This study aimed to evaluate the longitudinal association between n-6:n-3 LCPUFAs ratio in cord blood and child ADHD symptoms at 4 and 7 years old. This study was based on the INMA project, a population-based birth cohort in Spain. Higher cord blood n-6:n-3 ratio was associated with higher subclinical ADHD symptoms during early and mid-childhood.

### Condition

<table>
<thead>
<tr>
<th>Condition</th>
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</thead>
<tbody>
<tr>
<td>Child Behavior Problem</td>
</tr>
<tr>
<td>Attention Deficit Hyperactivity Disorder</td>
</tr>
<tr>
<td>Fatty Acid Deficiency</td>
</tr>
</tbody>
</table>

**Study Type:** Observational

**Study Design:** Observational Model: Cohort

Time Perspective: Prospective

**Official Title:** Prenatal Omega-6/Omega-3 Ratio and Attention Deficit and Hyperactivity Disorder Symptoms in Children: a Population-based Longitudinal Study

**Resource links provided by NLM:**

MedlinePlus related topics: Attention Deficit Hyperactivity Disorder

U.S. FDA Resources
Further study details as provided by Centre for Research in Environmental Epidemiology, Spain:

Primary Outcome Measures:
- Fatty acid ratio in cord blood [Time Frame: 2004-2008]
- ADHD 4 years old [Time Frame: 2008-2012]
- ADHD 7 years old [Time Frame: 2012-2016]

Enrollment: 2644

Actual Study Start Date: November 2003

Study Completion Date: December 2015

Primary Completion Date: December 2015 (Final data collection date for primary outcome measure)

### Groups/Cohorts

<table>
<thead>
<tr>
<th>Groups/Cohorts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pregnant women</td>
</tr>
</tbody>
</table>

#### Eligibility

Ages Eligible for Study: Child, Adult, Senior

Sexes Eligible for Study: All

Sampling Method: Non-Probability Sample

### Study Population

This study was based on data from a population-based birth cohort, INMA (Infancia y Medio Ambiente [Environment and Childhood]) project, including four Spanish regions: Asturias (n=494) and Gipuzkoa (Basque Country) (n=638) on the Cantabrian coast, and Sabadell (Catalonia) (n=657) and Valencia (n=855) on the Mediterranean coast.

### Criteria

Between November 2003 and January 2008, pregnant women who visited the public health center for their first trimester ultrasound examination were recruited if they fulfilled inclusion criteria: age 16 years or older, singleton pregnancy, no use of assisted reproductive techniques, intention to deliver at the reference hospital, and ability to speak and understand Spanish or a local language.

### Contacts and Locations

Choosing to participate in a study is an important personal decision. Talk with your doctor and family members or friends about deciding to join a study. To learn more about this study, you or your doctor may contact the study research staff using the Contacts provided below. For general information, see Learn About Clinical Studies.

No Contacts or Locations Provided

### More Information
Responsible Party: Centre for Research in Environmental Epidemiology, Spain

ClinicalTrials.gov Identifier: NCT03283579

Other Study ID Numbers: mlopez

Study First Received: September 13, 2017

Last Updated: September 13, 2017

Individual Participant Data (IPD) Sharing Statement:

Plan to Share IPD: No

Studies a U.S. FDA-regulated Drug Product: No

Studies a U.S. FDA-regulated Device Product: No

Additional relevant MeSH terms:

Disease
Attention Deficit Disorder with Hyperactivity
Hyperkinesis
Problem Behavior
Pathologic Processes
Attention Deficit and Disruptive Behavior Disorders
Neurodevelopmental Disorders

Mental Disorders
Dyskinesias
Neurologic Manifestations
Nervous System Diseases
Signs and Symptoms
Behavioral Symptoms

ClinicalTrials.gov processed this record on September 14, 2017