

**“I know my value”**

A middle-aged man with short grey hair, wearing a light blue button-down shirt, is looking directly at the camera. He is holding a white rectangular sign in front of his chest with both hands. The sign has the number "2.6" written on it in a dark blue, cursive script. The background is a blurred clinical or laboratory setting with shelves containing various items.

2.6

## **CoaguChek<sup>®</sup> XS Pro system**

*The smart way to manage  
your anticoagulation clinic*

# CoaguChek® XS Pro system

## *A barcode scanner can make a difference*

There has been an extraordinary increase in the use of vitamin K antagonists (VKAs), driven mainly by an aging population. Millions of people worldwide are now taking VKAs for a variety of indications, e.g. atrial fibrillation (AF), deep vein thrombosis (DVT), pulmonary embolism (PE), and the presence of a mechanical heart valve (MHV).

To best monitor the efficiency of VKAs, an international normalized ratio (INR) is frequently required. This test can be done in your clinic, using a small drop of blood from your patient's fingertip.

This allows you to adapt the VKA dose on the spot – you can check compliance and spend quality time with a better protected and more satisfied patient.

Since 1993, CoaguChek systems from Roche have set the standard in point-of-care INR testing for patients on oral anticoagulant therapy – giving clinicians confidence in making critical treatment decisions. More than two million patients on VKA around the world are currently tested with a CoaguChek system: you can feel confident that you are making the right decision when selecting today a CoaguChek XS Pro system.

### **A few easy steps**



1) Automatic switch-on of the CoaguChek XS Pro system by insertion of the test strip.



2) Virtually pain-free lancing with a lancing device approved for professional use (e.g. the Accu-Chek® Safe-T-Pro Plus).



3) Top- or two-side dosing option for easy application. One small drop of blood (8 µL). Built-in quality control on every strip.



4) INR results within seconds.

### **A barcode scanner can make a difference!**

For busy general practitioner (GP) practices or anticoagulation clinics, high patient throughput can be a challenge. The integration of patient barcode scanner and operator identification enhances both safety and workflow.

Connectivity is straightforward via various ports, whether to the Roche Point-of-Care Data Management Solution (**cobas IT 1000** application) or to your network. Electronic capture improves your practice management.



*More than 2 million patients on vitamin K antagonists around the world are testing with a CoaguChek® system*



# CoaguChek® XS Pro system

## *Offers you more...*

### ... **safety**

- Onboard control on every strip in the measuring channel:  
no need to run liquid controls
- INR compares very well with CoaguChek XS Plus system<sup>1</sup>
- Possibility to test and modify VKA dose on the spot in one appointment
- Optional liquid quality control (QC) to meet possible regulatory requirements
- Optional operator & QC lockouts
- Patient and operator ID scanning prevents errors
- Frequent testing:
  - allows timely dosage changes
  - increases time in therapeutic range<sup>2</sup>
  - reduces adverse events<sup>3</sup>

### ... **improved workflow**

- Automated identification by barcode scanner for
  - Operator
  - Patient
- Data transfer to Laboratory Information Systems (LIS) with optional Handheld Base Unit connected to **cobas IT 1000** application or local data management solution

### ... **confidence**

- Over 20 years of experience from Roche in INR monitoring
- Over 2 million patients tested on a CoaguChek system
- Easy documentation and reporting with the optional Handheld Base Unit
- Up to 2,000 test results stored to review trends
- Increased patient compliance
- Consistency of results – all tests come from a single source
- More control of your patients' compliance and condition
- More quality time with patients

### ... **convenience**

- About 1 minute to get an accurate INR result
- Tiny fingerstick sample – 1 drop (8 µL) of capillary whole blood
- Virtually pain-free sampling with a lancing device such as the Accu-Chek Safe-T-Pro Plus – No need for venous blood sampling
- Easy blood application: top- or sidedosing options, outside the meter to prevent cross-contamination
- Touch screen with icon-based LCD display
- Up to 60 calibrations stored on code chip
- Strips stable for up to 21 months



*Point of Care INR testing using the CoaguChek XS Pro system can significantly improve patient safety and quality of life.*

# CoaguChek<sup>®</sup> XS Pro system

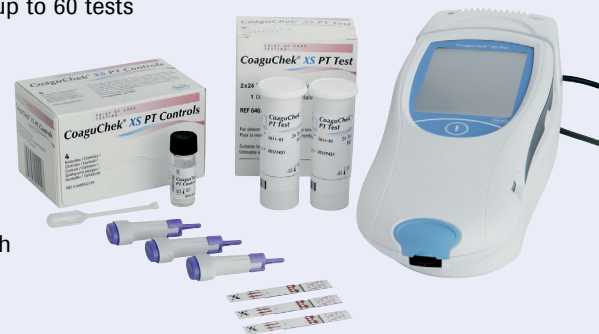
*The smart way to manage  
your anticoagulation clinic*

## CoaguChek XS Pro meter

|                                 |  |
|---------------------------------|--|
| Test principle                  | Electrochemical determination of international normalized ratio (INR) after activating coagulation with human recombinant thromboplastin |
| Turnaround time                 | Approximately 1 min.   |
| User interface                  | Full graphical TFT colour touch screen   |
| Memory capacity                 | 2,000 patient and 500 QC results with date and time  |
| Auto power                      | Auto-on with strip insertion;<br>auto-off programmable 1– 60 min.  |
| Power supply                    | 4 x 1.5 V AA batteries or<br>optional rechargeable battery pack  |
| Battery life                    | Up to 80 tests on batteries, up to 60 tests<br>per cycle on battery pack   |
| Operating temperature           | +15 °C to +32 °C   |
| Operating relative humidity     | 10 % to 85 %   |
| Operating maximum altitude      | 4,300 m  |
| Dimensions                      | 231 x 97 x 43 mm   |
| Weight                          | 350 g (without batteries)  |
| Connectivity                    | To computer/LIS/HIS through<br>optional <b>cobas IT 1000</b>   |
| Patient/Operator identification | Integrated barcode scanner   |

## CoaguChek XS PT test

|  |   |
|--|---|
| Blood sample size                        | 8 µL  |
| Sample types                             | Capillary whole blood or non-anticoagulated venous<br>whole blood   |
| Blood application                        | Top- and 2 side-dosing options, outside the meter   |
| Measuring range                          | INR: 0.8 – 8.0  |
| International<br>sensitivity index (ISI) | Approximately 1.0 (in line with World Health Organization<br>(WHO) recommendation)  |
| Calibration                              | Master lot calibrated directly against international<br>reference method  |
| INR reproducibility                      | Coefficient of variation (CV) <4.5 % for capillary blood  |
| Heparin insensitivity                    | · Heparin concentrations up to 0.8 U/mL<br>· Low molecular weight heparins (LMWH) up to 2 IU/mL<br>antifactor Xa activity |
| Hematocrit range                         | 25 – 55 %   |
| Quality control                          | On-board control on every strip in the measuring channel  |
| Stability                                | 21 months from production (+2 °C to +30 °C)   |



## References

- 1 Plesch, W., Wolf, T., Dikkeschei, B. (2007). INR results of the CoaguChek XS Plus are equivalent to those of the CoaguChek XS system. Poster presented at the ISTH Congress, July 9, Geneva, Switzerland.
- 2 Matchar, D.B., Jacobson, A., Dolor, R., Edson, R., Uyeda, L. et al. (2010). Effect of home testing of international normalized ratio on clinical events. *N Engl J Med* 363, 1608-1620.
- 3 Heneghan, C., Alonso-Coello, P., Garcia-Alamino, J.M., Perera, R., Meats, E., Glasziou, P. (2006). Self-monitoring of oral anticoagulation: a systematic review and meta-analysis. *Lancet*; 367:404-411.

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**CoaguChek<sup>®</sup>**  
Because it's my life

A graphic element consisting of a wavy line that transitions from blue on the left to red on the right.