maltreatment.
749	Authors: McOmber ME;Shulman RJ;. Title: Recurrent abdominal pain and irritable bowel syndrome in children.. Journal Name: Current Opinion in Pediatrics. Year: 2007 Oct	Not primary research.

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### 7.2.3 Disturbances in eating and feeding behaviour

Reference	Bibliographic information	Reason for rejecting study
750	Authors: Horesh N;Apter A;Lepkifker E;Ratzoni G;Weizmann R;Tyano S;. Title: Life events and severe anorexia nervosa in adolescence. Journal Name: Acta Psychiatrica Scandinavica. Year: 1995 Jan	This paper discusses life events but does not give particular information about child maltreatment.
751	Authors: Favaro A;Dalle GR;Santonastaso P;. Title: Impact of a history of physical and sexual abuse in eating disordered and asymptomatic subjects. Journal Name: Acta Psychiatrica Scandinavica. Year: 1998	Predominantly adults in this study and no separate data on under-18s.
752	Authors: Pope HG;Hudson JI;. Title: Is childhood sexual abuse a risk factor for bulimia nervosa?. Journal Name: American Journal of Psychiatry. Year: 1992 Apr	Non-systematic review. Age of patients in studies not stated.
753	Authors: French SA;Story M;Downes B;Resnick MD;Blum RW;. Title: Frequent dieting among adolescents: psychosocial and health behavior correlates. Journal Name: American Journal of Public Health. Year: 1995 May	This study does not address items specific to child maltreatment.
754	Authors: Brown L;. Title: Child physical and sexual abuse and eating disorders: a review of the links and personal comments on the treatment process.. Journal Name: Australian and New Zealand Journal of Psychiatry. Year: 1997 Apr	This is a literature review.
755	Authors: Ball K;Kenardy J;Lee C;. Title: Relationships between disordered eating and unwanted sexual experiences: A review.. Journal Name: Australian Psychologist. Year: 1999 Nov	This is a non-systematic review of predominantly adult studies.
299	Authors: Allison KC;Grilo CM;Masheb RM;Stunkard AJ;. Title: High self-reported rates of neglect and emotional abuse, by persons with binge eating disorder and night eating syndrome. Journal Name: Behaviour Research and Therapy. Year: 2007	This is an adult study.
756	Authors: Waller G;. Title: Sexual abuse as a factor in eating disorders.. Journal Name: British Journal of Psychiatry. Year: 1991 Nov	Age of study participants not stated.
757	Authors: Vize CM;Cooper PJ;. Title: Sexual abuse in patients with eating disorder, patients with depression, and normal controls. A comparative study. Journal Name: British Journal of Psychiatry. Year: 1995 Jul	This is an adult study.
330	Authors: Van Gerko K;Hughes ML;Hamill M;Waller G;. Title: Reported childhood sexual abuse and eating-disordered cognitions and behaviors. Journal Name: Child Abuse and Neglect. Year: 2005	This is an adult study.
758	Authors: Carter JC;Bewell C;Blackmore E;Woodside DB;. Title: The impact of childhood sexual abuse in anorexia nervosa. Journal Name: Child Abuse and Neglect. Year: 2006 Mar	This is an adult study.
759	Authors: Singer M;Nutter L;White W;Song L;. Title: Problem behaviors, substance abuse and sexual abuse in psychiatrically hospitalized adolescents with bulimia nervosa. Journal Name: Child and Adolescent Social Work Journal. Year: 1993 Jun	This study is in a psychiatric sample - no controls from general population.
760	Authors: Douzinas N;Fornari V;Goodman B;Sitnick T;. Title: Eating disorders and abuse. Journal Name: Child and Adolescent Psychiatric Clinics of North America. Year: 1994 Oct	Non-systematic review. Age of patients in studies not stated.
761	Authors: Littleton HL;Ollendick T;. Title: Negative body image and disordered eating behavior in children and adolescents: what places youth at risk and how can these problems be prevented?. Journal Name: Clinical Child and Family Psychology Review. Year: 2003 Mar	This is a literature review.
319	Authors: Rome ES;. Title: Eating disorders: Uncovering a history of childhood abuse?. Journal Name: . Year: 2004	This is commentary.

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Reference	Bibliographic information	Reason for rejecting study
762	Authors: Ono Y;Berger D;Saito S;Takahashi Y;Kuboki T;Ishikawa Y;Tezuka I;Nakamura K;Suematsu H;Asai M;. Title: Relationship of childhood abuse to psychiatric distress, social adjustment, and eating disorder severity in Japanese bulimics. Journal Name: European Eating Disorders Review. Year: 1996	This is an adult study.
763	Authors: Schmidt U;Humfress H;Treasure J;. Title: The role of general family environment and sexual and physical abuse in the origins of eating disorders. Journal Name: European Eating Disorders Review. Year: 1997	This is a literature review.
364	Authors: Zlotnick C;Hohlstein LA;Shea MT;Pearlstein T;Recupero P;Bidadi K;. Title: The relationship between sexual abuse and eating pathology. Journal Name: International Journal of Eating Disorders. Year: 1996	This is an adult study.
348	Authors: Stice E;Agras WS;Hammer LD;. Title: Risk factors for the emergence of childhood eating disturbances: a five-year prospective study. Journal Name: International Journal of Eating Disorders. Year: 1999 May	This study does not address child maltreatment.
339	Authors: Wonderlich S;Crosby R;Mitchell J;Thompson K;Redlin J;Demuth G;Smyth J;. Title: Pathways mediating sexual abuse and eating disturbance in children. Journal Name: International Journal of Eating Disorders. Year: 2001 Apr	Same data as 764 but emphasis on mediating factors.
357	Authors: Fonseca H;Ireland M;Resnick MD;. Title: Familial correlates of extreme weight control behaviors among adolescents. Journal Name: International Journal of Eating Disorders. Year: 2002 Dec	Weight-control behaviours (including exercise) all considered together
765	Authors: Tarren-Sweeney M;. Title: Patterns of aberrant eating among pre-adolescent children in foster care. Journal Name: Journal of Abnormal Child Psychology. Year: 2006 Oct	This study is of children in care implying that abuse was past and not current.
766	Authors: Bryant-Waugh R;Lask B;. Title: Eating disorders in children.. Journal Name: Journal of Child Psychology and Psychiatry and Allied Disciplines. Year: 1995 Feb	This is a literature review.
767	Authors: Wonderlich SA;Brewerton TD;Jocic Z;Dansky BS;Abbott DW;. Title: Relationship of childhood sexual abuse and eating disorders.. Journal Name: Journal of the American Academy of Child and Adolescent Psychiatry. Year: 1997 Aug	Does not specifically address eating disorders in children.
768	Authors: Gustafson TB;Sarwer DB;. Title: Childhood sexual abuse and obesity.. Journal Name: Obesity Reviews. Year: 2004 Aug	Although a systematic review, this study does not delineate studies in children.
769	Authors: Dietrich KN;Starr RH;Weisfeld GE;. Title: Infant maltreatment: caretaker-infant interaction and developmental consequences at different levels of parenting failure. Journal Name: Pediatrics. Year: 1983 Oct	This study is not about eating or feeding behaviours.
770	Authors: Noll JG;Zeller MH;Trickett PK;Putnam FW;. Title: Obesity risk for female victims of childhood sexual abuse: a prospective study. Journal Name: Pediatrics. Year: 2007 Jul	This is about obesity and not about eating and feeding behaviours.
771	Authors: de Groot J;Rodin GM;. Title: The relationship between eating disorders and childhood trauma. Journal Name: Psychiatric Annals. Year: 1999 Apr	This is a literature review.
772	Authors: Tice L;Hall RC;Beresford TP;Quinones J;Hall AK;. Title: Sexual abuse in patients with eating disorders. Journal Name: Psychiatric Medicine. Year: 1989	This is an adult study.
773	Authors: Nagata T;Kiriike N;Iketani T;Kawarada Y;Tanaka H;. Title: History of childhood sexual or physical abuse in Japanese patients with eating disorders: relationship with dissociation and impulsive behaviours. Journal Name: Psychological Medicine. Year: 1999 Jul	This is an adult study.

## Excluded studies: Emotional, behavioural, interpersonal and social functioning

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<b>Reference</b>	<b>Bibliographic information</b>	<b>Reason for rejecting study</b>
774	Authors: Baldo TD;Baldo AJ;. Title: Intrafamilial assaults, disturbed eating behaviors, and further victimization. Journal Name: Psychological Reports. Year: 1996 Dec	This is an adult study.
775	Authors: Montirosso R;. Title: Feeding disorders of infancy and early childhood: A review. Journal Name: SAGGI - Neuropsicologia Infantile Psicopedagogia Riabilitazione. Year: 2001	Unable to obtain article.
646	Authors: Berard RM;Boermeester F;. Title: Sexual abuse in adolescents--data from a psychiatric treatment centre for adolescents. Journal Name: South African Medical Journal. Year: 1999	This study does not discuss eating or feeding behaviours.

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### 7.2.4 Head-banging and body rocking

Reference	Bibliographic information	Reason for rejecting study
777	Authors: Talvik I;Mannamaa M;Juri P;Leito K;Poder H;Hamarik M;Kool P;Talvik T;. Title: Outcome of infants with inflicted traumatic brain injury (shaken baby syndrome) in Estonia. Journal Name: Acta Paediatrica. Year: 2007	This study does not address rocking or head-banging.
778	Authors: Bergman AJ;Wolfson MA;Walker EF;. Title: Neuromotor functioning and behavior problems in children at risk for psychopathology. Journal Name: Journal of Abnormal Child Psychology. Year: 1997	This study does not address head-banging or rocking.
779	Authors: Akuffo EO;Sylvester PE;. Title: Head injury and mental handicap. Journal Name: Journal of the Royal Society of Medicine. Year: 1983	This study does not address child maltreatment, head-banging or rocking.
780	Authors: Desai P;Talwar D;. Title: Nonepileptic events in normal and neurologically handicapped children: A video-EEG study. Journal Name: Pediatric Neurology. Year: 1992	This study does not address child maltreatment.
781	Authors: Troster H;. Title: Movement stereotypies and self-injurious behaviors in nondisabled children. Journal Name: Zeitschrift fur Entwicklungspsychologie und Padagogische Psychologie. Year: 1992	This study uses the same data as 782.

### 7.2.5 Wetting and soiling

Reference	Bibliographic information	Reason for rejecting study
783	Authors: Boyle M;Giffen A;Fitzhardinge P;. Title: The very low birthweight infant: impact on parents during the pre-school years. Journal Name: Early Human Development. Year: 1977 Oct	This is not about child maltreatment.
784	Authors: Dubowitz H;Black M;Harrington D;Verschoore A;. Title: A follow-up study of behavior problems associated with child sexual abuse. Journal Name: Child Abuse and Neglect. Year: 1993 Nov	No info on wetting or soiling.
785	Authors: Lacey SR;Cooper C;Runyan DK;Azizkhan RG;. Title: Munchausen syndrome by proxy: patterns of presentation to pediatric surgeons. Journal Name: Journal of Pediatric Surgery. Year: 1993 Jun	This study was ordered in case of relevance to FII review but now excluded because it's a small case series (n = 10)
786	Authors: Linna SL;Moilanen I;Keistinen H;Ernvall ML;. Title: Prevalence of psychosomatic symptoms in children. Journal Name: Psychotherapy and Psychosomatics. Year: 1991	Not about child maltreatment.
599	Authors: Maddocks A;Griffiths L;Antao V;. Title: Detecting child sexual abuse in general practice: A retrospective case- control study from Wales. Journal Name: Scandinavian Journal of Primary Health Care. Year: 1999	No data on soiling or bed wetting.
787	Authors: Mannarino AP;Cohen JA;. Title: A clinical-demographic study of sexually abused children. Journal Name: Child Abuse and Neglect. Year: 1986	Only 45 children in study.
788	Authors: Martinez-Roig A;Domingo-Salvany F;Llorens-Terol J;Ibanez-Cacho JM;. Title: Psychologic implications of the maltreated-child syndrome. Journal Name: Child Abuse and Neglect. Year: 1983	No details given on nature of regression of body functions (n = 13/97 abused children).
789	Authors: Morrow J;Yeager CA;Lewis DO;. Title: Encopresis and sexual abuse in a sample of boys in residential treatment.. Journal Name: Child Abuse and Neglect. Year: 1997 Jan	There were only 9 males in the study with encopresis.
790	Authors: Pratten AR;Sluckin A;. Title: Child abuse and encopresis. Journal Name: Midwife Health Visitor and Community Nurse. Year: 1985	This is an educational article with one case report.
791	Authors: Rimsza ME;Berg RA;Locke C;. Title: Sexual abuse: somatic and emotional reactions. Journal Name: Child Abuse and Neglect. Year: 1988	This study does not address wetting or soiling
792	Authors: Talley NJ;Fett SL;Zinsmeister AR;. Title: Self-reported abuse and gastrointestinal disease in outpatients: Association with irritable bowel-type symptoms. Journal Name: American Journal of Gastroenterology. Year: 1995	This is an adult study.
793	Authors: Thompson RW;Authier K;Ruma P;. Title: Behavior problems of sexually abused children in foster care: A preliminary study. Journal Name: Journal of Child Sexual Abuse. Year: 1994	This study does not contain information on wetting or soiling.
794	Authors: Warlick CA;Mathews R;Gerson AC;. Title: Keeping childhood sexual abuse on the urologic radar screen. Journal Name: Urology. Year: 2005	This is not primary research.
795	Authors: Werry JS;. Title: Enuresis: a psychosomatic entity?. Journal Name: Canadian Medical Association Journal. Year: 1967	This is a literature review.
796	Authors: Wolters WH;. Title: Encopresis. Journal Name: Psychotherapy and Psychosomatics. Year: 1971	This is a literature review with no specific mention of child maltreatment.
797	Authors: Wolters WH;. Title: The influence of environmental factors on encopretic children. Journal Name: Acta Paedopsychiatrica. Year: 1978 May	There were no confirmed cases of abuse in this study.

## When to suspect child maltreatment

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Reference	Bibliographic information	Reason for rejecting study
681	Authors: Toktamis A;Demirel Y;Ozkan KU;Garipardic M;Gozukucuk A;Nur N;. Title: associated factors of day wetting and combined day and night wetting. Journal Name: Internationalis. Year: 2008	Prevalence and Urologia This study is not about maltreatment.
681	Authors: Toktamis A;Demirel Y;Ozkan KU;Garipardic M;Gozukucuk A;Nur N;. Title: associated factors of day wetting and combined day and night wetting. Journal Name: Internationalis. Year: 2008	Prevalence and Urologia This study is not about maltreatment.

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## 7.2.6 Sexualised behaviour

Reference	Bibliographic information	Reason for rejecting study
592	Authors: Bagley C;Shewchuk-Dann D;. Title: Characteristics of 60 children and adolescents who have a history of sexual assault against others: Evidence from a controlled study. Journal Name: Journal of Child and Youth Care. Year: 1991	This study is does not address the question.
798	Authors: Bagley C;. Title: Child sexual abuse and juvenile prostitution: a commentary on the Badgley Report on sexual offences against children and youth. Journal Name: Canadian Journal of Public Health. Year: 1985 Jan	This is a commentary.
799	Authors: Bagley C;Young L;. Title: Juvenile prostitution and child sexual abuse: A controlled study. Journal Name: Canadian Journal of Community Mental Health. Year: 1987	This is an adult study.
800	Authors: Beitchman JH;Zucker KJ;Hood JE;daCosta GA;Akman D;. Title: A review of the short-term effects of child sexual abuse. Journal Name: Child Abuse and Neglect. Year: 1991	This is a literature review.
801	Authors: Black CA;DeBlassie RR;. Title: Sexual abuse in male children and adolescents: Indicators, effects, and treatments. Journal Name: Adolescence. Year: 1993 Spr	This is a literature review.
802	Authors: Cahill LT;Kaminer RK;Johnson PG;. Title: Developmental, cognitive, and behavioral sequelae of child abuse. Journal Name: Child and Adolescent Psychiatric Clinics of North America. Year: 1999 Oct	This is not primary research.
803	Authors: Chromy S;. Title: Sexually abused children who exhibit sexual behavior problems: Victimization characteristics.. Journal Name: Brief Treatment and Crisis Intervention. Year: 2007 Feb	There is no useful information on sexualised behaviour in non-abused children.
804	Authors: Cinq-Mars C;Wright J;Cyr M;McDuff P;. Title: Sexual At-Risk Behaviors of Sexually Abused Adolescent Girls. Journal Name: Journal of Child Sexual Abuse. Year: 2003	This paper is not about sexualised behaviours.
805	Authors: Coronges HK;. Title: Suicidal and aggressive behavior in seriously emotionally disturbed children from lower socioeconomic classes who have been sexually abused under the age of 13. Journal Name: Dissertation Abstracts International Section A: Humanities and Social Sciences. Year: 1999 Oct	
806	Authors: Csorba R;Aranyosi J;Borsos A;Balla L;Major T;Poka R;. Title: Characteristics of female child sexual abuse in Hungary between 1986 and 2001: a longitudinal, prospective study. Journal Name: European Journal of Obstetrics, Gynecology, and Reproductive Biology. Year: 2005 Jun 1	This is about incidence of child abuse
606	Authors: Deblinger E;McLeer SV;Atkins MS;Ralphe D;Foa E;. Title: Post-traumatic stress in sexually abused, physically abused, and nonabused children. Journal Name: Child Abuse and Neglect. Year: 1989	This study is included in 576
807	Authors: Edgardh K;Ormstad K;. Title: Prevalence and characteristics of sexual abuse in a national sample of Swedish seventeen-year-old boys and girls. Journal Name: Acta Paediatrica. Year: 2000	There is no information on sexualised behaviour.
808	Authors: Einbender AJ;Friedrich WN;. Title: Psychological functioning and behavior of sexually abused girls. Journal Name: Journal of Consulting and Clinical Psychology. Year: 1989 Feb	This is included in 576
809	Authors: Fergusson DM;Horwood LJ;Lynskey MT;. Title: Childhood sexual abuse, adolescent sexual behaviors and sexual revictimization. Journal Name: Child Abuse and Neglect. Year: 1997 Aug	This is an adult survey.
810	Authors: Ford ME;Linney JA;. Title: Comparative analysis of juvenile sexual offenders, violent nonsexual offenders, and status offenders. Journal Name: Journal of Interpersonal Violence. Year: 1995 Mar	This study is not in the population of interest.

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Reference	Bibliographic information	Reason for rejecting study
811	Authors: Foti SM;. Title: Child sexual abuse as a precursor to prostitution. Journal Name: Dissertation Abstracts International: Section B: Sciences and Engineering. Year: 1995 Feb	This is not in a general population.
812	Authors: Friedrich B;. Title: Correlates of sexual behavior in young children. Journal Name: Journal of Child Custody. Year: 2005	This is a literature review.
813	Authors: Friedrich WN;Beilke RL;Urquiza AJ;. Title: Behavior problems in young sexually abused boys: A comparison study. Journal Name: Journal of Interpersonal Violence. Year: 1988 Mar	This study is included in 576
814	Authors: Friedrich WN;Grambsch P;Damon L;Hewitt SK;Koverola C;Lang RA;Wolfe V;Broughton D;. Title: Child Sexual Behavior Inventory: Normative and clinical comparisons.. Journal Name: Psychological Assessment. Year: 1992 Sep	This is a validation study.
815	Authors: Friedrich WN;Fisher JL;Dittner CA;Acton R;Berliner L;Butler J;Damon L;Davies WH;Gray A;Wright J;. Title: Child Sexual Behavior Inventory: normative, psychiatric, and sexual abuse comparisons. Journal Name: Child Maltreatment. Year: 2001 Feb	This is a validation study.
816	Authors: Friedrich WN;. Title: Children and adolescents who are sexually abusive of others. Journal Name: Journal of the American Academy of Child and Adolescent Psychiatry. Year: 2000 Jul	This is a letter and case report.
817	Authors: Friedrich WN;Jaworski TM;Huxsahl JE;Bengtson BS;. Title: Dissociative and sexual behaviors in children and adolescents with sexual abuse and psychiatric histories. Journal Name: Journal of Interpersonal Violence. Year: 1997 Apr	The comparisons made in this study are psychiatric patients vs. non-psychiatric patients.
818	Authors: Friedrich WN;Gully KJ;Trane ST;. Title: Re: It is a mistake to conclude that sexual abuse and sexualized behavior are not related: a reply to Drach, Wientzen, and Ricci (2001). Journal Name: Child Abuse and Neglect. Year: 2005 Apr	This is a critique of a paper.
819	Authors: Friedrich WN;. Title: Sexual behavior in sexually abused children. Journal Name: New Directions for Mental Health Services. Year: 1991	This is a review article.
820	Authors: Friedrich WN;. Title: Sexual victimization and sexual behavior in children: a review of recent literature. Journal Name: Child Abuse and Neglect. Year: 1993 Jan	This is a literature review.
821	Authors: Fyson R;Eadie T;Cooke P;. Title: Adolescents with Learning Disabilities who Show Sexually Inappropriate or Abusive Behaviours: Development of a Research Study.. Journal Name: Child Abuse Review. Year: 2003	This paper is about the practicalities of setting up a study.
822	Authors: Gale J;Thompson RJ;Moran T;Sack WH;. Title: Sexual abuse in young children: its clinical presentation and characteristic patterns.[erratum appears in Child Abuse Negl 1989;13(3):444]. Journal Name: Child Abuse and Neglect. Year: 1988	This study is included in 576 and 823.
824	Authors: Gray A;Pithers WD;Busconi A;Houchens P;. Title: Developmental and etiological characteristics of children with sexual behavior problems: treatment implications.. Journal Name: Child Abuse and Neglect. Year: 1999 Jun	There is no comparison made between abused and non-abused children.
825	Authors: Green AH;. Title: Child maltreatment and its victims. A comparison of physical and sexual abuse.. Journal Name: Psychiatric Clinics of North America. Year: 1988 Dec	This is a review paper.
673	Authors: Green AH;. Title: Child sexual abuse: immediate and long-term effects and intervention. Journal Name: Journal of the American Academy of Child and Adolescent Psychiatry. Year: 1993 Sep	This is a literature review.

## Excluded studies: Emotional, behavioural, interpersonal and social functioning

Reference	Bibliographic information	Reason for rejecting study
826	Authors: Hebert M;Tremblay C;Parent N;Daignault IV;Piche C;. Title: Correlates of behavioral outcomes in sexually abused children. Journal Name: Journal of Family Violence. Year: 2006	There are no data in this paper on sexualised behaviours.
827	Authors: Herman-Giddens ME;Sandler AD;Friedman NE;. Title: Sexual precocity in girls. An association with sexual abuse?. Journal Name: American Journal of Diseases of Children. Year: 1988 Apr	This study discusses early development of secondary physical characteristics in abused girls.
828	Authors: Hibbard RA;Hartman GL;. Title: Behavioral problems in alleged sexual abuse victims. Journal Name: Child Abuse and Neglect. Year: 1992 Sep	The analysis is methodologically flawed.
829	Authors: Hirsch BC;. Title: A comparison of normal sexual development and sexual abuse in children: Review, critique, and recommendations for training. Journal Name: Dissertation Abstracts International: Section B: Sciences and Engineering. Year: 1999 Aug	
830	Authors: Holifield JE;Nelson WM;Hart KJ;. Title: MMPI profiles of sexually abused and nonabused outpatient adolescents.. Journal Name: Journal of Adolescent Research. Year: 2002 Mar	There are no data on sexualised behaviour.
657	Authors: Jeffrey TB;Jeffrey LK;. Title: Psychologic aspects of sexual abuse in adolescence. Journal Name: Current Opinion in Obstetrics and Gynecology. Year: 1991 Dec	This study contains no primary research.
831	Authors: Johnson TC;. Title: Child perpetrators--children who molest other children: preliminary findings. Journal Name: Child Abuse and Neglect. Year: 1988	This study is not about child maltreatment.
832	Authors: Johnson TC;Aoki WT;. Title: Sexual behaviors of latency age children in residential treatment. Journal Name: Residential Treatment for Children and Youth. Year: 1993	This study is not in a general population.
833	Authors: Katz-Plotkin S;. Title: Sexual victimization and its impact on children's sexual behavior and behavioral functioning. Journal Name: Dissertation Abstracts International. Year: 1991 Aug	
834	Authors: Kavanaugh AL;. Title: Behavioral sequelae that differentiate sexually abused from nonabused preschool children. Journal Name: Dissertation Abstracts International: Section B: Sciences and Engineering. Year: 2003 Jun	
835	Authors: Kelley SJ;. Title: Child sexual abuse: initial effects. Journal Name: Annual Review of Nursing Research. Year: 1995	This is a literature review.
836	Authors: Kisiel CL;Lyons JS;. Title: Dissociation as a mediator of psychopathology among sexually abused children and adolescents. Journal Name: American Journal of Psychiatry. Year: 2001 Jul	This study has no comparisons between the groups of interest on the outcomes of interest.
837	Authors: Knutson JF;. Title: Psychological characteristics of maltreated children: Putative risk factors and consequences. Journal Name: Annual Review of Psychology. Year: 1995	This is a literature review.
838	Authors: Kordich H;Mathews F;Pearce J;. Title: Factors associated with sexual behavior problems in young sexually abused children. Journal Name: Child Abuse and Neglect. Year: 1998	This is not a comparative study.
839	Authors: Krahe B;. Title: Sexual aggression among adolescents: Prevalence and predictors in a German sample. Journal Name: Psychology of Women Quarterly. Year: 1998 Dec	This is not about child maltreatment.
840	Authors: Leifer M;Shapiro JP;Martone MW;Kassem L;. Title: Rorschach assessment of psychological functioning in sexually abused girls. Journal Name: Journal of Personality Assessment. Year: 1991 Feb	This study does not report on sexualised behaviours as might be observed in a clinical context.
841	Authors: Letourneau EJ;Schoenwald SK;Sheidow AJ;. Title: Children and adolescents with sexual behavior problems. Journal Name: Child Maltreatment. Year: 2004 Feb	This study made no comparisons between abused and non-abused children.

## When to suspect child maltreatment

Reference	Bibliographic information	Reason for rejecting study
787	Authors: Mannarino AP;Cohen JA;. Title: A clinical-demographic study of sexually abused children. Journal Name: Child Abuse and Neglect. Year: 1986	This study is not about sexualised behaviour.
842	Authors: Manocha KF;Mezey G;. Title: British adolescents who sexually abuse: A descriptive study. Journal Name: Journal of Forensic Psychiatry. Year: 1998 Dec	This is a non-comparative study.
280	Authors: McLaren J;Brown RE;. Title: Childhood problems associated with abuse and neglect. Journal Name: Canada's Mental Health. Year: 1989 Sep	This is a literature review.
843	Authors: McMullen RJ;. Title: Youth prostitution: A balance of power?. Journal Name: International Journal of Offender rapy and Comparative Criminology. Year: 1986	This is a descriptive paper.
844	Authors: McNichol S;McGregor KJ;. Title: Exploring the link between sexualized behaviour and sexual abuse in a clinical setting.. Journal Name: Child Abuse Review. Year: 1999	There is no statistical investigation of association.
845	Authors: Pistole DR;Ornduff SR;. Title: TAT assessment of sexually abused girls: an analysis of manifest content. Journal Name: Journal of Personality Assessment. Year: 1994 Oct	This paper does not report clinically relevant outcomes.
846	Authors: Pratt HD;Greydanus DE;Patel DR;. Title: The adolescent sexual offender. Journal Name: Primary Care; Clinics in Office Practice. Year: 2007 Jun	There is no primary research in this paper
847	Authors: Raj A;Silverman JG;Amaro H;. Title: The relationship between sexual abuse and sexual risk among high school students: findings from the 1997 Massachusetts Youth Risk Behavior Survey. Journal Name: Maternal and Child Health Journal. Year: 2000 Jun	This is not a comparative study.
848	Authors: Righthand S;Welch C;. Title: Characteristics of youth who sexually offend. Journal Name: Journal of Child Sexual Abuse. Year: 2004	This is a literature review.
849	Authors: Roosa MW;Tein JY;Reinholtz C;Angelini PJ;. Title: The relationship of childhood sexual abuse to teenage pregnancy. Journal Name: Journal of Marriage and the Family. Year: 1997 Feb	This is a survey of adults.
850	Authors: Saewyc EM;Magee LL;Pettingell SE;. Title: Teenage pregnancy and associated risk behaviors among sexually abused adolescents. Journal Name: Perspectives on Sexual and Reproductive Health. Year: 2004 May	This is not a comparative study.
851	Authors: Seng MJ;. Title: Child sexual abuse and adolescent prostitution: a comparative analysis. Journal Name: Adolescence. Year: 1989	No comparisons of interest reported.
852	Authors: Shaw JA;Campo-Bowen AE;Applegate B;Perez D;Antoine LB;Hart EL;Lahey BB;Testa RJ;Devaney A;. Title: Young boys who commit serious sexual offenses: demographics, psychometrics, and phenomenology. Journal Name: Bulletin of the American Academy of Psychiatry and the Law. Year: 1993	This study is not in the population of interest.
853	Authors: Shrier D;Johnson RL;. Title: Sexual victimization of boys: an ongoing study of an adolescent medicine clinic population. Journal Name: Journal of the National Medical Association. Year: 1988 Nov	This paper is not about sexualised behaviour.
854	Authors: Silovsky JF;Niec L;. Title: Characteristics of young children with sexual behavior problems: a pilot study. Journal Name: Child Maltreatment. Year: 2002 Aug	This is not about child maltreatment.
855	Authors: Skuse D;Bentovim A;Hodges J;Stevenson J;Andreou C;Lanyado M;New M;Williams B;McMillan D;. Title: Risk factors for development of sexually abusive behaviour in sexually victimised adolescent boys: cross sectional study. Journal Name: British Medical Journal. Year: 1998 Jul 18	There are no outcomes of interest in this study.

## Excluded studies: Emotional, behavioural, interpersonal and social functioning

Reference	Bibliographic information	Reason for rejecting study
856	Authors: Steel JL;Herlitz CA;. Title: The association between childhood and adolescent sexual abuse and proxies for sexual risk behavior: a random sample of the general population of Sweden. Journal Name: Child Abuse and Neglect. Year: 2005 Oct	This is a survey of adults.
857	Authors: Storkamp BJ;. Title: The relationship between child sexual abuse and subsequent adolescent sexual behavior and pregnancy. Journal Name: Dissertation Abstracts International: Section B: Sciences and Engineering. Year: 1998 Sep	This is about later consequences of abuse.
858	Authors: Vizard E;Hickey N;French L;McCrary E;. Title: Children and adolescents who present with sexually abusive behaviour: A UK descriptive study. Journal Name: Journal of Forensic Psychiatry and Psychology. Year: 2007	This study contains no comparisons between abused and non-abused children.
593	Authors: White S;Halpin BM;Strom GA;Santilli G;. Title: Behavioral comparisons of young sexually abused, neglected, and nonreferred children. Journal Name: Journal of Clinical Child Psychology. Year: 1988 Mar	This study is included in 910 and 823.
859	Authors: Widom CS;Kuhns JB;. Title: Childhood victimization and subsequent risk for promiscuity, prostitution, and teenage pregnancy: a prospective study. Journal Name: American Journal of Public Health. Year: 1996 Nov	This is about consequences of abuse.
860	Authors: Worley KB;Church JK;. Title: When children sexually abuse other children. Journal Name: Journal of the Arkansas Medical Society. Year: 2007 Feb	There is no primary research in this paper.
861	Authors: Wyatt GE;. Title: The relationship between child sexual abuse and adolescent sexual functioning in Afro-American and white American women. Journal Name: Annals of the New York Academy of Sciences. Year: 1988	This is an adult survey.
862	Authors: Austin SB;Roberts AL;Corliss HL;Molnar BE;. Title: Sexual violence victimization history and sexual risk indicators in a community-based urban cohort of 'mostly heterosexual' and heterosexual young women. Journal Name: American Journal of Public Health. Year: 2008 Jun	Not about current maltreatment
863	Authors: Senn TE;Carey MP;Venable PA;. Title: Childhood and adolescent sexual abuse and subsequent sexual risk behavior: evidence from controlled studies, methodological critique, and suggestions for research. [115 refs]. Journal Name: Clinical Psychology Review. Year: 2008 Jun	Systematic review of adult studies.
864	Authors: Paluzzi P;Kahn A;. Title: The impact of child maltreatment and family violence on the sexual, reproductive, and parenting behaviors of young men. Journal Name: Prevention Researcher. Year: 2007	Not primary research.
865	Authors: Granero R;Poni ES;Sanchez Z;. Title: Sexuality among 7th, 8th and 9th grade students in the state of Lara, Venezuela. The Global School Health Survey, 2003-2004. Journal Name: Puerto Rico Health Sciences Journal. Year: 2007 Sep	Not about chld maltreatment

### 7.2.7 Runaway behaviour

Reference	Bibliographic information	Reason for rejecting study
866	Authors: Johnson R;Carter MM;. Title: Flight of the young: why children run away from their homes. Journal Name: Adolescence. Year: 1980	This is not primary research.
612	Authors: Tyler KA;. Title: Social and emotional outcomes of childhood sexual abuse: A review of recent research. Journal Name: Aggression and Violent Behavior. Year: 2002	This is not a systematic review.
867	Authors: Anooshian LJ;. Title: Violence and aggression in the lives of homeless children: A review. Journal Name: Aggression and Violent Behavior. Year: 2005	This is a literature review.
868	Authors: McCormack A;Janus MD;Burgess AW;. Title: Runaway youths and sexual victimization: gender differences in an adolescent runaway population. Journal Name: Child Abuse and Neglect. Year: 1986	The age range for this study was 15-20 years.
869	Authors: Swartz J;. Title: Runaways often sexually abused: symposium. Journal Name: CMAJ Canadian Medical Association Journal. Year: 1998 19	This is not primary research.
870	Authors: Pardeck JT;. Title: An exploration of child maltreatment among homeless families: Implications for family policy.. Journal Name: . Year: 2005 May	This study contains mostly adults and data for children are not discussed separately.
871	Authors: Kufeldt K;Nimmo M;. Title: Kids on the street they have something to say: Survey of runaway and homeless youth. Journal Name: Journal of Child Care. Year: 1987	Subjects are a subgroup of those in 872.
873	Authors: Savin-Williams RC;. Title: Verbal and physical abuse as stressors in the lives of lesbian, gay male, and bisexual youths: associations with school problems, running away, substance abuse, prostitution, and suicide. Journal Name: Journal of Consulting and Clinical Psychology. Year: 1994 Apr	This is not a systematic review.
874	Authors: Carlson BE;. Title: Adolescent observers of marital violence. Journal Name: Journal of Family Violence. Year: 1990 Dec	Not about runaway behaviour
875	Authors: Tyler KA;. Title: A qualitative study of early family histories and transitions of homeless youth. Journal Name: Journal of Interpersonal Violence. Year: 2006 Oct	The age range of study participants is 19-21
876	Authors: Kaufman JG;Widom CS;. Title: Childhood victimization, running away, and delinquency. Journal Name: Journal of Research in Crime and Delinquency. Year: 1999	This study focuses on delinquency.
877	Authors: McGuinness TM;Schneider K;. Title: Poverty, child maltreatment, and foster care. Journal Name: Journal of the American Psychiatric Nurses Association. Year: 2007	This study is not about runaway behaviour.
878	Authors: Aviles AM;Helfrich CA;. Title: Homeless youth: Causes, consequences and the role of occupational therapy. Journal Name: Occupational Therapy in Health Care. Year: 2006	This is a literature review.
879	Authors: Carper JM;. Title: Emergencies in adolescents: runaways and father-daughter incest. Journal Name: Pediatric Clinics of North America. Year: 1979 Nov	This is not primary research.
880	Authors: Cauce AM;Tyler KA;Whitbeck LB;. Title: Maltreatment and victimization in homeless adolescents: out of the frying pan and into the fire. Journal Name: Prevention Researcher. Year: 2004	This is not primary research.

# 8 Parent–child interactions

Reference	Bibliographic information	Reason for rejecting study
911	Authors: Alessandri SM;. Title: Mother-child interactional correlates of maltreated and nonmaltreated children's play behavior. Journal Name: Development and Psychopathology. Year: 1992	Does not investigate abusive parent–child interactions.
912	Authors: Cerezo MA;D'Ocon A;Dolz L;. Title: Mother-child interactive patterns in abusive families versus nonabusive families: an observational study. Journal Name: Child Abuse and Neglect. Year: 1996 Jul	Does not investigate abusive parent–child interactions.
913	Authors: DiLillo D;Tremblay GC;Peterson L;. Title: Linking childhood sexual abuse and abusive parenting: the mediating role of maternal anger. Journal Name: Child Abuse and Neglect. Year: 2000 Jun	Investigates abuse potential in adulthood.
895	Authors: O'Leary SG;Slep AM;Reid MJ;. Title: A longitudinal study of mothers' overreactive discipline and toddlers' externalizing behavior. Journal Name: Journal of Abnormal Child Psychology. Year: 1999 Oct	About parenting styles and not maltreatment.
914	Authors: Pittman JF;Buckley RR;. Title: Comparing maltreating fathers and mothers in terms of personal distress, interpersonal functioning, and perceptions of family climate.. Journal Name: Child Abuse and Neglect. Year: 2006 May	Investigates parents' reactions to maltreatment of their children.
662	Authors: Rodriguez CM;Richardson MJ;. Title: Stress and anger as contextual factors and preexisting cognitive schemas: predicting parental child maltreatment risk. Journal Name: Child Maltreatment. Year: 2007	Not relevant. Risk factors for maltreatment
915	Authors: Sachs B;Hall LA;. Title: Maladaptive mother-child relationships: a pilot study. Journal Name: Public Health Nursing. Year: 1991 Dec	Study of risk factors
896	Authors: Shipman K;Schneider R;Sims C;. Title: Emotion socialization in maltreating and nonmaltreating mother-child dyads: implications for children's adjustment. Journal Name: Journal of Clinical Child and Adolescent Psychology. Year: 2005 Sep	
916	Authors: Shipman K;Schneider R;Sims C;. Title: Emotion socialization in maltreating and nonmaltreating mother-child dyads: implications for children's adjustment. Journal Name: Journal of Clinical Child and Adolescent Psychology. Year: 2005 Sep	See emotion dysregulation.
917	Authors: Shipman KL;Schneider R;Fitzgerald MM;Sims C;Swisher L;Edwards A;. Title: Maternal emotion socialization in maltreating and non-maltreating families: Implications for children's emotion regulation.. Journal Name: Social Development. Year: 2007 May	See emotion dysregulation.
897	Authors: Shipman KL;Zeman J;. Title: Socialization of children's emotion regulation in mother-child dyads: a developmental psychopathology perspective. Journal Name: Development and Psychopathology. Year: 2001	Not relevant.
894	Authors: Spilsbury JC;Kahana S;Drotar D;Creeden R;Flannery DJ;Friedman S;. Title: Profiles of behavioral problems in children who witness domestic violence. Journal Name: Violence and Victims. Year: 2008	No comparison group.

## When to suspect child maltreatment

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Reference	Bibliographic information	Reason for rejecting study
898	Authors: Timmer SG;Borrego J;Urquiza AJ;. Title: Antecedents of coercive interactions in physically abusive mother-child dyads. Journal Name: Journal of Interpersonal Violence. Year: 2002	Data collected in role-play scenario.
899	Authors: Valentino K;Cicchetti D;Toth SL;Rogosch FA;. Title: Mother-child play and emerging social behaviors among infants from maltreating families. Journal Name: Developmental Psychology. Year: 2006 May	Effect of maltreating family environment on infants' social interaction
900	Authors: van Zeijl J;Mesman J;Stolk MN;Alink LR;van Ijzendoorn MH;Bakermans-Kranenburg MJ;Juffer F;Koot HM;. Title: Differential susceptibility to discipline: the moderating effect of child temperament on the association between maternal discipline and early childhood externalizing problems. Journal Name: Journal of Family Psychology. Year: 2007 Dec	Not about child maltreatment
901	Authors: Vostanis P;Graves A;Meltzer H;Goodman R;Jenkins R;Brugha T;. Title: Relationship between parental psychopathology, parenting strategies and child mental health: Findings from the GB national study. Journal Name: Social Psychiatry and Psychiatric Epidemiology. Year: 2006	Not about child maltreatment.
902	Authors: Wark MJ;Kruczek T;Boley A;. Title: Emotional neglect and family structure: Impact on student functioning. Journal Name: Child Abuse and Neglect. Year: 2003	Adult study
903	Authors: White MA;Grzankowski J;Paavilainen E;stedt-Kurki P;Paunonen-Ilmonen M;. Title: Family dynamics and child abuse and neglect in three Finnish communities. Journal Name: Issues in Mental Health Nursing. Year: 2003 Sep	About family dynamics, not maltreatment.

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12. Johnson DL. Role of apnea in nonaccidental head injury. *Pediatric Neurosurgery* 1995; 23:(6)305-10.
13. Dias MS. Serial radiography in the infant shaken impact syndrome. *Pediatric Neurosurgery* 1998; 29:(2)77-85.
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## When to suspect child maltreatment

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