

Magnus Janzon, associate professor and Chief of Cardiology in Linkoping, is in charge of the study on the clinical decision support.

Computerized clinical decision support could prevent stroke

each year, nearly 20 percent are cau- of these patients actually received sed by atrial fibrillation. To combat the recommended treatment. this the county council in Östergötland, along with Cambio, have crea- and it occurs despite the fact that we ted a computerized clinical decision have scientific evidence of the benesupport, aimed at increasing the fits of anticoagulant medication, says prescription of blood-thinning med- Magnus Janzon, chief physician at roximately 30 000 Swedish stroke Magnus Janzon, is to make sure that ication, with the hope of preventing the cardiological clinic in Linköping. many cases of stroke.

ication to patients with atrial fibril- Janzon and his research colleagues the number of cases significantly Tomas Block, physician and chief lation has proved to be an effective at Region Östergötland have develo- by prescribing anticoagulants, says medical officer at Cambio, another way of preventing stroke. Because ped a new clinical decision support Magnus Janzon. of this Sweden's National Board of system together with Cambio. The The clinical decision support sys- the input they get from the doctors Health and Welfare has said that 80 idea behind the system is to gather tem, or CDS, is now the subject of using the system. For Tomas Block percent of all patients with atrial fibril- information from the patients' charts, a scientific study being conduc- this input is critical, because a good lation, and an elevated risk of stroke, in order to identify those who run ted in Östergötland. The county's user experience, he says, is the difshould be treated with blood-thin- a higher risk of suffering a stroke. health centers have been randomly

Of Sweden's 30 000 cases of stroke 2013 study, however, only 42 percent

It is a significant undertreatment.

Prescribing blood-thinning med- To deal with this issue, Magnus 6 000 patients. We could decrease ader implementation. According to ning medications. According to a By showing the physician that the divided into two groups, that have

suggesting a treatment through a pop-up window on the computer screen, the hope is that the prescription of anticoagulants will increase and that lives, thereby, will be saved.

- We know that out of the app- **The goal of** the study, according to

patient has an elevated risk, and both received information about the importance of prescribing anticoagulants. One group has also been equipped with the CDS, to see if it helps to increase prescriptions.

cases each year, at least one fifth are the system has the desired effect. caused by atrial fibrillation. That's before moving forward with a broinvaluable benefit of the study is ference between a successful and a failed system.

- I think that it's very good that they did a pilot study first, where they looked at how the system was used says Tomas Block.

The study will be concluded in are now expectantly looking forward January of 2017 but Cambio has to this August, when the results of the already noticed a great deal of interest from other counties, who already use their healthcare information system COSMIC. With all this interest zon, however, it is still the chance to the hope is that the decision support system might, in the future, be most. used to prevent strokes all over the Sweden. And significant interest for body else who has worked on this, this type of plattform has also been is that we can save lives. You don't noted in the UK and the US.

Microsoft. who develop the techni- in a better way can save many lives cal platform that Cambio's system is and spare people a lot of suffering. based on, also see a great potential in the CDS. According to Mathias Ekman, Industry Market Development Manager at Microsoft, the system fits well with Microsofts' own vision of the future of healthcare. - We want to democratize artificial intelligence and if you translate that into healthcare, it means some

kind of democratization och clinical knowledge. That is what this system does, it combines clinical knowledge and how it was perceived, instead of and research and brings it extremely just going for a wide launch directly, close to the physicians, he says.

With all this potential many people study will be revealed at the world's largest cardiovascular congress, ESC in Barcelona. For Magnus Janmake a difference that inspires the

- What has driven me, and everyhave do develop a new drug to save lives, simply using the existing drugs

FACTS

Cambio Cambio Healthcare Systems is one

of Scandinavia's leading suppliers of healthcare information systems and a growing player in the European market with just over 100,000 users across general and university hospitals, specialist units and outpatient units. Through the use of our integrated solutions, our customers provide services to 4 million patients.

The company started in 1993. We are growing continuously and currently have almost 400 employees globally with different backgrounds, skills and responsibilities, but who are all passionate about developing open and comprehensive e-healthcare solutions tailored towards the publicly-funded healthcare sector. We are geographically close to our Denmark, England and Sri Lanka.

Clinical Decision Support

A computerized clinical decision support service combines information that is specific to an individual patient, with regulations based on medical evidence, to provide guidance on compliance or advise on what is the best treatment for the patient.

Today there is overwhelming evidence that computerized clinical decision support improves patient safety and facilitates the use of evidence-based healthcare. It works best when it is seamlessly embedded in the workflow and does not need to be extracted from the medical record system or require data to be entered twice. COSMIC CDS is based on international standards and has been designed for easy integration with underlying, local medical records.

The product supports a learning organisation, where new knowledge in the form of customers with offices in Sweden. medical rules can continuously be added and guickly put to use in everyday clinical practice. COSMIC CDS can be used in all areas of healthcare, regardless of clinical specialty and organisational affiliation.

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