Monitor your patients’ INR levels accurately and efficiently

CoaguChek XS and XS Plus
A range that brings a new level of confidence in INR monitoring, for you and your patients
A patient centred service in anticoagulation therapy

The policy of practice based commissioning aims to encourage individual practices to provide local and flexible services to patients.

Supporting patient self care

Patient self care is a key initiative in the NHS Plan for a patient centred health service and an important component in supporting people with long term conditions.²

Locally based services can:

- Offer more choice for patients and practices
- Reduce the burden on secondary care
- Allow practices to fund further service improvements from potential budgetary savings

Implementing a near-patient (NPT) INR testing service in your clinic can:

- Help monitor patients more closely for better therapy management and improved outcomes¹
- Offer patients a local, convenient alternative to a hospital based anticoagulation clinic
- Improve patient relations through more involvement and greater confidence
- Reduce your team’s time spent liaising with hospital laboratories
- Benefit your practice with Level 4 reimbursement for INR tested patients through the enhanced services GMS contract

Encouraging involvement and responsibility through ‘expert patient’ programmes and greater patient self care, can benefit both patient and practice through:

- Improved symptom management and patient quality of life³
- More independence for the patient⁴
- Reduced GP consultations and hospital admissions

Patient self-testing (PST) for appropriate patients on anticoagulation therapy can:

- Give patients more freedom through fewer visits to the clinic and allow regular monitoring – even on holiday or other times when routines and diet can change
- Entitle the clinic to receive up to £128 per INR managed patient under the GMS contract
- Reduce the risk of complications through factors including:¹
  - More time spent in therapeutic range⁵
  - Empowerment of the patient¹
  - Encouragement to adhere to self-management strategy¹
  - Increased awareness of health status¹

Consider implementing patient centred services, either as a near-patient testing clinic (NPT) or patient self-testing (PST) for appropriate warfarin and other anticoagulation therapy patients.
Leading the way in INR monitoring

The CoaguChek range of products has been leading the way in INR monitoring since 1993 and has helped many thousands of patients and healthcare professionals to manage oral anticoagulation therapy effectively.

CoaguChek S

The market leading CoaguChek S provides fast and accurate results and is suitable for both NPT and PST.

CoaguChek meters:

- Extensive technical evaluations including MHRA
- Extensive clinical evidence
- Supported by unparalleled service and technical advice lines
- Strips available on prescription
- Meter kits include lancing device, lancets, starter pack of test strips, batteries and/or power lead

CoaguChek S test strips

- Test strips continue to be available on NHS prescription
- Strips available in packs of 12 or 48

- Provides results in less than two minutes
- 87% of PST patients found CoaguChek S straightforward to use
- MHRA evaluated and reviewed by NEQAS (UK National External Quality Assessment Service)
- Proven to be a safe and accurate alternative to laboratory INR testing
NEW CoaguChek XS
Combines state of the art INR monitoring technology with a compact design that meets the levels of accuracy, safety and convenience essential for patient self-testing.

- Electrochemical principle
- Ability to set individual therapeutic range
- Compact, hand held design and battery operation for added convenience
- Large graphic display and easy to follow operation
- 100 result memory
- Plus many more features for accuracy and convenience

NEW CoaguChek XS Plus
Specifically designed with a range of enhanced features, CoaguChek XS Plus is the ideal INR testing meter for primary and secondary care environments.

- Full graphical touch screen for simple and fast handling
- Audit facility with patient and user identification
- Download capabilities and integrated data management functions
- Accurate results within 1 minute
- 500 result memory
- Mains and battery power supply for in-clinic or home visit use
- CoaguChek XS Plus Prothrombin Time (PT) liquid controls available
- Top and side dosing outside of meter for easier application significantly reducing the risk of contamination
- Strips stored at room temperature - no need for refrigeration
- Strips available on NHS prescription in packs of 24 or 48
- XS strips are compatible with both XS and XS Plus meters

Test strips
- Unique On-Board Control System using single channel technology ensures accurate day to day running of the meter, therefore no need for control solution
- Human recombinant thromboplastin has International Sensitivity Index (ISI) = 1.0 for greater test accuracy
- XS strips are compatible with both XS and XS Plus meters
**Continuing reassurance**

Our ongoing commitment to product innovation means that the new generation of CoaguChek meters provides unsurpassed levels of convenience and reassurance to patients and healthcare professionals alike.

**Low ISI PT reagent:**

- Human recombinant thromboplastin has International Sensitivity Index (ISI) = 1.0 for greater test accuracy
- Compliant with WHO recommendations

**Insensitive to heparin**

- Reagent is insensitive to heparin allowing continuous monitoring throughout the heparin to warfarin transition*

---

**Interferences**

- Haematocrit no effect from 25% to 55% (Hct)
- Fibrinogen no effect from 167 to 600mg/dl

---

**Evaluation of CoaguChek XS**

**Accuracy you can trust**

CoaguChek XS meters are designed with the highest levels of accuracy in mind. By incorporating the latest developments in INR monitoring technology, you can be sure that CoaguChek XS meters give accurate and precise results to ensure that your patients receive the most effective therapy management.

---

**Evaluation of CoaguChek XS system vs Innovin**

- The duplicate determinations with the CoaguChek XS system showed very low imprecision (high precision) for the master lot INR results with a CV of 1.1%

---

**The master lot of the new CoaguChek XS system was successfully calibrated with high precision according to WHO guidelines**

---

**Confidence**

**Method Comparison of Duplicate Determinations with the CoaguChek XS Master Lot**

![Graph showing high correlation between CoaguChek XS and Innovin results](image-url)
**Confidence through technology**

The new electrochemical technology utilised in CoaguChek XS products has advantages over dancing particle, electrical resistance and electrical impedance methods and helps ensure even greater accuracy in PT results.

**Unique On-Board-Integrated-System Control:**

- Automatic on board integrity check ensures accurate day to day running of the meter
- Device and strip are constantly checked during measuring process and detects insufficient blood sample
- Haematocrit correction
- On-Board Single Channel Strip Control
  - Built in controls to protect strip integrity
  - Detection of used or out of date strips
  - Control and reagent is delivered through same channel for improved quality control

**New dose application:**

- Top and side dosing outside of meter for easier application and greater contamination control

---

**Improving quality of life**

Regular testing can improve patients’ quality of life – with independence and better organisation of leisure and holiday time being most frequently mentioned advantages.³

**Satisfaction with self-monitoring compared to conventional care**

adapted from Cromheecke M et al³

**Compared to conventional care, self-monitoring reduced:**

- Daily worries
- Distress
- Social issues

"I am certain of the therapeutic benefits of self-testing and for anyone who travels abroad it can be invaluable."

"I am more confident because I know that I am within my therapeutic range."
Improving clinical outcomes

Regular INR monitoring can help improve anticoagulation therapy management and consequently have a positive impact on clinical outcomes.

- PT times should be monitored frequently to determine the safest dose and minimise the risk of complications.
- Monitoring weekly, 85% of patients stayed within target range, compared with around 50% monitoring monthly.
- Improved anticoagulation control results in improved outcomes with a decrease in the incidence of haemorrhage and thromboembolic events, by up to 55%.
- Adverse events are generally the result of poor therapeutic control.
- Patient self-management of oral anticoagulation treatment decreased the incidence of major complications compared to conventional management.

Test frequency

Encouraging patients to INR test more regularly, either at an NPT clinic or through PST, can help improve therapeutic management and encourage greater involvement in their treatment.

- A recent study of over 2800 patients with a mechanical heart valve replacement suggests that fluctuations in INR measurements were the strongest predictors of both thromboembolic and bleeding events.
- Self-managing patients stuck to their INR range with higher accuracy than those on a conventional management programme.

In another study, the proportion of patients who spent most time in the therapeutic target range was larger during self-management than during anticoagulation clinic-guided management.

- A UK based study showed that 70% of patients who self-managed over a 12 month period, stayed within their therapeutic range when INR testing every two weeks.
Support services for your patients

- CoaguChek XS meter kit contains:
  - Instruction manual
  - ‘Step-by-step’ demonstration video
  - Contact phone numbers

- CoaguChek Careline for:
  - Comprehensive product information
  - Training advice
  - Lifestyle support

- Technical Helpline provides:
  - Answers to any questions about the meter

Support services for your clinic

- Roche work in partnership with PCOs to help set up NPT clinics and PST support services

- Roche anticoagulation training workshops for clinic staff delivered by specialist trainers, include subjects such as:
  - Training to local guidelines
  - Detailed product training
  - Refining and expanding an anticoagulation service
  - Mentoring
  - Follow up to review progress and provide refresher training

- University of Birmingham accredited Anticoagulation Management Training Courses for HCPs:
  - Patient self-testing/management training (train the trainer)
  - 3 day oral anticoagulation management training

- Ongoing in-clinic training support from Roche Diagnostics representatives

Whether you are considering NPT or recommending CoaguChek to your patients for self-testing, please call 01273 484567 or contact your Roche Diagnostics representative for more information.
CoaguChek for:
- A patient centred service in anticoagulation therapy
- Confidence
- Improved clinical outcomes
- Unrivalled support

A complete range for patients and practice:
- CoaguChek S: fast and accurate INR results for both near-patient testing clinics and patient self-testing
- CoaguChek XS: state of the art technology with the accuracy, safety and convenience essential for effective patient self-testing
- CoaguChek XS Plus: high specification meter for use in primary and secondary care

References:

To improve the quality of our service, calls received or made by Roche Diagnostics may be recorded.
RocheChek and 'Because it's my life' are registered trademarks of the Roche Group