

References to SIDS case-control studies from 1985 to 2012

Epidemiological studies with parental contact

For the ISPID website (www.ispid.org)

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Aim

This is an attempt to provide peer-reviewed references for all major SIDS case-control studies over the last 27 years. The listing will be first passed to the ISPID board and then the ISPID members for input before the table and associated references are put on to the ISPID website.

Inclusion criteria

The inclusion criteria for the studies were that they should be epidemiological in nature, include parental contact (interviews or postal questionnaire) and have started data collection on or after 1985. This is to focus on both that the main SIDS risk factors are centred in the infant sleeping environment (hence the need for parental input) and the fact that the rapid decline in deaths began from 1989 onwards. The inclusion criteria for the individual references are not just that they should relate to the study but also to the epidemiological findings and be written in English. Some studies have extended the period of observation from the initial manuscript but have essentially been treated as the same study. The studies are described in terms of the lead author from the first publication.

Exclusion criteria

Cohort studies (unless embedded with a clearly defined case-controls study), case-reference studies and case-control studies that do not include a parental interview or parental postal questionnaire have not been included.

The Search

The search was initially based on my PhD submitted in 1998 and supplemented over the years as and when I came across further case-control studies. In October 2011 a search of *Pubmed* using the terms 'SIDS' and 'case control' produced 632 references which I cross-referenced with the studies I had already found. This yielded an additional 22 references for studies I had already found along with 1 eligible and 7 ineligible studies. A further search was conducted in February 2012 which produced 637 references but none of the 5 more recent references were epidemiological studies.

Results

From the work conducted on the PhD and supplemental search I found 68 studies. Of these 19 were cohort studies¹⁻¹⁹ and 3 were case-reference studies²⁰⁻²² so have been excluded. A further 11 were case-controls²³⁻³³ studies without parental contact, so have also been excluded. Thus 35 case-control studies that have collected data on or after 1985 with parental contact were found. The 35 studies span 17 countries and families of 5283 SIDS victims and 22,766 surviving control infants have helped collate this data. Below are listed the studies and the 144 references to these studies

Epidemiological SIDS case-control studies (with parental contact) from 1985 to 2010						
No	First author	Place of Study	Period	SIDS	Controls	Papers
1	Beal SM	South Australia	1985-89	100	220	1
2	Flahault A	France	1986	135	401	1
3	Lee N	Hong Kong	1986-87	16	32	1
4	Kelmanson IA	St Petersburg, Russia	1986-91	48	48	1
5	Schlaud M	Lower Saxony, Germany	1986-92	140	688	4
6	Bartholomew A	South East Scotland	1987	79	79	1
7	Fleming PJ (1)	Avon & Somerset, England	1987-89 ¹	72	144	6
8	Mitchell EA (1)	New Zealand	1987-90	485	1800	46
9	Gormally S	Ireland	1987-91	97	98	2
10	Schoendorf KC	US (multi-centre)	1988	435	6098	1
11	Dwyer T	Tasmania, Australia	1988-90	23	2597 ²	2
12	Ponsonby A-L	Tasmania, Australia	1988-91	62	62	4
13	Klonoff-Cohen H	California, US	1989-92	200	200	6
14	Wigfield R	Avon & Somerset, England	1990-91	32	222 ³	2
15	Mitchell EA (2)	New Zealand	1991-93	174	1077	6
16	Taylor J	Washington, US	1992-94	66	142	1
17	Øyen N	Denmark, Norway & Sweden	1992-95	244	869	10
18	Brooke H	Scotland	1992-95	201	276	1
19	Iyasu S	North American Plains ⁴ , US	1992-96	33	66	1
20	Carpenter	Europe (multi-centre)	1992-96	745	2411	1
21	Schellscheidt J	Munster & Detmold, Germany	1993-94	59	156	1
22	Fleming PJ (2)	England (multi-centre)	1993-96	325	1300	11
23	Hauck FR	Chicago, US	1993-96	260	260	5
24	McGarvey	Ireland	1994-98 ⁵	203	622	5
25	L'Hoir M	Netherlands	1995-96	73	146	3
26	Jonville-Béra A-P	France (multi-centre)	1995-97	114 ⁶	341	1
27	Törő K	Budapest, Hungary	1996-98	18	74	1
28	Tappin D	Scotland	1996-2000	123	263	2
29	Pinho AP (1)	Porto Algere, Brazil	1996-2000	39	117	1
30	Li D-K	California, US	1997-2000	185	312	3
31	Bubnaitienė V	Lithuania	1997-2000	35	145	1
32	Findeisen M	Germany (multi-centre)	1998-2001	333	998	9
33	Nelson T	Hong Kong	1999-2003	16	223	1
34	Pinho AP (2)	Porto Algere, Brazil	2001-2003	33	192 ⁷	1
35	Blair PS	South-West Region, England	2003-2006	80	87 ⁸	1

1 included further observations from February 1990 to June 1991
2 A case-control study nested in a cohort study (for one of the papers 213 control infants were used)
3 Controls included 70 matched controls and 152 population based controls
4 North American Plains includes South Dakota, North Dakota, Nebraska and Iowa
5 For some papers the study period (and thus number of cases and controls) has been increased
6 Only 90 had autopsies and were categorised as SIDS, 24 were categorised as SUD
7 Includes a further group of 192 controls who died of explained causes
8 Includes a further group of 82 high risk controls

References

Study 1

- i) Beal S, Porter C. Sudden infant death syndrome related to climate. *Acta Paediatr Scand* 1991;80:278-287.

Study 2

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Study 4

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