



”Microbiosthme”: Upper and lower airway microbiomes analysis in infants with severe asthma

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« Microbiosthme »: Upper and lower airway microbiomes analysis in infants with severe asthma



MAJOR AIMS

Characterization of upper and lower airway microbiomes (bacteria, viruses and fungi) and exploration of inflammatory profiles of infants with severe asthma for a better understanding of the disease and better therapeutic management.

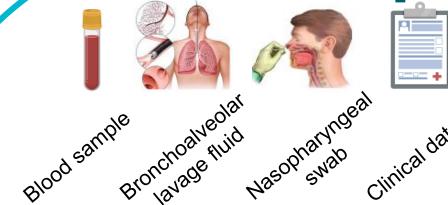
METHODS

Cohort constitution



100 patients
under 2 years old

INCLUSION



CHECK-UP EVERY 3 MONTH



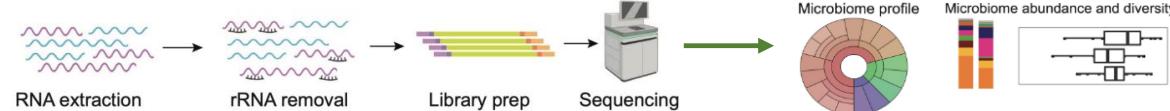
1 YEAR

Microbiome analysis

- 1 Bronchoalveolar lavage fluid and nasopharyngeal swab from inclusion

- 2 Nasopharyngeal swabs from check-ups performed every 3 month (up to 1 year)

Metatranscriptomics and bioinformatics associated



Inflammatory profile

- 3 Blood sample and bronchoalveolar lavage fluid from inclusion

Determination of inflammation markers



OUTCOMES

Upper and lower respiratory tract microbiomes characterization and their interactions

Microbiomes evolution over time in relation to clinical data

Potential link between microbiomes and inflammatory profiles

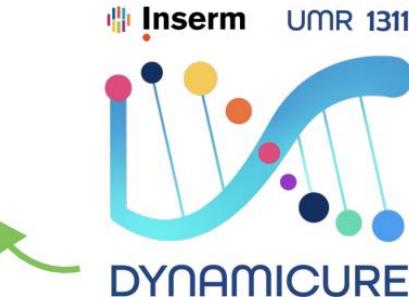
Establishment of the nature of microbiome dysbiosis potentially related to inflammatory profiles of infants with severe asthma



THANK YOU FOR YOUR ATTENTION



DYNAMICURE
WEBSITE



Acknowledgments



RÉGION
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Une approche intégrée en santé respiratoire



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