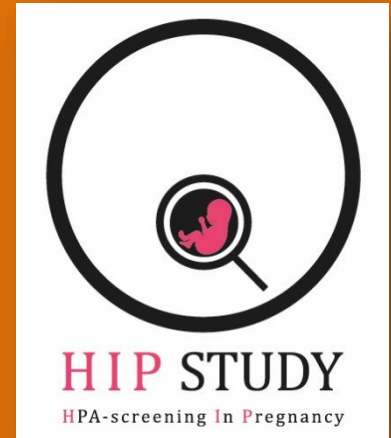


## HIP-studie

### *Eerste resultaten*

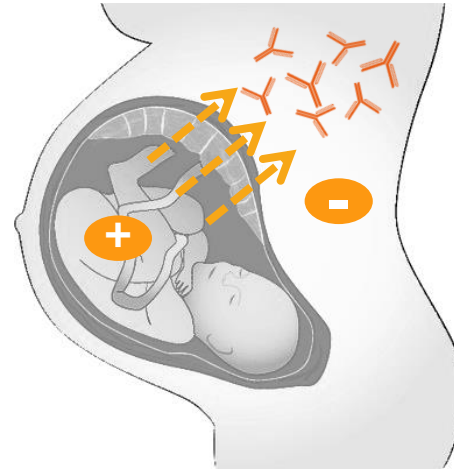
**Dian Winkelhorst, MD**

Department of Experimental Immunohematology, Sanquin  
Division Fetal Therapy, department of Obstetrics, LUMC



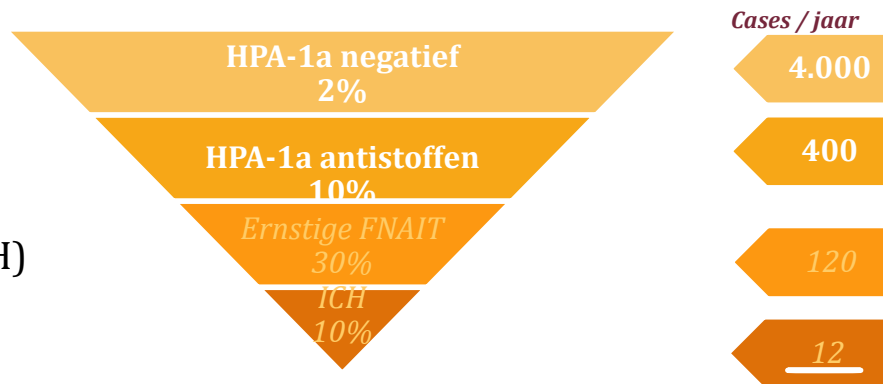
## Foetale en Neonatale Alloimmuun Trombocytopenie (FNAIT)

- **Alloimmunisatie**
  - Human Platelet Antigen (HPA-1a)
- **Bloedingsproblemen**
  - Asymptotisch – Mild – Ernstig (ICH)



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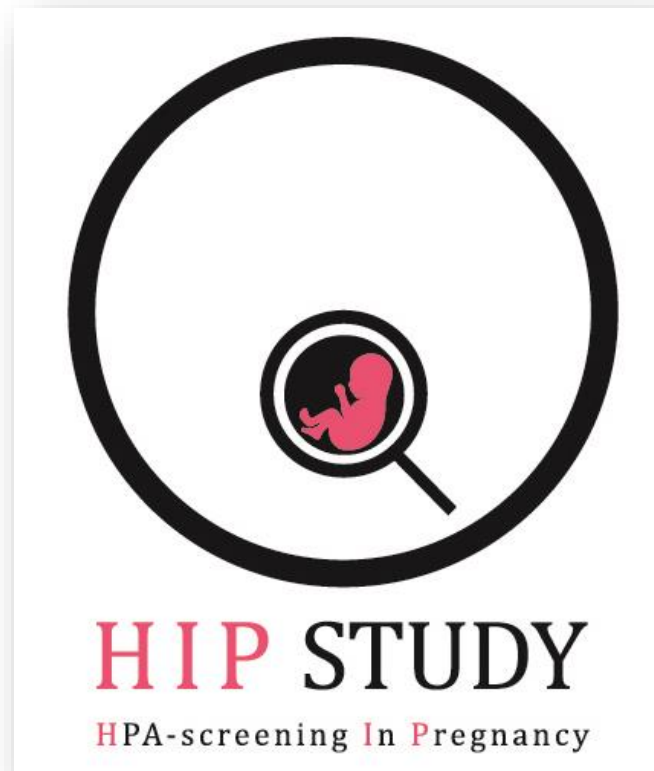
## Foetale en Neonatale Alloimmuun Trombocytopenie (FNAIT)

- **Alloimmunisatie**
  - Human Platelet Antigen (HPA-1a)
- **Bloedingsproblemen**
  - Asymptotisch – Mild – Ernstig (ICH)
- **Incidentie**
- **Preventieve behandeling Intraveneuze Immunoglobulines (IVIG)**

## HIP-studie – Doel

### Landelijke prospectieve studie

1. Incidentie en natuurlijk beloop FNAIT
2. Risicomodel  
Identificeer zwangerschappen '*at high risk*'

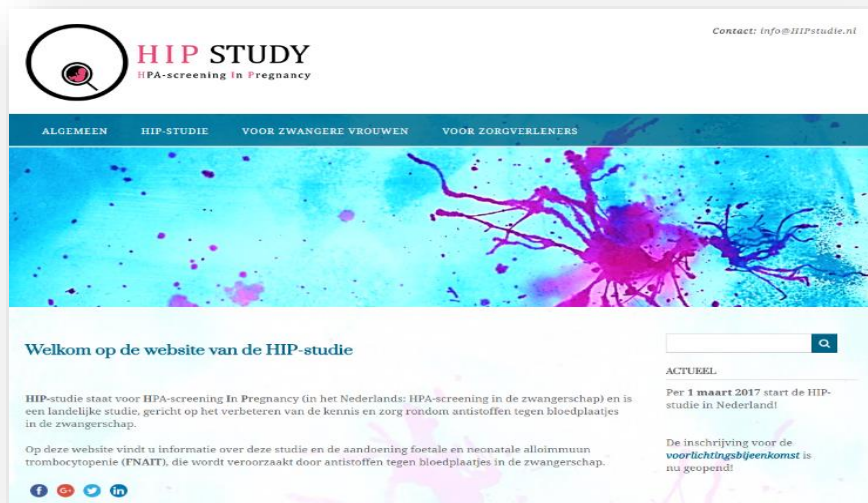


# HIP-studie - Opzet

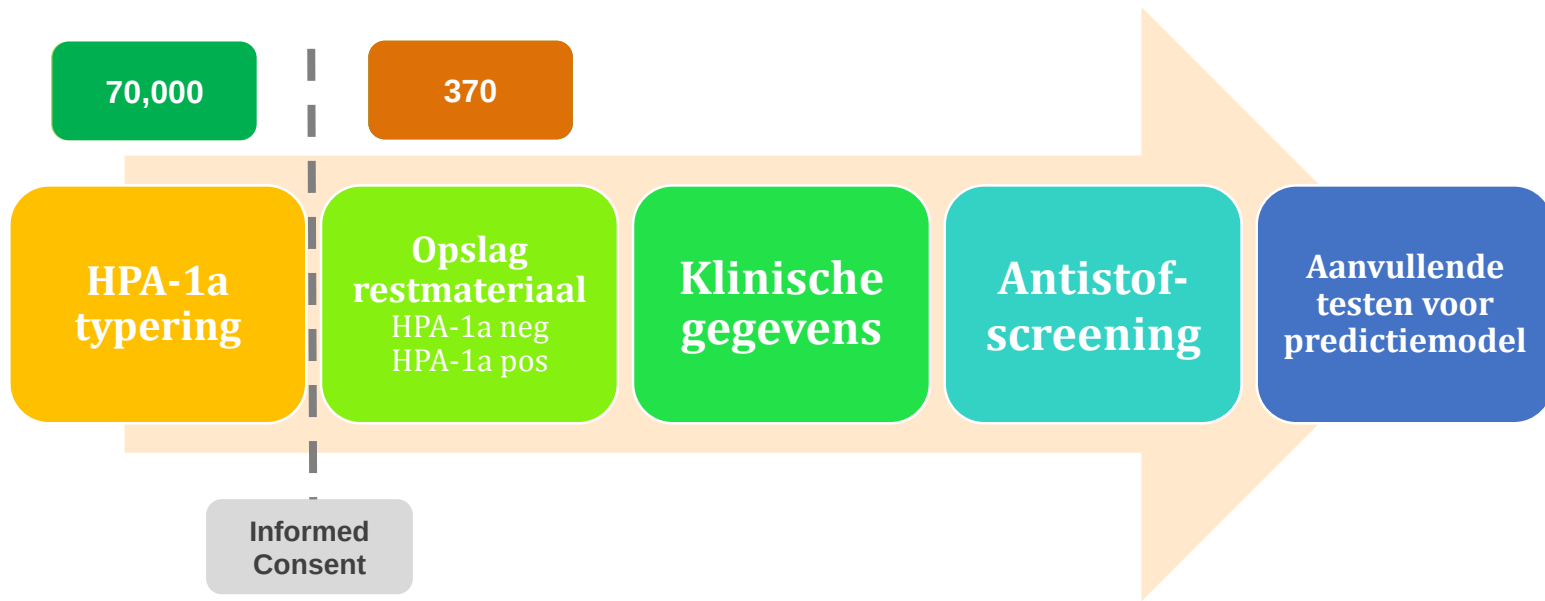


# HIP-studie - Opzet

- Rhesus D en Rhesus c negatieve zwangeren



# Stand van zaken





# Eerste resultaten – *Laboratorium data*

## 5 months HIP-study

- Maart 2017 – Augustus 2017

### **HPA-1a typering      n = 25,203**

- HPA-1a negatief      n = 601 (2.4%)
- Informed consent      ~ 23%
- HPA-1a negatief met consent      n = 131

### **Luminex antibody screening n = 120**

- Anti-HPA-1a      n = 14 (11.6%)

# Eerste resultaten – *Klinische data*

|           |                          | HPA-1a negatief<br>n = 107 |                            | HPA-1a positief<br>n = 432 |
|-----------|--------------------------|----------------------------|----------------------------|----------------------------|
|           |                          | Anti-HPA-1a<br>n = 14      | Geen anti-HPA-1a<br>n = 93 |                            |
| Maternaal | Gravidity                | 2 (1-7)                    | 2 (1-5)                    | 2 (1-7)                    |
|           | Parity                   | 1 (0-4)                    | 1 (0-4)                    | 1 (0-4)                    |
|           | Medical history with ITP | 0                          | 0                          | 0                          |

# Eerste resultaten – *Klinische data*

|             |                                       | HPA-1a negatief<br>n = 107 |                            | HPA-1a positief<br>n = 432 |
|-------------|---------------------------------------|----------------------------|----------------------------|----------------------------|
|             |                                       | Anti-HPA-1a<br>n = 14      | Geen anti-HPA-1a<br>n = 93 |                            |
| Maternaal   | Gravidity                             | 2 (1-7)                    | 2 (1-5)                    | 2 (1-7)                    |
|             | Parity                                | 1 (0-4)                    | 1 (0-4)                    | 1 (0-4)                    |
|             | Medical history with ITP              | 0                          | 0                          | 0                          |
| Obstetrisch | Miscarriage in obstetric history      | 5 (36)                     | 20 (22)                    | 97 (23)                    |
|             | IUFD in obstetric history             | 1 (8)                      | 0                          | 5 (1)                      |
|             | Hypertensive disorder, this pregnancy | 2 (14)                     | 9 (10)                     | 15 (4)                     |
|             | GA delivery                           | 39+6 (33+5 – 40+6)         | 39+6 (29+4 – 41+6)         | 39+6 (32+2 -               |
|             | Spontaneous delivery                  | 9 (64)                     | 77 (84)                    | 350 (81)                   |

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|             | Spontaneous delivery                  | 9 (64)                     | 77 (84)                    | 350 (81)                   |
| Neonataal   | Male sex                              | 7 (50)                     | 50 (54)                    | 221 (51)                   |
|             | Birth weight                          | 3178 (1715 – 4410)         | 3415 (920 – 4850)          | 3496 (1750 – 5110)         |
|             | Apgar score <7 at 5 min               | 0                          | 1 (1)                      | 2 (0.4)                    |

# Eerste resultaten – *Klinische data*

|                 |                                       | HPA-1a negatief<br>n = 107 |                            | HPA-1a positief<br>n = 432 |
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|                 |                                       | Anti-HPA-1a<br>n = 14      | Geen anti-HPA-1a<br>n = 93 |                            |
| Maternaal       | Gravidity                             | 2 (1-7)                    | 2 (1-5)                    | 2 (1-7)                    |
|                 | Parity                                | 1 (0-4)                    | 1 (0-4)                    | 1 (0-4)                    |
|                 | Medical history with ITP              | 0                          | 0                          | 0                          |
| Obstetrisch     | Miscarriage in obstetric history      | 5 (36)                     | 20 (22)                    | 97 (23)                    |
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|                 | Apgar score <7 at 5 min               | 0                          | 1 (1)                      | 2 (0.4)                    |
| FNAIT-specifiek | Thrombocytopenia (severe)             | 1 (0); 1 tested            | -                          | 1 (0); 7 tested            |
|                 | Minor haemorrhage                     | 2 (14)                     | 0                          | 4 (1)                      |
|                 | Severe haemorrhage                    | 0                          | 0                          | 0                          |
|                 | Perinatal death                       | 0                          | 0                          | 3 (1)                      |

Data presented as n (%) or median (range)

## Conclusie en Vooruitblik

- Logistiek en opzet studie
- Eerste 5 maanden minder toestemming dan nu
- Interim-analyse gecompliceerd door afwezigheid ernstige bloedingen
- Nieuwe analyse wordt nu opgestart