



We examined the feasibility of using a head-mounted display (HMD) to improve the ergonomics of sonographic-guided interventional procedures” Kaneko et al (2016).

Abstract:

PURPOSE: We examined the feasibility of using a head-mounted display (HMD) to improve the ergonomics of sonographic-guided interventional procedures.

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METHODS: Five physicians with experience of more than 20 central venous catheterizations participated in this study. Each participant performed five pairs of simulated jugular vein catheterization under sonographic guidance with and without the HMD. The procedure time was determined as well as the number of head movements, needle redirections, posterior wall punctures, and guidewire malpositionings.

RESULTS: All participants could perform simulated sonographic-guided catheterization using this HMD without turning their heads. There were no differences in the procedural time, the number of needle redirections, posterior wall punctures, and guidewire malpositionings.

CONCLUSIONS: The binocular optical see-through HMD could be adopted for sonographic-guided interventional procedures

Reference:

Kaneko, N., Sato, M., Takeshima, T., Sehara, Y. and Watanabe, E. (2016) Ultrasound-guided central venous catheterization using an optical see-through head-mounted display: A pilot study. Journal of Clinical Ultrasound. June 14th. .

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