肩関節の動き

九州大学大学院芸術工学府 谷 水 香奈美*
九州大学大学院芸術工学研究院 村 木 里 志**

Shoulder Joint Movements in Elderly while Taking off Pullover Short-Sleeved Shirts

Kanami Tanimizu* and Satoshi Muraki**

*Graduate School of Design, Kyushu University
4-9-1 Shiobaru, Minami-ku, Fukuoka 815-8540 Japan
**Faculty of Design, Kyushu University
4-9-1 Shiobaru, Minami-ku, Fukuoka 815-8540 Japan

Abstract

The motion of putting on and taking off clothes is performed daily, so clothing that can be changed easily should play an important role in the independence of the elderly. We analyzed the shoulder joint motion of 19 healthy elderly women (aged 70 to 78 years) while taking off two kinds of pullover short-sleeved shirts (T-shirt and tank top), and investigated the features of four methods of taking off shirts. Method 1 (pulling their arms through the sleeves first) required pulling their arms tightly, and method 2 (raising the front hem and lifting off the shirt) was found to be the easiest method for taking off a shirt in subjects with no mobility problems in the shoulder joints. Method 3 (raising the front hem and pulling their arms through) and method 4 (holding the back collar and pulling the shirt forward) did not require subjects to flex the shoulder joints to extreme angles. In addition, forward flexion and abduction of the shoulder joints while taking off T-shirts using method 2 were wider than with tank tops. Our results showed that the angle required of the shoulder joint while taking off shirts differs according to the four methods examined.

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