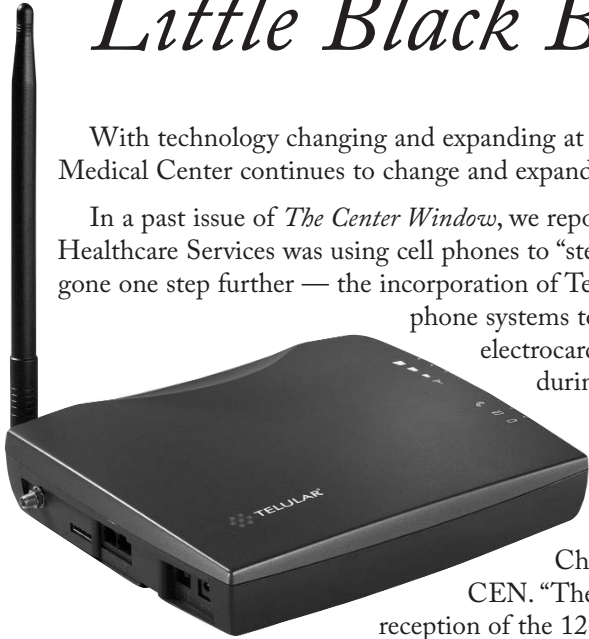


# What's So Special About This Little Black Box

With technology changing and expanding at lightning speed, South Georgia Medical Center continues to change and expand with it.

In a past issue of *The Center Window*, we reported that SGMC's Mobile Healthcare Services was using cell phones to "step-up" cardiac care. Well, now we've gone one step further — the incorporation of Telular® Fixed Cellular terminals and phone systems to transmit 12-Lead electrocardiograms (ECGs) from the field during cardiac emergencies.



"We started using the cell phone system in 2000 and were one of the first ambulance services in this area to use that technology," said Charles Wilson, NREMT-P, RN, CEN. "The cell phones provided good reception of the 12-Lead ECGs and were instrumental in providing accelerated cardiac care to those who needed it.

However, there were times when an ambulance would enter an area where there was poor or no reception, which gave us a bit of trouble when transmitting. But now, with this new fixed cellular technology, we have stabilized, consistent cellular reception."

As the Clinical Coordinator for SGMC Mobile Healthcare Services, Wilson is continually seeking new information and technology to enhance SGMC's quality services. "We are constantly challenging ourselves, in addition to facing new challenges in the field, and our mission is to raise the standard of care through technology and advanced education," Wilson stated. "Currently, 12-Lead field assessments are the standard of cardiac evaluation all across the EMS community and our continued goal is to manage chest pain patients even more efficiently. Not only is it important to get the patient's information transmitted ASAP for physical stability, we are also concerned with making the patient emotionally stable and as comfortable as possible, as quickly as possible. This new technology enables us to do that."

"I have high hopes for our use of this cellular fixed wireless technology in the future. There is great anticipation of having even more diagnostic abilities," stated Wilson. "Some hospitals are using this technology to transmit digital ultrasound images, electronic patient data, 911 mapping systems, apartment layouts and more. The sky's the limit and I'm sure that SGMC will be at the forefront of whatever comes next."



## What is Cellular Fixed Wireless?

The concept of wireless telephone equipment typically brings up an image of people on cellular phones, but that is just one aspect of today's wireless technology. By using any existing cellular foundation, Telular Phonecell® Fixed Cellular Terminals and Fixed Cellular Phones can provide voice and data anywhere there is a cellular network signal. Fixed cellular solutions deliver an advantage to service providers by overcoming the limitations and cost as well as the availability or practicality of traditional wired services. The Telular technology is quick and easy to use for fast instant new revenue streams to cellular service providers around the world.

SGMC currently uses the **Phonecell® SX5T-500C Fixed Cellular Terminal**. The SX5T-500C and SX5T-505C are Telular Corporation's latest solutions for Fixed Cellular communications. This system provides exceptional voice quality, analog fax, 1X packet data, circuit-switched data, and PC fax. The SX5T can be utilized in a number of different applications including wireline replacement, portable dial tone, least cost routing and telemetry. The device can provide access to the Internet and email at rates as high as 144 Kbps (*network-dependent*).

### Features/ Benefits:

- Voice Communication
- Group 3 Analog Fax\*
- CDMA2000 1X Packet Data
- Circuit-Switched Data (*up to 14.4 Kbps*)\*
- PC Fax (*up to 14.4 Kbps*)\*
- Optional GPS/E-911 support
- Caller ID, call-waiting, and 3-way calling\*
- TTY/TDD

\* *network-dependent*

Information provided by

