



KEY WORDS

- ✓ Pain
- ✓ Nursing
- ✓ Cold application
- ✓ Hot application
- ✓ Vibration application

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INVESTIGATION OF THE EFFECT ON PROCEDURE TIME, VEIN VISIBILITY AND PAIN SEVERITY OF DIFFERENT NONPHARMACOLOGICAL METHODS USED IN PERIPHERAL INTRAVENOUS CATHETER APPLICATION

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THESIS ABSTRACT

A single-blinded randomized controlled trial. The study included 120 adults who were randomly selected between March and August 2023. One application group received local hot application, one group received local cold application, and one received local vibration using the Buzzy® device without cold application. The applications, to the site of the peripheral intravenous catheterization, lasted one minute. The control group the received standard peripheral intravenous catheterization application. The groups' venous dilation was assessed on the Vein Assessment Scale and the level of pain felt during catheterization was assessed using a Visual Analog Scale.

It was found that the venous dilation of the cold application group was significantly higher and procedure duration was shorter than that of the hot and vibration application groups, and its pain severity was significantly lower than that of the control group and the hot and vibration application groups. It was seen that there was no significant difference in venous dilation, procedure duration and pain severity between the hot application, vibration application and control groups.

APPLICATION AREAS OF THE THESIS RESULTS

Nurses could use short-term local cold application during peripheral intravenous catheterization in emergency units.

ACADEMIC ACTIVITIES

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