

Improving care by understanding the interactions
between inflammation and preterm birth.



With your support, we're moving ahead.

Who are we? What do we do?



A gathering of expertise

The Hospital-University Federation Prem'IMPACT brings together, in a unique way, clinical teams and research laboratories around a shared objective: **decoding the role of perinatal inflammation in prematurity and its consequences**. Obstetricians, neonatologists, psychiatrists, psychologists, fertility specialists, and hospital teams work hand in hand with renowned laboratories (Institut Cochin, Institut Imagine, IRD, Institut Pasteur, ESPCI) **to design and lead innovative projects**.

University-affiliated clinical services

Eight perinatal centers — six in the Île-de-France region (AP-HP: Cochin-Port-Royal, Robert Debré, Necker-Enfants Malades, Louis Mourier, Armand Trousseau, and Paris Saint-Joseph Hospital) and two in Africa (CHU-MEL in Cotonou, Benin, and CHR of Saint-Louis, Senegal) — form our network. **Each year, these centers handle over 33,000 births, including 2,500 premature births, supported by 220 physicians, 340 midwives, and 600 nurses.**

Fundamental and translational research teams

Twenty-four multidisciplinary teams — in fields such as epidemiology, genomics, molecular biology, pharmacology, microbiology, immunology, physical chemistry, psychology, and social sciences — **share concepts, cutting-edge technologies, and innovative tools**. They collaborate closely with one another and with clinicians to ensure that research directly benefits patients. **It is from this collective effort that tomorrow's innovations will emerge**. The scale and expertise of this consortium enable FHU Prem'IMPACT **to carry out ambitious projects at both national and international levels**.

Structures supporting research and innovation

To accelerate the implementation of scientific advances, FHU Prem'IMPACT relies on:

- The Mother and Child Clinical Investigation Center (AP-HP) and the Cochin-Pasteur Vaccinology CIC;
- The Clinical Research Coordination Center at Institut Pasteur;
- The Benin Institute for Clinical Research.

These platforms ensure **a direct link between fundamental research and clinical trials**, so that every discovery can quickly benefit the health of newborns and their families.

The largest French consortium dedicated to prematurity.

A bold ambition: accelerating research and innovation to benefit premature babies. Uniting scientists, clinicians, epidemiologists, parents and tech companies in a truly interdisciplinary approach.



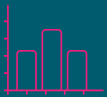
Actions structured around six key objectives
to advance the understanding, prevention and
care of premature babies and their families.



Validate innovative diagnostic and therapeutic tools to better prevent preterm births and assess their consequences;



Understand the mechanisms underlying preterm delivery and the vulnerability of premature infants to perinatal inflammation;



Compare best clinical practices and accelerate clinical research to improve the quality of care;



Assess the consequences of preterm birth on maternal mental health and comorbidities;



Empower families to play a central role in cutting-edge perinatal care and research;



Provide high-quality integrated education for parents and professionals.

Perinatal inflammation: a major public health challenge

Now recognized as one of the leading causes of preterm birth, perinatal inflammation is also involved in numerous immediate neonatal complications and long-term morbidity.

To sustainably improve the health of children born prematurely, Prem'IMPACT has made early detection and prevention of perinatal inflammation a top priority. This ambition takes shape through five interconnected working groups, bringing together clinical, scientific, and technological expertise.

5 interconnected working groups



Innovative technologies for diagnosis and treatment

- Identify and validate biomarkers of prematurity
- Detect early signs of neurodevelopmental disorders through neonatal imaging



Fundamental and translational research

- Understand the mechanisms behind premature birth
- Study how parents' environment affects inflammation risks during pregnancy and in newborns
- Prevent perinatal infections



Main innovation in clinical data

- Create a unified platform combining medical and research data to improve perinatal care
- Conduct an innovative clinical trial on corticosteroids to improve newborn health



Parental support for families of preterm infants

- Prevent mental health issues linked to prematurity
- Improve developmental care for extremely premature babies
- Prevent physical complications in mothers



Training, mentoring and knowledge sharing

- Empower parents through training to improve care for their babies
- Strengthen healthcare professionals' skills with solid scientific foundations
- Promote and share the work of FHU Prem'IMPACT

Your donation is a life-saving gesture



Each donation helps us take the next step

The projects listed in this brochure will be made possible thanks to your donations, your desire to help, and your commitment to progress.

All donations are managed by the AP-HP Foundation, in coordination with the Philanthropy Department of the AP-HP – Université Paris Cité Hospital Group.

A worldwide momentum for meaningful change

Sharing knowledge, accelerating progress

Prem'IMPACT is firmly committed to an international approach, bringing together research and training teams from both Europe and Africa. By engaging in thematic collaborations and international networks, the FHU expands its scope and strengthens the impact of its work.

A concrete commitment in West Africa

Prem'IMPACT is developing a research and healthcare strategy tailored to the realities of low -and middle-income countries. The IRD's MERIT team, active in Benin and Ghana, has a long-standing collaboration with FHU members. To further reinforce this partnership, the Clinical Research Institute of Benin has officially joined the consortium.

Training to improve care

Regular exchange programs are organized with university hospitals in Cotonou (CHU-MEL, Benin) and Saint-Louis (Senegal). Nurses and midwives from these institutions take part in training sessions – from a few days to one month – within partner clinical services in the Île-de-France region.

At the same time, the FHU is developing online training programs – including in obstetric ultrasound – in partnership with France Université Numérique (FUN), making knowledge accessible to as many people as possible.

A Europe-connected network

The research teams of FHU Prem'IMPACT have a long-standing involvement in several national and European research networks, reinforcing the consortium's visibility and strong positioning at the international level.

Your generosity, **drives our progress.**

FHU Prem'IMPACT moves forward to push prematurity back



Aurore, 12 years old, **former extremely premature baby.**

How to support FHU Prem'IMPACT

with the AP-HP Foundation :

<https://soutenir.fondationaphp.fr/prema/>



or on our website :

www.fhu-premimpact.org



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