**Introduction**: The previous studies of individual pollens trap go back up to 20 years and the used passive traps were not very efficient. The purpose of this project is to put in relation the quantities of pollen measured with these traps with the quantities of pollen found on the urban traps and the symptoms collected by every patient equipped with these traps.

**Material and methods**
- Hirst type pollen traps belonging to RNSA
- Individual pollen traps: CIP 10 of the ARELCO company, provide with a specific head for respirable particles (until 100 μ)
- Measure of the symptoms: use of a weekly form or of a daily recording on the "pollen diary" (see below) to complete by the patient. It gives a score symptom.
  - symptoms related to nose
  - symptoms related to eyes
  - symptoms related to breath
  - tiredness / insomnia
  - other affections
  - drugs taken within the framework of a pollinose

**From aspiration...**
- 3 washings with a triton solution
- Withdrawal of the foam
- Coloration with a dye containing fuschine diluted to 7/1000
- Filtration and recovery of particles on a membrane

**...to observation**
- Preparation slide/cover slide with immersion oil
- Observation and counting on a microscope (x40)

**CIP 10**
- Developed by the INERIS to answer the need of coal mines. It is autonomous and intended for "dusts" inhaled by human. It declines for the samples of silica, wood, bacteria, pollens, virus, endotoxines and molds.

**Principle of functioning**
- Sampling assured by the rotation of a small dish foams: engender a flow of inhalation of 10 l / min (similar to the human respiratory flow).
- Various analyses can then be practised: destructive, non-destructive, weight, PCR
- There are various selective heads: alveolar, breathal fraction with a flow of 10 L / min, respirable fraction with a flow of 10 L / min, thoracic fraction with a flow of 7 L / min.
- For our studies, the choice concerned to respirable heads.
- The system of inhalation allows a sampling in all directions.

**Results**

**Conclusion**: The use of the portable trap CIP10 according to the method developed by the RNSA allows to the doctor to have this new alternative in very specific clinical cases, to complete measures of individual exposure in certain cases of professional allergy and to use these individual measures in national or European studies.