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NEW BLOOD TEST FINDS ALLERGIES *BEFORE* IMPLANT SURGERY

A growing number of patients learn of allergies to new hips & knees only after surgery is done

DENVER, CO - March 15, 2013 -- Imagine what Paula Spurlock must have been going through. Shortly after having a hip replaced in 2011, the trouble started. "I had horrible itching, really bad migraines and intense pain throughout my body," she said. "I couldn't take it. Every single thing in me itched."

After many months and several trips to specialists, Spurlock was told it could be anything from food allergies to her medication. But no matter what she changed, the symptoms persisted and Spurlock resigned herself to a life of misery. "I just kind of thought that's what life was going to be like," she said.

Then, she got a phone call. "I had a PET scan for a lung problem and they said, 'Paula, what's going on with your right hip?' I told them I had it replaced and they said, 'Well, it lights up on your PET scan.'"

More than a year after it was implanted, tests showed Paula was highly allergic to the metal in her new hip and to the surgical cement often used to hold joints in place. "That's the one thing that never occurred to any of us," she said. "No wonder I was miserable."

It's a problem that is sure to get worse in the coming years. By 2030, the demand for hip and knee replacements in the U.S. will skyrocket. More than 11,000 people a day are expected to have implant surgeries by then, an increase of 174 percent for hip replacements and nearly 700 percent for knees.

"It's huge," said [Karin Pacheco, MD](#) an allergist at [National Jewish Health](#) in Denver. "We are an aging society, and the number of people who need new joints is going to increase and, for some of these people, they won't know that they're allergic until after the implant is put in."

"Nine out of 10 people who get implants do great," said Pacheco. "But 10 percent don't, and they're miserable."

The best way to tell if someone is allergic is to do a skin patch test. "But not everybody knows how to do it, not everybody has access to the right antigens, and it also takes about a week to do," she said. "Not everybody has that kind of time before their surgery."

So, Pacheco and her team at National Jewish Health have come up with an alternative, developing the first blood test that can detect allergies to nickel.

Nickel is not only one of the most common metals used in joint implants, but it's also the most common contact allergen in the U.S. "We think about 15 percent of the population is sensitized to nickel," she said.

Pacheco says there are many advantages to the concept of using a blood test to check for allergies before surgery. "First of all it's much easier," she said. "You can send the blood in and it will get developed quickly, and you won't need to have somebody available who knows how to do the patch testing." Then, if an allergy is detected, patients could avoid the misery of an allergic reaction by choosing a different implant, and the health care system could save millions of dollars in revision procedures.

"If we find a patient is allergic after the fact, unfortunately, the only option right now is to take the joint out and replace it with something to which they're not allergic," said Pacheco. "It would be nice to get it right the first time."

Studies to evaluate the nickel blood test are continuing, and soon researchers here hope to develop blood tests to other allergens, like cobalt and bone cement.

After having her metal hip removed and replaced with a ceramic model, Paula Spurlock's life is back to normal. "I haven't had any migraines or itching or any problems," she said. "It's been wonderful." But, she cautions, if you even think you have an allergy to metal, get it checked out before implant surgery. "It's really important that we get that out there," she said, "so others can avoid all the things that I went through. It was a very long and miserable year and half."

Researchers hope the blood test will be approved and widely used in the next couple of years.

National Jewish Health is known worldwide for treatment of patients with respiratory, cardiac, immune and related disorders, and for groundbreaking medical research. Founded in 1899 as a nonprofit hospital, National Jewish Health remains the only facility in the world dedicated exclusively to these disorders. *U.S. News & World Report* has ranked National Jewish Health the number one respiratory hospital in the nation for 15 consecutive years.

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