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NANCY LUHELLIER’S DOG ATE HER NOSE.

Luckily for her, University of Florida Anaplastologist Robert Mann can make her a new one.

LuHellier’s nose was, and is again, a work of silicone art fashioned by Mann and UF Associate Professor of Prosthodontics Glenn Turner. The two comprise the College of Dentistry’s Maxillofacial Prosthetics Service, where people whose faces are ravaged by cancer, trauma or birth defects come to regain their identity.

Two years ago when LuHellier learned a cancerous tumor was going to require surgery that would remove most of her nose, as well as much of her upper palate, she couldn’t imagine joking about it.

“I was heartbroken,” says LuHellier, of Hawthorne, Fla. “I couldn’t stand the thought of seeing myself that way.”

In fact, for weeks after her surgery, LuHellier was afraid to look at herself in the mirror, and when she did she says she cried for hours.

But as soon as the surgery had healed, Turner and Mann began restoring LuHellier’s face. They had laid the groundwork before the surgery by making a mold of her real nose.

While she was undergoing radiation treatments, LuHellier wore an artificial nose attached to her glasses.
Robert Mann attaches Nancy LuHellier’s new prosthetic nose as prosthodontist Glenn Turner looks on. LuHellier, who says she was afraid to look in the mirror after she lost her nose to cancer, admires her new prosthesis (inset).
“No two surgeries are alike ... depending on the location and extent of the surgery. We look at what tissue is missing and what we have left to work with and we adapt to each patient.”
— Glenn Turner

“The skin is very sensitive and it has a sunburned tone to it during radiation therapy,” Turner says, “so we don’t do anything permanent until that has healed.”

Because the surgery required removal of much of LuHellier’s upper palate, Turner had to create a new upper denture to span the gap. Otherwise, he says, air and food could escape through the opening, making it difficult for her to eat or speak.

As part of LuHellier’s denture, Turner fashioned a plastic tab with a magnet about the size of a watch battery on it. This was the anchor for the prosthetic nose Mann would create. Whenever possible, Turner prefers to use implants or magnets in the patient’s face to attach a prosthesis. Another alternative is skin adhesive.

“No two surgeries are alike,” says Turner of the prosthodontic techniques he employs depending on the location and extent of the surgery. “We look at what tissue is missing and what we have left to work with and we adapt to each patient.”

With her surgery healed, her radiation treatments completed and the denture in place, LuHellier was ready for a new nose.

Mann says it takes two full days to create a nose prosthetic from scratch and about three days for an eye with an orbit. Like an artist restoring a canvas, Mann matches the silicone prostheses to the patient’s face, seeking just the right skin tone, then adding details like blood vessels and eyelashes.
The work requires great patience on the part of the subject and the artist. Patients like Robert Seaman, who lost his right eye, must sometimes stare unblinking for hours while Mann puts the finishing touches on a prosthetic to fill the empty socket.

Even tiny red blood vessels have been represented in the white of Seaman’s prosthetic eye, making it appear so real that most people would never guess otherwise once it is attached.

“Quite often, when patients get their prosthesis they just break down and cry,” Mann says.

“I look in the mirror now and know that’s not me,” LuHellier says, “but I can go to town and almost no one else knows it’s not me.”

Mann, who trained as a dental technician in his native Australia, was working in London when he was recruited to the Royal Perth Hospital in Perth, Australia, to study anaplastology.

“I was already painting,” he says, “and I was aware of anaplastology, so when I heard about the opportunity at Royal Perth, it seemed like a good opportunity to employ both my dental skills and my art talent.”

After working in Australia for several years, Mann eventually made his way to Gainesville, where he teamed up with Turner.

“We work very closely together,” Mann says of the relationship. “Between us we believe that we can handle almost any reconstruction. We plan it all the way through.”

While the end result is a work of art, some of the tools of Mann’s trade are amazingly simple.

Molds are made in electrical junction boxes which Mann says work just as well as costly brass boxes sold for that purpose. Since no two prostheses are the same, Mann bends coat hanger wire to support each unique creation while the hot silicone cools after being baked between each coat of paint.

“Although silicone has none of the properties of real tissue, we try to make it look as much like a patient’s own tissue as possible,” Mann says. “We build the effect up in layers, gradually adding color and texture, until we have close to a perfect match.”

LuHellier can attest to Mann’s artistic skill.

“I have had more people say they never would have known it was not my real nose if I hadn’t told them,” she says proudly. “My family was amazed when they first saw it.”

Turner says he decided to specialize in reconstructive dentistry while still in dental school at the University of Alabama and pursued the specialization as soon as he graduated in 1970. He spent five years at a Veterans Administration hospital and stints in private practice and at the University of Kentucky before coming to the University of Florida in 1984.

By the early 1980s, doctors at Shands Hospital were doing enough head and neck surgeries to justify an anaplastologist. Today, Turner and Mann treat about 80 patients a year.
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— Robert Mann