CASE STUDY

FeNO monitoring made easy.

Nitric oxide is produced by your body to help combat inflammation and when your airway is inflamed, NO is produced in the lungs and exhaled on the breath.

Airway inflammation is a central process in asthma and other lung diseases\(^1\).

Fractional exhaled Nitric Oxide (FeNO) can be used as a non-invasive biomarker of airway inflammation to help differentiate between allergic and non-allergic asthma, as well as between asthma and other respiratory conditions.

The NObreath® FeNO monitor offers a quick, easy-to-use and non-invasive\(^2\) way to monitor airway inflammation, through breath analysis. With adult, child and ambient profiles, the NObreath® FeNO monitor is the essential tool for asthma.

Benefits of performing FeNO tests include:

- Shows a patient’s response to treatment, enabling the correct prescription of medication and safer/monitored adjustments
- Shows patient compliance to medication
- Aids in identifying patients who do/do not require on-going treatment\(^3\)
- Aids in differentiating between allergic (eosinophilic) and non-allergic asthma\(^4\)

Muttamba Winters, a doctor from Mulago Hospital, Uganda, is working on a multi-country project that offers high quality Asthma care to Asthmatics, using the NObreath®. Winters explains, “The aim of the project is to characterise severe Asthma in East African
patients. We shall use this equipment on a cohort of 1700 patients to measure airway inflammation among the enrolled clients. Since we obtained the equipment, we have used it on 700 patients so far. Soon we shall look at the FeNO measurements and correlate this with other clinical parameters.”

“I was mainly looking for equipment that was affordable and easy to use for the clinic personnel. I am an advocate of point of care diagnostics, as these diagnostics come in handy to any clinician. As a clinician, I need to be able to measure the level of airway inflammation by myself for my clients in the same consultation room so I can be able to optimise their treatment. It wasn’t hard instructing the health workers on how to use the NObreath® and it was also easy for the patients to follow the instructions. This hand-held device is easy to use and the readings are instant. Furthermore, it’s also battery powered and so can be used in areas where the power supply is unstable.”

References

3. Andrew D. Smith, Jan O. Cowan, Sue Filsell, Chris MacLachlan, Gabrielle Monti-Sheehan, Pamela Jackson and D. Robin Taylor. Diagnosing Asthma: