

# Analysis of Pediatric Pancreatitis - APPLE trial

<b>Submission date</b> 27/01/2015	<b>Recruitment status</b> No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered <input checked="" type="checkbox"/> Protocol
<b>Registration date</b> 12/02/2015	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
<b>Last Edited</b> 01/05/2026	<b>Condition category</b> Nutritional, Metabolic, Endocrine	<input type="checkbox"/> Individual participant data

## Plain English summary of protocol

### Background and study aims

In the past few years, the incidence of pancreatitis in children has risen. The assessment of severity is crucial for the management of the disease. The available scoring systems to predict severity in adults have limitations when applied to children. Early recognition of severe disease might prevent serious adverse events and improve management and overall outcome for patients. The aim in this study is to establish a simple, easy and accurate clinical scoring system for early prediction of acute pancreatitis in children.

### Who can participate?

Children presenting with pancreatitis in the emergency department of a hospital

### What does the study involve?

Simple potential prognostic parameters will be obtained at admission (or not later than 6–12 hours afterwards) from children diagnosed with acute pancreatitis to assess their correlation with the disease severity.

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

Not provided at time of registration.

### Where is the study run from?

University of Szeged (Hungary) and Leipzig University (Germany)

### When is the study starting and how long is it expected to run for?

February 2015 to February 2018

### Who is funding the study?

Hungarian Pancreatic Study Group (Hungary)

### Who is the main contact?

Andrea Párniczky MD, PhD  
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## Contact information

**Type(s)**

Scientific

**Contact name**

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**Additional identifiers****Study information****Scientific Title**

Analysis of Pediatric Pancreatitis (APPLE): a cohort study

**Acronym**

APPLE

**Study objectives**

1. New clinical methods are needed to help improve the accuracy of early evaluation of the severity of acute pancreatitis in children. With early recognition of severe disease, doctors might have more opportunities to intervene to prevent serious adverse events and improve the overall clinical outcome. The available scoring systems to predict severity of acute pancreatitis in adults have limitations when applied to children. DeBanto or pediatric acute pancreatitis score has a low sensitivity and is not useful for the calculation of the scores at hospitalization.

2. The APPLE trial (prospective and retrospective analysis) is designed to develop a simple and accurate clinical scoring system to stratify children with acute pancreatitis during the first 6–12 hours of hospitalization according to their risk of a severe disease course, specify the genetic background and recognize better the course of pediatric pancreatitis.

**Ethics approval required**

Old ethics approval format

**Ethics approval(s)**

National Hungarian Ethical Authority (ETT TUKEB), 26/11/2014, no. 52499-3/2014

**Study design**

Multicenter cohort study

**Primary study design**

Observational

**Study type(s)**

Diagnostic

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

Acute pancreatitis

**Interventions**

No interventions

**Intervention Type**

Other

**Primary outcome(s)**

1. Develop a simple and accurate clinical scoring system to stratify children with acute pancreatitis during the first 6–12 hours of hospitalization according to their risk of a severe disease course: simple data (e.g. medical history, physical examination, laboratory tests and diagnostic imaging ) will be collected, recorded and statistically analyzed to assess their potential correlation with the disease severity
2. Specify the genetic background: mutations in the genes PRSS1, CTSC, CPA1, CFTR and SPINK1 will be sequenced
3. Recognize better the course of the pediatric pancreatitis

Data will be analyzed at 3 months.

**Key secondary outcome(s)**

N/A

**Completion date**

31/03/2022

**Eligibility**

**Key inclusion criteria**

1. Acute pancreatitis
2. Age < 18 years old
3. Presenting at the emergency department of a hospital

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Mixed

**Lower age limit**

0 years

**Upper age limit**

17 years

**Sex**

All

**Total final enrolment**

0

**Key exclusion criteria**

Age > 18 years old

**Date of first enrolment**

15/02/2015

**Date of final enrolment**

31/12/2021

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

Belarus

Bosnia and Herzegovina

Czech Republic

Estonia

Finland

Germany

Hungary

Italy

Latvia

Moldova

Poland

Romania

Russian Federation

Serbia

Slovakia

Slovenia

Spain

Sweden

Türkiye

Ukraine

United States of America

**Study participating centre**

**University of Szeged**

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Szeged

Hungary

H-6720

**Study participating centre**

**Leipzig University**

Liebigstrasse 20

Leipzig

Germany

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## **Sponsor information**

**Organisation**

Hungarian Academy of Sciences

**ROR**

<https://ror.org/02ks8qq67>

## **Funder(s)**

**Funder type**

Research organisation

**Funder Name**

Hungarian Pancreatic Study Group

# Results and Publications

## Individual participant data (IPD) sharing plan

### IPD sharing plan summary

Available on request

### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Protocol article</a>	protocol	01/06/2016		Yes	No
<a href="#">Abstract results</a>	Abstracts of Papers Submitted to the 53rd Meeting of the American Pancreatic Association, November 3–6, 2022, Orlando, Florida	06/11/2022	01/05/2026	No	No
<a href="#">Study website</a>	Study website	11/11/2025	11/11/2025	No	Yes