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

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Table of Contents Notes From The Medical Director Upper Lim Prosthetics Part

- 1. Understanding the eBook Notes From The Medical Director Upper Lim Prosthetics Part
 - The Rise of Digital Reading Notes From The Medical Director Upper Lim Prosthetics Part
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Notes From The Medical Director Upper Lim Prosthetics Part
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Notes From The Medical Director Upper Lim Prosthetics Part
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Notes From The Medical Director Upper Lim Prosthetics Part
 - Personalized Recommendations
 - Notes From The Medical Director Upper Lim Prosthetics Part User Reviews and Ratings
 - Notes From The Medical Director Upper Lim Prosthetics Part and Bestseller Lists

- 5. Accessing Notes From The Medical Director Upper Lim Prosthetics Part Free and Paid eBooks
 - Notes From The Medical Director Upper Lim Prosthetics Part Public Domain eBooks
 - Notes From The Medical Director Upper Lim Prosthetics Part eBook Subscription Services
 - Notes From The Medical Director Upper Lim Prosthetics Part Budget-Friendly Options
- 6. Navigating Notes From The Medical Director Upper Lim Prosthetics Part eBook Formats
 - o ePub, PDF, MOBI, and More
 - Notes From The Medical Director Upper Lim Prosthetics Part Compatibility with Devices
 - Notes From The Medical Director Upper Lim Prosthetics Part Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Notes From The Medical Director Upper Lim Prosthetics Part
 - Highlighting and Note-Taking Notes From The Medical Director Upper Lim Prosthetics Part
 - Interactive Elements Notes From The Medical Director Upper Lim Prosthetics Part
- 8. Staying Engaged with Notes From The Medical Director Upper Lim Prosthetics Part
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Notes From The Medical Director Upper Lim Prosthetics Part
- 9. Balancing eBooks and Physical Books Notes From The Medical Director Upper Lim Prosthetics Part
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Notes From The Medical Director Upper Lim Prosthetics Part
- 10. Overcoming Reading Challenges
 - $\circ\,$ Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Notes From The Medical Director Upper Lim Prosthetics Part
 - Setting Reading Goals Notes From The Medical Director Upper Lim Prosthetics Part
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Notes From The Medical Director Upper Lim Prosthetics Part
 - Fact-Checking eBook Content of Notes From The Medical Director Upper Lim Prosthetics Part
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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