

# FeNO@home | Fact sheet for home measurement in clinical studies

## Study goal

The main goal is to evaluate whether regular FeNO measurements at home in asthmatics have an impact on:

- Treatment adjustment
- Patient compliance
- Identification of asthma triggers



In addition, it is planned to gain insights into the following topics:

- Variability of FeNO values over a longer period
- Correlation of FeNO values with symptoms and ICS dosage
- Patient behavior during stable/unstable phases









## Study design

In this observational multi-center study, different groups of asthmatics based on severity were included.

- After one in-person visit, patients performed daily FeNO measurements using the Vivatmo *me* home measurement device.
- FeNO values are transferred digitally via Bluetooth directly from Vivatmo *me* to the Vivatmo *app*.
- Currently prescribed asthma treatment was continued.
- Symptoms, medication, exacerbations, and PEF\* were recorded in the Vivatmo *app*.
- After 12 weeks, the study ended with another in-person visit and assessment of asthma control, symptoms, and lung function.

\*PEF = peak expiratory flow

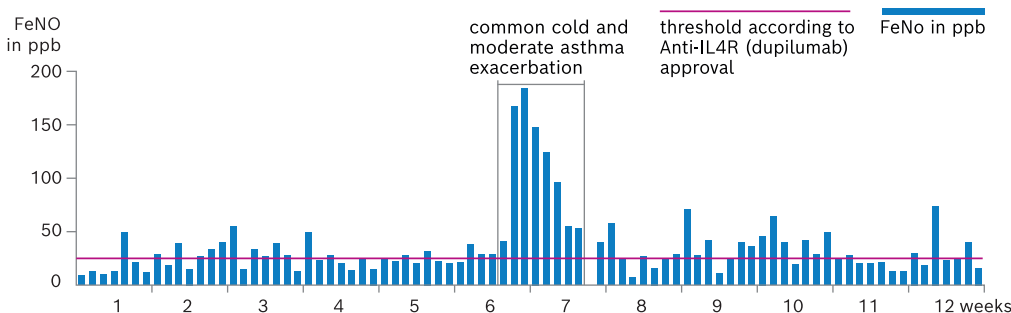
## Key data

-  FeNO measurement with the Vivatmo *me* device for home use
-  2 countries (Germany, Italy)  
4 study centers
-  Study population: > 80 asthmatics with different severity; aged between 18 and 75
-  Principal investigators: Prof. Heffler (IT)  
Dr. Beeh (DE)
-  12 weeks observation period per patient
-  Up to 84 FeNO values per patient
-  Asthma diary in Vivatmo *app*
-  2-4 in-person visits

## Center experience with Vivatmo *me*

“Home measurement can lead to truly individualized asthma therapies based on continuous FeNO values”

**PD Dr. med. Kai-Michael Beeh, Pulmonary Practice and insaf Institut für Atemwegsforschung GmbH, Wiesbaden, Germany**



Example of insights based on single case data (see left):

- Pattern of data helped to confirm the inflammatory endotype
- Data supports decision on biologics
- Identification of otherwise unreported exacerbation
- Exacerbation trigger confirmed

## FeNO home measurement can be a game changer for your clinical studies:

- **Continuous data generates entirely new insights for studies**, improved diagnosis, and therapy
- **Lower effort for study centers and patients:** No in-person visits for FeNO measurement required
- **Cost efficient and flexible** compared to on-site devices when creating regular FeNO values
- **Connectivity:** Vivatmo *app* combines pollen data\*, symptoms, medication, exacerbations, and PEF with FeNO in reports (PDF or CSV). FeNO value integration via Bluetooth in apps/software via SDK

