Making Hypertension History

medical device designed to treat drug-resistant reduce the blood-pressure level. hypertension, or high-blood pressure.

Courage. Determination. And plenty of grit. Those are the neck) to the brain - to signal that an inappropriate just a few of Hazelene Jackson's traits that helped set increase in blood pressure has occurred. Once alerted. the stage for her to become the first patient in the brain rushes signals to all parts of the body - with Pennsylvania to be implanted with a still-experimental instructions to take whatever measures are necessary to

The RheosTM system includes an iPod-sized "pulse



University Hospital, was the man for the job.

'silent killer,' is the leading cause of stroke, heart attack, investigator for the study. heart failure, and kidney disease. For most of the estimated 72 million Americans diagnosed with the use of multiple drugs each day. However, for nearly onequarter of all such patients, no amount (or combination) of pills can effectively manage their disease.

natural regulation system to reduce high blood pressure as coinvestigator for the study. - which kicks in when electrical impulses race from

Of course, Jackson's pretty smart, too - so, before generator" that is implanted below the collar bone; two agreeing to enroll in the FDA-approved clinical trial, she thin electrode wires (connected to the pulse generator) sized-up the surgeon who would be performing the that are implanted and delicately wrapped around the delicate procedure. She quickly concluded that John baroreceptors on top of the left and right carotids, Blebea, MD, Professor & Chief of Vascular Surgery at respectively; and an external device used by physicians Temple University School of Medicine and Temple to non-invasively regulate the electrical energy from the pulse generator to the wires. "Think of it as a pacemaker Drug-Resistant Hypertension Hypertension, called the for blood pressure," says Blebea, who serves as principal

An Eager Participant

A resident of Northeast Philadelphia, Jackson was an chronic condition, treatment involves the use of ideal candidate for the innovative device. "She's had medications - which, in most instances, may require the severely high blood pressure since her 20s, with her most recent average monitored at 215 [systolic] over 110 [diastolic]," explained Arnold Meshkov, MD, her Temple cardiologist, adding that a normal reading is about 160 And that's the precise patient population – those with over 90. "She's also been evaluated by multiple physicians, drug-resistant hypertension - that the device, called the been hospitalized multiple times, suffered a serious stroke RheosTM system, hopes to treat. Ratherthan rely totally in September of 2004, and has been taking up to seven on drugs, the system is designed to jump-start the body's different medications a day," added Meshkov, who serves

In addition, as part of the side effects of taking so many baroreceptors (nerves nestled in the carotid arteries of pills, Jackson's energy had been zapped - so much so

that she had severely limited many of her favorite activities-including cooking, gardening, dancing, deepsea fishing, and playing with her four grandchildren. "Oh, and I love to gamble ... just love the slots!" she laughs.

Consequently, Jackson was eager to participate in the study. "I feel like I'll be giving birth to a solution to my problem. And even if it doesn't work for me, others will benefit from what the doctors learn."

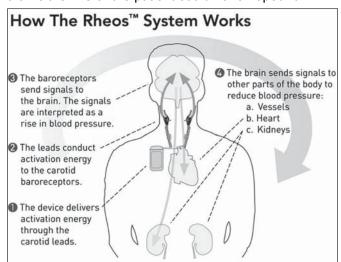
The Pioneering Surgery

In the early morning hours of December 17, 2007, Blebea methodically prepared for Jackson's surgery. His sole objective was to successfully implant the medical device and its ancillary wires into his 53- year-old patient.

Five hours later, Blebea reported, "Everything went according to plan. There were no surprises - which is

His patient concurred. Just two days after surgery, she appeared - along with her husband Elijah, and daughter Marie – before a roomful of local reporters to announce that she felt "fantastic!"

As part of the research study's protocol, the system is not activated until 30 days after surgery, to allow the patient to heal. So, one month after her implant, Jackson returned to Temple University Hospital to have her pulsegenerator started. "Upon turning on the stimulator, we successfully decreased her blood pressure from 200/101 to 120/75 - normal!" said Blebea. "The effect was better than either we or the patient could have hoped for.



"Not only was her blood pressure within the normal range for the first time in decades," he continued, "but it was taking place without any side effects or symptoms of any kind. Furthermore, it was achieved with only a moderate level of stimulation."

At press time, Jackson's blood pressure has remained consistently normal, based on daily readings. Her Temple doctors will continue to carefully monitor her pressure for the next year.

For Hazelene Jackson, though, the immediate results have been optimal. "I already feel like I've been given a new lease on life," she said, adding that she also dropped seven pounds and quit smoking - cold turkey. "And I'm cha-cha-cha'ing again!" she added, with a wink.

Rebecca Harmon

Government optimism

The Romanian Business and Investment Roundtable, held by The Economist recently in Romania, discussed the impact of global warming on the Romanian economy, improving the competitiveness on the market, better collaboration between businesses and government, as well as 1.9 pc against 2006 encouraging foreign investment. Among the the last 3 years, Romania had an economic Institute of Statistics (INS) reported. growth above the EU average, and that will continue".

or Italy". The IT area is one good are for due to drought. Romania, which now ranks 3rd in Europe last year.

ECONOMIC OFFICE'S NEWSLETTER

March 2008

Quote of the month: "In the last 3 years, Romania had an economic growth above the EU average, and that will continue", Prime Minister Calin Popescu Tariceanu, during a roundtable held by The Economist.

speakers at the event were the prime to RON 404.7 bln last year, and the economic 2008, CNP projects an economic growth of this year from December of 2007, INS also minister, Calin Popescu Tariceanu, reiterated growth reached 6 per cent, down 1.9 per cent 6.5 per cent, higher than last year's, unless shows. Compared to January 2007, the the progress made by the country lately: "In from 7.9 per cent in 2006, the National agriculture faces problems again.

During O4 of last year, the estimated 29 pc GDP came to RON 137.76 bln, up 6.6 per Tariceanu also talked about Romania's cent from the year-earlier period, in real terms. rose 29 per cent last year, to RON 68.3914 priorities for this year, such as improving The level of economic growth was close to bln, from 2006, with industrial investments overall increase. health, infrastructure and agriculture, as well that predicted by the National Commission standing at the top, 39 per cent, followed by as rural development. Another topic was the of Prognosis (CNP), which forecast a GDP trade, 34.07 per cent, according to provisional units Romanian labor market: "Salaries in rise of 6.1 per cent in real terms. data released by INS. Romania have long stopped being "social Constructions, services and industry were the assistance", right now they are the reward sectors which saw the highest increase - 34.4 RON 31.04 bln, up 31.35 from 2006. of which 90 per cent were made from for profitability, and in some areas Romania per cent, 7 per cent and 5.6 per cent According to INS, investments focused on private funds, according to INS. has salaries comparable to the ones in Spain respectively. Agriculture fell by 18.3 per cent industry, wholesale and retail trade, car and Constructions in urban areas accounted for

when it stood at nearly EUR 98 M. Also, the investments, according to a study conducted rise, about 2,000 homes

6 pc economic growth in 2007, down INS revised up economic growth data for Romania's Gross Domestic Product rose the latest estimate at RON 344.53 bln. For registered a 2.3 per cent rise in January of

motorcycle repairs, personal assets, 47.7 per cent of all the built housing, up 21 Last year's GDP calculated at the annual constructions, transport, storage and per cent from a year before. The number in terms of experts, Tariceanu said. The average exchange rates announced by the communications, and social security in the of houses erected in rural areas equaled premier also mentioned the construction National Bank of Romania (BNR) came to public sector. Romania is among Europe's top 23,061 units, up nearly 10 per cent from sector, which has had 30% growth in the EUR 121 bln, up 24.1 per cent from 2006, 10 countries in terms of direct foreign 2006. Bucharest-Ilfov noticed the highest

by the consulting company OCO Global, quoted by Mediafax. The number of registered tourists in January was 383,400 higher by 6.9 per cent against the similar period in 2007. January industry prices up 13 pc from year-earlier rate

The overall prices of industrial products 2006 from 7.7 per cent to 7.9 per cent, with on the domestic and foreign market extractive sector proved as the most Last year's economic investments up dynamic, 16 per cent, followed by the manufacturing sector, 14 per cent. Investments made in the economic sector Electricity, heat, gas and water registered price rises of 5.1 per cent, lower than the

Homes built last year reached 45,867

In 2007, there had been built 7,689 more Investments in new constructions totaled homes than in 2006, to 45,867 finished units,

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