

Fractional exhaled Nitric Oxide (FeNO) – Models of Care

#4: Badgerswood Surgery (Wessex AHSN)

Organisations in England and Northern Ireland who have used, planned to use or commissioned FeNO for Asthma diagnosis and management have shared their real world experiences. A number of example care models and pathways were shared and one of them is described here.

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| Population | 18,500 (2 practices, 3 surgeries) |
| Staffing | Practice respiratory nurse (other nurses cover if needed). GP support if needed. |
| Frequency | As needed. |
| Setting | <ul style="list-style-type: none"> GP practice seeing patients from 2 practices. |
| Service | Diagnosis, monitoring and management (30 minute appointment) |
| Established | 2018 – February 2020 |
| Investigations | <p>Nurse review:</p> <ul style="list-style-type: none"> FeNO and spirometry, clinical history. |
| Management | <p>Nurse review:</p> <ul style="list-style-type: none"> Education, individual self-management plan, asthma diary (morning and evening recordings of peak flow). |
| Oversight | GP provides final sign off on diagnosis and medication changes (no nurse prescribers). |
| Follow-up | 2 weeks after initial diagnosis appointment. |
| Funding | <ul style="list-style-type: none"> Borrowed a FeNO device (Circassia) from MISSION for 1 year Patient group then raised funds and bought 2 devices CCG provided small amount of funding for respiratory nurse time that allowed a 'kickstart' Practice funded consumables within existing budget |
| Driver for change | <ul style="list-style-type: none"> In 2017 the practice was involved in the Modern Innovative Solutions in Improving Outcomes (MISSION) Rapid Access Asthma Clinics (RAAC) The project was driven by a GP champion who was inspired to continue offering an enhanced asthma diagnosis, management and monitoring service 'in house' |
| Outcomes | <ul style="list-style-type: none"> No data has been routinely collected on outcomes Short-acting beta-agonist use has decreased There has been a shift to formoterol as the shortest acting of the long-acting beta agonist inhalers More willing now to try a range of inhalers to find one that suits the patient Moved almost completely away from preventor and reliever inhalers Unsure about coding on practice system for use of FeNO Anecdotally asthma exacerbations have decreased |