# Implementing Rapid Diagnosis of Respiratory Infections in

## Primary Care: Evaluating the Role of ID NOW Molecular Point-of-care testing in a Pilot Model

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#### **BACKGROUND**

In response to NHS England's strategy to improve urgent care delivery in community settings, Symphony Healthcare Services piloted a General Practice Urgent Assessment Service within the South Somerset West Primary Care Network for 19 weeks from January-July 2024¹; the multidisciplinary service delivered 1482 appointments to 1351 patients² and offered enhanced diagnostics with same-day X-ray, blood gases and ECG. Additionally, in line with the government strategy to combat antimicrobial resistance³, point of care (POC) respiratory testing using ID NOW™ Instrument was piloted, and evaluated to establish whether POC supports clinical decision making in primary care

#### **METHOD**

- Patients with acute respiratory presentations: Influenza A&B and Covid-19 molecular assays
- Patients with sore throat and FeverPAIN score ≥3: throat swab for Group A streptococcus assay
- Mixed methods evaluation undertaken comprising clinician and patient surveys, service data, and stakeholder feedback

TEST	FREQUENCY	PERCENTAGE POSITIVE %
Strep A	97	40
Influenza A	28	14
Influenza B	28	0
Covid-19	15	0

#### **Patient Experience**

99% appreciated immediate results, 95% trusted the test outcomes, and 49% felt testing supported appropriate care decisions. One-third of patients indicated they would have otherwise sought further GP appointments or attended emergency departments

#### **Clinician Management Behaviours**

ID NOW™ Instrument results influenced treatment decisions in 46% of cases, often altering the initial management plan. Strep A testing was the most frequently used and impactful, particularly during winter outbreaks. Clinicians estimated that among 97 patients tested with ID NOW™ Instrument, 23 were considered to have avoided hospitalisation due to timely intervention

#### **RESULTS**

#### Financial Implications

(source: Health Innovation South West)

Molecular POC tests x125 at £26.88 per test: £3360

Saved prescriptions: £434.91

ED attendances avoided: 4 x £291 = £1427

### **Environmental Impact**

21 unnecessary antibiotic prescriptions avoided, saving 210kg CO<sub>2</sub>e<sup>4</sup>

Prevented active drug metabolites entering wastewater

Reduce packaging and waste

Contribute to slowing antimicrobial resistance



#### **CONCLUSIONS**

Symptoms of viral and bacterial respiratory infections often overlap, making accurate diagnosis challenging. The integration of ID NOW™ Instrument point of care testing within an acute primary care hub significantly enhanced clinical decision-making, reduced unnecessary antibiotic use, and potentially prevented emergency department attendance

The rapid turnaround of results supported timely and appropriate care, improved patient confidence, and contributed to system efficiency

These findings highlight the value of deploying rapid diagnostic tools such as ID NOW™ Instrument in community urgent care settings to improve outcomes and reduce pressure on secondary care services

#### **REFERENCES**

- 1.Robinson Z. Point of care testing supports patients to receive timely respiratory care in the community. Health Innovation South West [Internet]. Health Innovation Southwest 2025 2. General Practice Urgent Assessment Service Symphony Healthcare Services [Internet]. Symphony Healthcare Services. 2024 [cited 2025 Aug 28]
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- 4. Parker E et al EcoKidzMed: Measuring the carbon emissions of packaging, distribution and waste disposal of liquid and capsule amoxicillin Archives of Disease in Childhood 2023;108:A295-6