Innovation Brief

Medical Technology Innovation Dynamic Purchasing System - Genedrive® MT-RNR1 ID Kit (ID-RNR1-01), supplied by Genedrive Diagnostics Ltd.

Summary

Disruptive innovation

This briefing introduces a disruptive innovation newly available via NHS Supply Chain: the MT-RNR1 diagnostic test. Reviewed by clinical specialists and supported by key stakeholders, this device offers a novel approach for detecting a genetic variant to guide antibiotic use and prevent hearing loss in babies.

Introduction

This document is intended to inform clinical stakeholders and procurement teams about innovative products that have undergone a clinical review and are now accessible through NHS Supply Chain.

Products featured in this brief may be classified as:

- A disruptive innovation is novel.
- It should offer improvements compared to the existing provision of care.
- The proposed format should not exist elsewhere (either within or beyond the health and care sector).

Note: While robust evidence or validated savings may not yet be available, early data and clinical insights support the potential for patient and system-level improvements.

Departments / stakeholders for engagement

- NHS procurement teams
- Obstetrics and maternity units
- Genetics
- Pathology

Opportunity

The Genedrive MT-RNR1 ID Kit for detecting a genetic variant to guide antibiotic use and prevent hearing loss in babies:

- 90,000 Babies are admitted to UK Neonatal Intensive Care Units (NICUs) with suspected sepsis every year. They need to be treated within 1 hour of diagnosis.
- 1 in 500 carry a gene that puts them at high risk of profound, bilateral and irreversible hearing loss if exposed to aminoglycosides, requiring cochlear implants.
- Genedrive's NICE-recommended MT-RNR1 test is the first of its kind to provide a rapid genetic test in a NICU setting, within 26 minutes.

Innovation Brief

Opportunity (continued)

- Implementation could reduce the need for bilateral cochlear implants in up to 200 children per year.
- Reduction in lifelong communication and educational challenges.
- Point of care genetic test to be used in time-critical situations, to guide antibiotic treatment prescription.
- Non-invasive test, using a single buccal swab.
- Rapid point of care genetic test that delivers results within the ‘golden hour’.

Product overview

The Genedrive MT-RNR1 ID Kit (Genedrive plc) is a qualitative in vitro molecular diagnostic test for detecting the MT-RNR1 m.1555A>G variant. It is intended to be used by healthcare professionals in a near patient setting using a buccal (cheek) swab sample

Preventative Value
- Prevents escalation to more costly treatment or care by reducing the risk of loss of hearing at the beginning of life.

Social Value
- Reduces patient dependencies by improving functional ability. Reduces the risk of hearing loss at the beginning of life.

Service Value
- Reduces demand on services or enables care in more appropriate settings by near patient testing.

Experiential Value
- Improves patient experience by reducing inconvenience or invasiveness due to sample type.

Efficiency Value
- Reduces the need for follow-up care by preventing hearing loss at the outset of life

Supply details

Complete your requirements in our form on https://www.supplychain.nhs.uk/dps

Or contact us - DPSCustomerQueries@supplychain.nhs.uk

Innovation Brief

Supply details (continued)

Route - Direct Supplier - GeneDrive Diagnostics Ltd Brand - Genedrive

Item name	Package type	Unit of issue
Multi Test Analyser MT-RNR1 ID Kit (10)	Box	10
Multi Test Analyser MT-RNR1 Positive Control Kit	Box	4
Multi Test Analyser MT-RNR1 Negative Control Kit	Box	4
Multi Test Analyser Genedrive System	Box	1
Multi Test Analyser Bluetooth label printer with charging cradle and 1 roll of labels	Box	1
Multi Test Analyser Replacement Bluetooth printer labels	Box	200 per roll

Supporting evidence / notes

NICE HTG665 - https://www.nice.org.uk/guidance/htg665

HealthTech guidance - Genedrive MT-RNR1 ID Kit for detecting a genetic variant to guide antibiotic use and prevent hearing loss in babies: early value assessment.

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