

# A study of the effects of Colief in infants with persistent abdominal colic

<b>Submission date</b> 09/03/2017	<b>Recruitment status</b> No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 22/03/2017	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 21/03/2017	<b>Condition category</b> Signs and Symptoms	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

Colic is excessive, frequent crying in a baby who appears to be otherwise healthy. It is known that 38% or more cases of infant colic are related to a temporary lack of the lactase enzyme, causing lactose (a sugar found in milk) to build up in the gut and then ferment. By providing lactase in the milk feed, the lactose will be digested. The aim of this study is to assess the effect of lactase (as the marketed product Colief) in the treatment of young babies who have colic.

### Who can participate?

Babies between the ages of 21 and 90 days with abdominal colic

### What does the study involve?

Participating babies are randomly allocated to have either lactase or a placebo (dummy drug) added to their formula milk feeds over two 10-day periods with a 4-day break in between. Improvement in colic symptoms is assessed by measuring crying time using a diary completed by the parent or guardian during the two treatment periods. Other than physical examination of the babies the study does not involve intervention of any kind (e.g. blood samples or X-rays).

### What are the possible benefits and risks of participating?

Babies may benefit from relief of their abdominal colic if the symptoms are due to lactase deficiency. Parents/guardians may therefore benefit from reducing their anxiety levels and improving their sleep patterns. If the symptoms are reduced, the product (Colief®) is available for purchase. There are no other lactase products for infants demonstrated as effective and so without alternatives the infant would probably continue to have symptoms until lactase is produced naturally. The tested product is a nutritional supplement (natural biological product) added to the formula feeds in low doses and as such the foreseeable risks are negligible. The product has also been available on the market in many countries for many years.

### Where is the study run from?

1. Springvale Medical Centre (UK)
2. Sandwell General Hospital (UK)
3. St Mary's Hospital (UK)
4. Miami Children's Hospital (USA)

5. New York Children's Hospital (USA)
6. Duke Children's Hospital (USA)
7. Chicago Lurie Children's Hospital (USA)
8. Kwong Wah Hospital (Hong Kong)
9. Prince of Wales Hospital (Hong Kong)
10. The Royal Children's Hospital Melbourne (Australia)

When is the study starting and how long is it expected to run for?  
September 2016 to December 2017

Who is funding the study?  
Crosscare Ltd (Ireland)

Who is the main contact?  
Dr Michael Bowles

## Contact information

**Type(s)**  
Scientific

**Contact name**  
Dr Michael Bowles

**Contact details**  
MMI Ltd  
Devonshire House  
Manor Way  
Borehamwood  
United Kingdom  
WD6 1QQ

## Additional identifiers

**Protocol serial number**  
CCL-001

## Study information

**Scientific Title**  
Multinational, multicentre, randomized, placebo-controlled, double-blind, crossover study of lactase in infant subjects with symptoms of abdominal colic

**Acronym**  
COLIIC

**Study objectives**  
Colief will prove significantly better than placebo in reducing crying time in infants with infantile colic  
with classically-defined infantile colic.

## **Ethics approval required**

Old ethics approval format

## **Ethics approval(s)**

1. Integrated Research Application System (IRAS) (UK) - pending
2. Kowloon Central Cluster Ethics Committee (Hong Kong) - pending
3. University of Melbourne Ethics Committee (Australia) - pending
4. Institutional Review Board (IRB) Children's Hospital Miami, Florida (USA) - pending

## **Study design**

Multinational multicentre randomized placebo-controlled double-blind crossover study

## **Primary study design**

Interventional

## **Study type(s)**

Treatment

## **Health condition(s) or problem(s) studied**

Infantile abdominal colic

## **Interventions**

Participants will be randomized to receive the following treatments over two 10-day periods with a 4-day washout period between treatments:

1. Lactase (Colief) treated milk feeds (4 drops of solution added to each formula feed)
2. Placebo (4 drops of matching placebo added to each formula feed)

## **Intervention Type**

Supplement

## **Primary outcome(s)**

Crying time, measured in minutes from diary cards completed by parents/guardians over each 10-day treatment period

## **Key secondary outcome(s)**

1. Fussing/fretting time
2. Stool frequency
3. Overall parent evaluation

Measured from the diary cards completed by parents/guardians during each 10-day treatment period

## **Completion date**

31/12/2017

## **Eligibility**

### **Key inclusion criteria**

1. Male or female babies between the ages of 21 and 90 days inclusive at time of study entry
2. Born at a gestational age of at least 32 weeks and with a birth weight of at least 2000 g

3. Symptoms of abdominal colic for at least 3 hours per day for at least 3 days per week present over the preceding 2 weeks
4. Associated signs of spasm and/or lower limb flexure and/or diarrhoea
5. Otherwise healthy babies
6. Parents/guardians willing to consent to their baby participating in the study
7. Exclusively bottle-fed babies

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Child

**Lower age limit**

21 days

**Upper age limit**

90 days

**Sex**

All

**Key exclusion criteria**

1. Age <21 days or >90 days at date of study entry
2. Born at <32 weeks gestation or with birth weight <2000 g
3. Any significant congenital disorder
4. Any significant co-existing disease
5. Partially breast-fed
6. Receiving any other anti-colic medicines
7. Known intolerance to beta-galactosidase (lactase)

**Date of first enrolment**

01/04/2017

**Date of final enrolment**

31/12/2017

**Locations****Countries of recruitment**

United Kingdom

England

Australia

Hong Kong

United States of America

**Study participating centre**  
**Melbourne Children's Hospital**  
Australia  
Victoria 3052

**Study participating centre**  
**Kwong Wah Hospital**  
Hong Kong  
-

**Study participating centre**  
**Prince of Wales Hospital**  
Hong Kong  
-

**Study participating centre**  
**Burncross Surgery**  
United Kingdom  
S35 1RN

**Study participating centre**  
**Sandwell General Hospital**  
United Kingdom  
B71 4HJ

**Study participating centre**  
**Springvale Medical Centre**  
United Kingdom  
YO21 1SD

**Study participating centre**  
**St Mary's Hospital, London**  
United Kingdom  
W2 1NY

**Study participating centre**  
**Miami Children's Hospital**  
United States of America  
FL 33155

**Study participating centre**  
**New York Children's Hospital**  
United States of America  
NY 10032

**Study participating centre**  
**Duke Children's Hospital**  
United States of America  
NC 27710

**Study participating centre**  
**Chicago Lurie Children's Hospital**  
United States of America  
IL 60611

## **Sponsor information**

**Organisation**  
Crosscare Ltd

## **Funder(s)**

**Funder type**  
Industry

**Funder Name**  
Crosscare Ltd

## **Results and Publications**

**Individual participant data (IPD) sharing plan**

The datasets generated and/or analysed during the current study during this study will be included in the subsequent results publication

**IPD sharing plan summary**

Data sharing statement to be made available at a later date

**Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Participant information sheet</a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes