# Introduction to Upper-Limb Prosthetics: Part 1



by Douglas G. Smith, MD

Just as arms and legs are different, there's a world of difference between prosthetic devices for upper and lower limbs.

Basically, lower-limb prostheses are required to do two things: enable a person to stand and walk. But the demands of upper-limb prostheses are vastly different. As we've noted in our previous two articles, hands perform a wide variety of tasks, from the delicate and complex to the strong and forceful. An ideal prosthetic hand

would do all of these things. Unfortunately, we haven't yet created a device that can perform the tremendous array of functions routinely done by our natural hands.

The hand is also one of the most important elements of our self-image, second only to the face. Our hands are a tremendous part of how we present ourselves to others. In addition to interacting with the environment in so many functional ways, our hands are a significant part of our psychological and social selves, and are a vital element in our sense of feeling whole. Far more than lower-timb prosthetics, an ideal upper-timb prosthesis would have a life-like appearance, including skin tone, veins, hair texture and color, even wrinkles and creases, in addition to life-like power and functional ability.

#### There's No Substitute for the Real Thing

Despite the variety of upper-limb prostheses currently available, we still haven't figured out how to make one that duplicates what God gave us. Sensation, dexterity, grip pat-

terns — these are things nature provides that we just can't match electronically or mechanically. Eighteenth century poet and hymn writer William. Cowper said, "God made the country, and man made the town." What we create looks "manmade," for obvious reasons. We have a long way to go before the form and function of upper-limb prostheses come anywhere close to matching

those of a natural hand.

Like our hands, the joints in our upper limbs are capable of numerous movements. Your wrist bends and rotates. Your elbow does the positioning. Your shoulder moves forward, back, side to side, up, down and all around. It rotates. A prosthetic elbow bends and extends. A prosthetic shoulder goes forward and back. Prosthetic joints perform only a minimum of the functions of our complex natural joints. An artificial hand opens and closes — this is its site of control. If we could make a hand that could

# Notes From The Medical Director Upper Lim Prosthetics Part 2

**VM** Jensen

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