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Prevention from Slipping Down of Top Parts of Socks

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Abstract: In this study, to design and develop socks that provide wearing comfort, the way of preventing slipping down of socks top parts is investigated. The subjects are 10 males who walk on a running machine. With changing stitches of leg and heel parts partly in the socks, pressure values of top parts of socks during walking experiment are measured, and the slippage of the top are evaluated. The top part of socks becomes difficult to slip down with the purl stitches of leg part partly because of the decrease of extending down the leg part by the foot part. The variation of pressure values is large in the front region and the variation of pressure values is small in the back region during walking, because of the hardness of skin. When the movement of an ankle is strong, the slippage of top parts increases, but using stitches that have big extension decreases the slippage effectively.

Key Words: Slippage, Clothing pressure, Top parts of socks

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