Systematic review of the occurrence of infantile colic in the community

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Systematic review of the occurrence of infantile colic in the community

P L B J Lucassen, W J J Assendelft, J Th M van Eijk, J W Gubbels, A C Douwes, W J van Geldrop

Abstract
Aims—To assess the occurrence of infantile colic in the community and the need for professional help; and to study the influences of potential determinants of infantile colic.

Methods—Surveys were identified by a systematic search in Medline (1966–98) and Embase (1988–98). Retrieved publications were checked for references. Studies selected were community based, prospective, and retrospective surveys on the occurrence of infantile colic published in English, German, French, or Dutch. Occurrence rates were calculated as percentages. Methodological quality of the surveys was assessed by two assessors independently with a standardised criteria list containing items on method of data gathering, definition of colic, and drop out rate.

Results—Fifteen community based surveys were identified. The methodological quality varied considerably and was generally low. Even the two most methodologically sound prospective studies yielded widely varying cumulative incidence rates of 5–19%. Referral rates or the need to seek help because of crying were consistently lower than occurrence rates for prolonged crying as such. Gender, socioeconomic class, type of feeding, family history of atopy, smoking, and parental smoking were not shown to be associated with colic.

Conclusion—Occurrence rates of infantile colic vary greatly according to methodological quality. A considerable number of parents reporting prolonged crying do not seek or need professional help.

Keywords: infantile colic; community; incidence

The reported occurrence rates of infantile colic vary from 10% to 40%. Many reviews only use data from selected populations. Differences may reflect differences in definitions, methods of data gathering, and study design.

In epidemiological and more clinically oriented studies, infantile colic has been defined in different ways but prolonged crying is an almost constant feature. However, studies define normal and prolonged crying differently. The most commonly accepted is the “rule of 3”: crying during at least three hours per day on at least three days of at least three weeks. The first two features originated from a description by Wessel and colleagues. The third is often not established because of problems in documenting the condition. Other time criteria that have been used are: severe crying for several hours per day, crying for more than two hours per day, and overall duration of more than three hours per day.

Studies not using an indication of crying time define infantile colic as unexplained crying, crying seen as a problem, or crying with which parents felt they could no longer cope and for which they sought help. Other sources of variability are the presence of symptoms possibly of gastrointestinal origin (a high pitched pain cry, flatulence, and difficulties with the passage of stools) and the emphasis on consolability. Apart from these differences, studies generally agree that infants with colic are healthy, thriving, and below 6 months of age. The foregoing could be congruent with two underlying concepts. Firstly, infantile colic is conceived as one distinct entity with prolonged crying as the main symptom and several optional additional features. Secondly, infantile colic is conceived as a collection of different entities, each defined separately.

Different methods have been used to establish the diagnosis, including audiotape recordings, parental diaries, the Crying Patterns Questionnaire (CPQ), non-specified questionnaires, and interviews, personal or by telephone. Crying has been classified in various ways, such as amount of crying in hours per day or answers to a broad question on whether the baby cried a lot. Moreover, some studies assessed crying prospectively with an inception early in life, whereas others used a retrospective data gathering method, sometimes up to 14–28 months.

To evaluate the impact of infantile colic on health care and to plan research on infantile colic, exact data on its occurrence are needed. We aimed to perform a systematic review of community based surveys to assess the occurrence of infantile colic and to assess the need for professional help related to study quality (method of data gathering, definition of infantile colic, and drop out rate). We also aimed to assess occurrence rates according to source of recruitment. Finally, we planned to assess the influence of prognostic factors such as gender and socioeconomic class, and aetiologic factors such as type of feeding, parental smoking, and family history of atopy on estimates of occurrence of infantile colic.

Methods
SELECTION OF STUDIES
In March 1998 we performed a Medline (1966–98) and an Embase (1988–98) search with the following search strategy: “colic” and
**Infantile colic in the community**

### Table 1 Community based prospective studies with occurrence rates for infantile colic, ranked according to methodological quality

<table>
<thead>
<tr>
<th>First author</th>
<th>Source of study population</th>
<th>Definition of infantile colic as used for occurrence estimate</th>
<th>Period of data reporting on occurrence</th>
<th>Eligible (n)</th>
<th>Recruited (n)</th>
<th>Completed study (n)</th>
<th>Occurrence of infantile colic (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canivet‡‡‡</td>
<td>Newborns from hospital</td>
<td>1 Wessel’s criteria or medication prescribed</td>
<td>0–3 months</td>
<td>409</td>
<td>209</td>
<td>152</td>
<td>1%</td>
</tr>
<tr>
<td>Sweden</td>
<td>Infants followed from birth to 12 weeks</td>
<td>2 Wessel’s criteria without the 3 weeks criterion</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Høgdal</td>
<td>Weekly diary for 1 day, questionnaire (crying a problem?)</td>
<td>3 Crying/screaming &gt;1 hour/day during 4 days/week in one week</td>
<td>0–6 months</td>
<td>435</td>
<td>365</td>
<td>360</td>
<td>4%</td>
</tr>
<tr>
<td>Finland</td>
<td>Infants followed from birth to 6 months</td>
<td>4 Crying is a problem for the mother Unexplained paroxysms of crying or fussing for at least 90 minutes each day for a minimum of 6 of the preceding 7 days or periods lasting at least 3 hours a day in 3 of the preceding 7 days</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rautava‡‡‡</td>
<td>Structured telephone interviews at age 1–2–6 months</td>
<td>Unexplained prolonged crying</td>
<td></td>
<td>1269</td>
<td>1146</td>
<td>1019</td>
<td>26%</td>
</tr>
<tr>
<td>Rubini§</td>
<td>Newborns from hospital</td>
<td>Explanatory paroxysms of crying or fussing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Michelsson¹⁰</td>
<td>Well baby clinics</td>
<td>Crying with which mothers felt the need to seek help or Crying for more than 3 hours per day</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Finland</td>
<td>Infants under age 1 year</td>
<td>Questionnaire and 24-hour diary at arbitrary visit†</td>
<td>0–3 months</td>
<td>113</td>
<td>12%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rautava‡‡‡</td>
<td>Birth register</td>
<td>Questionnaire given at scheduled visit</td>
<td>0–3 months</td>
<td>1582</td>
<td>1443</td>
<td>1204</td>
<td>28%</td>
</tr>
<tr>
<td>Finland</td>
<td>Infants at age 3 months</td>
<td>5 item scale, ranging from no colic to a lot of colic; colic defined as “a lot of colic” and “quite a lot of colic”</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rinne††</td>
<td>Well baby clinics</td>
<td>Question: how much does the baby cry?</td>
<td>0–3 months</td>
<td>nr</td>
<td>nr</td>
<td>113</td>
<td>12%</td>
</tr>
<tr>
<td>Finland</td>
<td>Infants under age 1 year</td>
<td>Data on infants under 3 months crying more than 3 hours/day are given</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lehtonen¹²</td>
<td>Newborns from hospital</td>
<td>Paroxysms of crying for 3 or more hours per day, 3 days or more per week during at least 3 weeks</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Finland</td>
<td>Infants followed from birth to 3 months</td>
<td>Questionnaire given at birth to be returned at 3 months</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hide¹⁴</td>
<td>Birth register</td>
<td>Mother’s interpretation of the infant’s cry as colic</td>
<td>0–3 months</td>
<td>nr</td>
<td>nr</td>
<td>843</td>
<td>16%</td>
</tr>
<tr>
<td>UK</td>
<td>Infants followed from birth to 1 year Health visitors recorded data at 6–12–26–52 weeks</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*QS = quality score: range 0–6 (for details see table 3).†Data on infants younger than 3 months.
‡Study with prospective and retrospective part; only prospective data in table.
§nr = not reported.
¶Study on Finnish and Colombian infants; only data on Finnish infants in table.
#Wessel’s criteria: crying for 3 hours or more on at least 3 days in at least 3 weeks.

“crying” as keywords, and “colic”, “cry”, and “fuss” as free text words were combined with “epidemiology” (explode) as key word and “incidence”, “prevalence”, and “morbidity” as free text words. To contain sensitivity of the search, we did not search with the “restrict to focus” option.21 The searches were limited to infants younger than 1 year and restricted to English, German, French, and Dutch languages. We checked the references of retrieved publications for missing studies. The first author screened all citations in articles about incidence or prevalence of infantile colic in community based samples. Publications on consultation rates for crying and studies on non-white infants were excluded because our aim was to generate data on infants in Western societies. We defined community based studies as those including infants recruited from well baby clinics or community populations. Studies recruiting infants born in hospital, but otherwise without problems, were also accepted as representative of the general population. We labelled a study prospective when data collection was performed during the crying period and retrospective when data were collected after resolution of the crying problem.

**METHODOLOGICAL QUALITY**

We evaluated methodological quality with a self developed scale, based on Laupacis and colleagues and Fletcher and colleagues.22 We used different versions for prospective and retrospective surveys. Each study was scored on the items “definition of infantile colic”, “method of obtaining data on crying behaviour”, and “drop out”. The adequacy of each item could be scored “yes” or “no”. Each item had a weight of 1 or 2. In prospective studies the quality score ranged from 0 to 5. Two of us (WJvG, PLBJL) scored all surveys independently. We were not blinded for information on authors and journal, because one of us was well acquainted with the material already. Disagreement was solved by consensus. The degree of agreement before the consensus meeting was expressed as a percentage agreement and as kappa.24 25

**OCCURRENCE RATES**

Occurrence rates of infantile colic in prospective studies are usually given as cumulative incidence rates and occurrence rates from retrospective studies as period prevalence rates.26 However, both rates are identical when studying an ailment that only occurs in the first four months of life. Whenever possible, we extracted data from the original publications to calculate occurrence rates over the period in which infantile colic usually presents—that is, the first three months of infancy. For all data,
Table 2  Community based retrospective studies with occurrence rates for infantile colic, ranked according to methodological quality

<table>
<thead>
<tr>
<th>First author Country</th>
<th>Source of study population</th>
<th>Infant's age at assessment</th>
<th>Method of data collection</th>
<th>Definition of infantile colic as used for occurrence</th>
<th>Period of data reporting on occurrence</th>
<th>Invited (n)</th>
<th>Participated (n)</th>
<th>Occurrence of infantile colic (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>van der Wal</td>
<td>Netherlands</td>
<td>Infants at age 2–3 months</td>
<td>Questionnaires to be filled out by nurse/physician at scheduled visit and questionnaire at home</td>
<td>1 Crying &gt;3 hours/day</td>
<td>0–3</td>
<td>2 180</td>
<td>1 826</td>
<td>1 8%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Crying a lot</td>
<td>months</td>
<td>2</td>
<td>14%</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 Difficult to comfort</td>
<td></td>
<td>3</td>
<td>10%</td>
<td></td>
</tr>
<tr>
<td>Canivet</td>
<td>Sweden</td>
<td>Newborns from hospital</td>
<td>Telephone interview at age 5–7 months</td>
<td>1 Wessel’s# criteria or needed medication</td>
<td>0–3</td>
<td>254</td>
<td>224</td>
<td>1 12%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 Crying/screaming &gt;1 hour per day during 4 days/week, in one week¶</td>
<td>months</td>
<td>2</td>
<td>15%</td>
<td></td>
</tr>
<tr>
<td>Lothe</td>
<td>Sweden</td>
<td>Newborns from hospital</td>
<td>Telephone interview at age 12 weeks</td>
<td>3 Crying is a problem for the mother</td>
<td>0–3</td>
<td>242</td>
<td>219</td>
<td>17%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Intermittent unexplained excessive crying, many times a day, at least 4 days a week, and continuing for 1 week, at least 3 hours per day</td>
<td>months</td>
<td>3</td>
<td>20%</td>
<td></td>
</tr>
<tr>
<td>St James-Roberts</td>
<td>UK</td>
<td>Infants under age 1 year</td>
<td>Questionnaires to be filled out by nurse/physician at scheduled visit and questionnaire at home</td>
<td>Referral to professional for crying</td>
<td>1–3</td>
<td>nr§</td>
<td>100</td>
<td>10%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>or Need of professional help</td>
<td>months</td>
<td>174</td>
<td>140</td>
<td>15%</td>
</tr>
<tr>
<td>Alvarez</td>
<td>Denmark</td>
<td>Infants under age 1 year</td>
<td>Mailed questionnaire (CPQ)‡</td>
<td>Crying for more than 3 hours per day</td>
<td>0–3</td>
<td>140</td>
<td>140</td>
<td>15%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>or Question: was your baby colicky?</td>
<td>months</td>
<td>21%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Croxcroft</td>
<td>UK</td>
<td>Questionnaire administered by health visitor at age 1 month</td>
<td>Mailed questionnaire (CPQ)</td>
<td>Crying for more than 3 hours per day</td>
<td>0–1 month</td>
<td>72 995</td>
<td>67 172</td>
<td>18%</td>
</tr>
<tr>
<td>Thomas</td>
<td>USA</td>
<td>Infants 2 weeks to 12 months of age</td>
<td>Source not reported</td>
<td>Recurrent episodes of unexplained crying and irritability &gt;1 week</td>
<td>2–52 weeks</td>
<td>1 022</td>
<td>964</td>
<td>20%</td>
</tr>
<tr>
<td>Ståhlberg</td>
<td>Finland</td>
<td>Infants at age 0–3 months</td>
<td>Questionnaire personal or by telephone</td>
<td>Gas problems or infantile colic leading to unexplained periods of crying and restlessness</td>
<td></td>
<td>'Early infancy'</td>
<td>431</td>
<td>323</td>
</tr>
</tbody>
</table>

*QS = quality score; range 0–5 (for details see table 4).
†CPQ: crying patterns questionnaire.
‡The definition including the 3 weeks criterion was considered unrealistic to search for retrospectively (see table 1).
§nr: not reported.
#Wessel’s criteria: crying for 3 hours or more on at least 3 days in at least 3 weeks.

Results

The Medline search revealed 87 citations (33 on the subject of infantile colic); the Embase search yielded 52 citations (26 on the subject of infantile colic). Of these citations 16 were on the epidemiology of infantile colic/prolonged crying.20 28–41 Moreover, we located one not yet included in Medline42 and one submitted study.43 Reference checking yielded no additional publications. One study was excluded because it was performed in non-white infants.29 We excluded two other studies: one which gave data on mothers seeking help from their general practitioner,19 and one which had been performed in infants referred to a private paediatric clinic.90 Therefore, we report on 15 studies,19 20 28–37 41–43 of which were identified on Medline,19 20 28–37 41–43 and five on Embase 5,19 29 30–31 35 Most surveys had been performed in Scandinavian countries20 28–33 37 41 and the UK.19 28 34 42 Seven studies had a prospective design,19 20 28 32–35 37 41 seven a retrospective design,19 20 28 30 31 39 42 43 and one study had a prospective and retrospective part.90 Tables 1 and 2 present a tabular summary of the surveys.

The quality score ranged from 1 to 4 for the prospective studies and from 0 to 5 for retrospective studies. Tables 3 and 4 gave details of the quality assessment. There was good interrater agreement on the summary quality score of prospective studies (agreement 89%, k 0.78). Agreement was moderate for retrospective studies (agreement 77%, k 0.53).44 For prospective studies interrater agreement (expressed as k) for drop out rates was 0.75, for adequacy of the diagnosis 0.33, and for assessment of the outcome 0.90. For retrospective studies these figures were 0.25, 0.53, and 0.58 respectively. Most disagreement was caused by differences in interpretation or unclear reporting in the article and could be resolved easily. We reached consensus in all cases.

Occurrence rates in prospective studies varied from 3% to 28% and in retrospective studies from 8% to 40% (tables 1 and 2); refusal rate (percentage of invited/recruited persons not participating) varied from 6% to 49%; and loss to follow up in prospective studies (percentage of recruited persons not completing the study) varied from 1% to 27%. Five studies did not use a time criterion in defining colic.20 28–30 33 Six studies assessed occurrence of colic by measuring mothers’ subjective interpretation of their infants’ crying as “prolonged” or “colicky”, without using a time criterion.20 34–37 42 “Gas problems” and “problems with comforting the infant” were each included once in the definition.20 43 All except one survey (Canivet and colleagues,42 retrospective part), assessing infant crying behaviour and care seeking behaviour separately, found consistently lower occurrence rates for colic seen as a problem needing professional advice than for colic seen as prolonged crying for a certain period.20 28–30

One of the two best prospective studies—the one using Wessel’s “rule of 3” stringently29—
reported a relatively low incidence of infantile colic (5%). The other high quality prospective study reported a much higher figure (19%). None of the surveys separately reported the presence of gastrointestinal symptoms. Three surveys measured consolability. Surveys recruiting cases from well baby clinics reported lower occurrence rates compared to recruitment from birth registers and hospitals. One survey did not state the source of recruitment.

Eight studies reported on occurrence in boys and girls separately: seven found no difference in occurrence of colic, and one reported a significantly higher proportion of boys crying more than three hours per day. Five studies reported on influence of socioeconomic class: three found no differences, while two reported slightly higher rates in higher socioeconomic classes. Seven surveys compared breast fed and formula fed infants: four found no difference, and in two studies the occurrence rates among breast fed infants were slightly higher, and in one it was slightly lower. Only two studies reported separately on a positive family history of atopy: both found no association between the presence of a positive family history of atopy and the presence of infantile colic. In two studies influence of parental smoking was detected.

**Table 3** Quality score of prospective studies, individual items and total score

<table>
<thead>
<tr>
<th>Item (weight)</th>
<th>van der Wal*</th>
<th>Canivet*</th>
<th>Høgdal*</th>
<th>Rubin*</th>
<th>Michelsson*</th>
<th>Rautava*</th>
<th>Rinne*</th>
<th>Lehtonen*</th>
<th>Hide*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagnosis—definition sufficient (1)</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>?</td>
<td>+</td>
<td>+</td>
<td>?</td>
<td>-</td>
<td>?</td>
</tr>
<tr>
<td>Follow up: loss to follow up &lt;20% (1)†</td>
<td>-</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>?</td>
<td>+</td>
<td>-</td>
<td>-</td>
<td>?</td>
</tr>
<tr>
<td>Outcome (method)</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>-</td>
<td>+</td>
<td>+</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Outcome (timing)</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>-</td>
<td>?</td>
<td>+</td>
<td>+</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Other method (0)</td>
<td>-</td>
<td>-</td>
<td>+</td>
<td>-</td>
<td>+</td>
<td>-</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Total quality score (0–6)</td>
<td>4</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

*Weight: score to compliance with item.
+ compiled to item; − not compiled to item; ? not stated.
†Loss to follow up includes non-participation and not completing the study after recruitment.

**Discussion**

Occurrence rates of infantile colic in community based samples vary greatly because of differences in study design, site of recruitment, definition, and method of data collection. The two best prospective studies yielded occurrence rates of 5% and 19% respectively. Our review stresses the importance of a uniform definition and good documentation methods.

Gender, socioeconomic status, type of feeding, parental smoking, and family history of atopy have not been consistently measured and in studies that presented data, no consistent influence on occurrence estimates were detected. For some surveys small study size with related low power, might have caused the inability to detect differences in subgroups.

We are interested to find that in a prospective study of 160 Korean infants (which we excluded) no case of infantile colic was found. This survey was adequate according to the quality criteria in this study as the researchers used a 24 hour diary and a definition of infantile colic that included a time criterion. Confirmation of this finding in other non-Western societies is needed as differences in diet or care taking activities may be responsible for differences in occurrence of infantile colic, possibly providing clues for prevention or treatment.

In our systematic review, we used an unvalidated quality assessment method. We were not aware of any existing methods for assessing quality of occurrence studies. Although the low agreement for some items may be a result of inadequate reporting in the original publication, inconsistencies in our method could also have played a role. Further development of quality assessment methods for occurrence studies is therefore needed.

Discussion in diet or care taking activities may be responsible for differences in occurrence of infantile colic, possibly providing clues for prevention or treatment.

The various surveys in the review actually assessed three different concepts of infantile colic: crying of a certain duration; crying as a problem for the mother; and crying leading to a need to seek professional help. Comparing the need for professional help with crying of certain duration (for example, more than three hours per day) might have caused the inability to detect differences in subgroups.

**Table 4** Quality score of retrospective studies, individual items and total score

<table>
<thead>
<tr>
<th>Items (weight)</th>
<th>van der Wal*</th>
<th>Canivet*</th>
<th>Lothe*</th>
<th>St James-Roberts*</th>
<th>Alvarez*</th>
<th>Croxcroft*</th>
<th>Thomas*</th>
<th>Ståhlberg*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drop out—selection: % not included &lt;20% (1)</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>?</td>
<td>+</td>
<td>+</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Diagnosis—definition sufficient (1)</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Outcome (method)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total quality score (0−5)</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

*Weight: score to compliance with item.
+ compiled to item; − not compiled to item; ? not stated.
hours per day), in those studies which assessed both,12 25 most mothers seem to cope without professional help. It is not clear whether this discrepancy is caused by characteristics of the mother, characteristics of the infant (crying pattern and related features), or both. It is possible that consolability, the presence of gastrointestinal symptoms, and acoustic cry features (a more “painful” sound) are determinants of the decision to seek professional help. Moreover, distinguishing between crying of normal and excessive duration remains a problem. An older study had shown that healthy infants in Western societies cry for about 150 minutes per day,45 Recent studies, but it seems impossible for parents to use this method daily for 12–16 weeks. Therefore, as a compromise, Canivet et al used this method on one predetermined day each week.29 To further improve the diagnostic quality of estimating crying duration, this method could be supplied with the Crying Patterns Questionnaire,23 a validated retrospective method, which asks for an estimate of crying duration during the previous week.

As the studies in this review used a wide range of definitions and measurement methods, we can conclude little about infantile colic as a collection of different entities. Financial support for the treatment of infantile colic is less than previously estimated? We thank Anja van Guluck for her help in searching Medline/Embase and obtaining the articles, and Rosemarine Tomes for checking the English language.

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43 Wal MF van der, Boom DC van den, Pauw-Plomp H, Jonge GA de. Mothers’ reports of infant crying and soothing in the multi-cultural city of Amsterdam, the Netherlands. Submitted.