

J40 New Cardio Monitor

October 2009

Intro: 25 billion dollars. That's how much money is spent every year in the U.S. on patients with heart failure. Much of that money is used on hospital visits. Clinicians and researchers at Mayo Clinic are hoping to change that. They're testing a new device that can monitor patients at home in hopes of keeping them healthier and out of the hospital longer.

Video

Audio

Total running time 1:28

HEART FAILURE PATIENT CLIVE
KELLS SAYS THIS SMALL
MONITORING DEVICE TAPED TO
HIS CHEST IS LIKE A SECURITY
SYSTEM FOR HIS HEALTH.

CG :07 to :10

“YOU HAVE SOMEBODY RIGHT
THERE BY YOU ALL THE TIME.”

Clive Kells

Has heart failure

CG :10 to :14

“I LIKE TO THINK ABOUT IT AS
SORT OF LIKE A GUARDIAN
ANGEL.”

Charles Bruce, M.D.

Mayo Clinic

DR. CHARLES BRUCE AND
COLLEAGUES HAVE TEAMED UP
WITH ENGINEERS AT MAYO CLINIC
TO DESIGN A MONITOR THAT WILL
HELP PREVENT PATIENTS LIKE
CLIVE FROM HAVING

COMPLICATIONS THAT COULD PUT HIM IN THE HOSPITAL. THEY'RE CURRENTLY TESTING THE MONITOR IN THE HOSPITAL, BUT IN THE NEXT PHASE OF STUDY, PATIENTS WILL WEAR IT IN THEIR HOME. THE TECHNOLOGY MONITORS THINGS LIKE HEART RATE, BLOOD PRESSURE, ACTIVITY LEVELS AND BREATHING.

graphics:

- **Heart rate**
- **Blood pressure**
- **Activity levels**
- **Breathing**

CG :36 to :43

Christian Milaster
Project manager

“ALL THOSE PARAMETERS WILL HELP US TO SEE IF THE CONDITION OF A CONGESTIVE HEART FAILURE PATIENT WORSENS.”

Standup

CG :43 to :50

Vivien Williams
Reporting

IT WORKS SORT OF LIKE THE SYSTEM CHECK IN YOUR CAR. THE COMPUTER MONITORS THE ENGINE CONSTANTLY AND IF THERE IS A PROBLEM, IT LETS YOU KNOW. IN THE SAME WAY, THE

Charles Bruce, M.D.
Mayo Clinic

DEVICE MONITORS THE PATIENT CONTINUOUSLY AND SENDS INFORMATION TO A LOCATION WHERE TRAINED TECHNICIANS ASSESS THE DATA.

“DEPENDING ON THAT INPUT WE CAN DETERMINE WHETHER THE PATIENT NEEDS TO SEE THEIR PHYSICIAN. OR MAYBE WE’D UP THEIR MEDICATIONS TO TRY TO PREVENT THEM FROM HAVING TO COME IN TO THE HOSPITAL IN THE FIRST PLACE.”

THE TECHNOLOGY IS ALSO INTERACTIVE. IF THE MONITOR SENSES, SAY, INCREASED HEART RATE, IT ASKS CLIVE ABOUT SYMPTOMS AND SENDS THAT INFO IN TOO. THE TECHNOLOGY ACTS AS A HOME HEALTH SECURITY CHECK TO PREVENT BAD EVENTS FROM HAPPENING.

“IT WILL HELP PEOPLE”

FOR MEDICAL EDGE, I'M VIVIEN
WILLIAMS.

Anchor tag:

Right now Dr. Bruce and his team are using the device for congestive heart failure patients only. But in the future the goal is to be able to monitor more to hopefully prevent illness, reduce the need for hospital visits and cut costs.

Other experts involved in this project are Dr. Paul Friedman, Dr. Virend Somers and engineer Kevin Bennet.

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