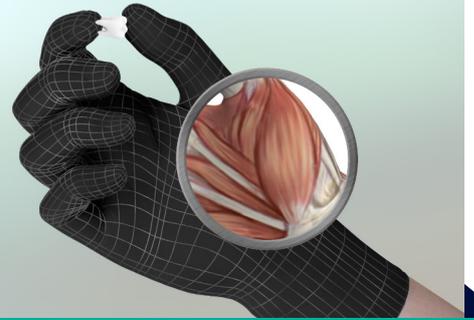


Ansell



ERGOFORM™
Ergonomic Design Technology



ERGONOMICALLY DESIGNED GLOVE SOLUTIONS TO MINIMISE WORK-RELATED INJURIES

Hand fatigue is a serious issue, work-related hand/wrist disorders develop from the physical clinical activities performed by healthcare professionals. Risk factors that may contribute to muscle fatigue and the development of Musculoskeletal Disorders (MSDs) of the hand include:

- exerting excessive force; excessive **repetition of movements**;
- awkward postures or **unsupported** positions;
- **static postures** or positions that a worker must hold for **long periods of time**;
- compression which can concentrate force on small areas of the body;
- **inadequate recovery time** due to overtime, lack of breaks, and failure to vary tasks;
- and **excessive vibration**, usually from vibrating tools/drills, which can decrease blood flow, damage nerves, and contribute to **muscle fatigue**.¹

These risk factors, either alone or in combination, can subject healthcare professionals' hands and wrists to thousands of repetitive twisting, forceful, or flexing motions during a typical workday. Additionally, when a glove is worn that restricts hand movement the healthcare workers must exert more muscle effort to perform procedures, thereby increasing the risk of strain which can lead to hand fatigue or injury such as the Carpal Tunnel Syndrome.²

The combined cost of lost wages and production, medical expenses and worker's compensation resulting from hand injuries results in a sizeable financial toll on individuals and employers.

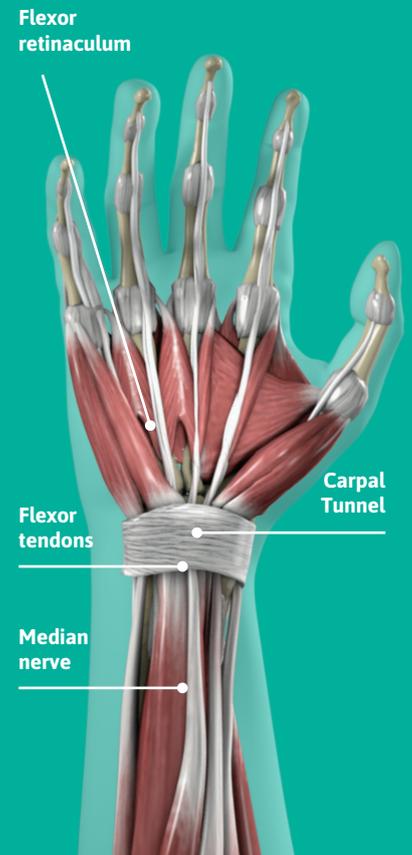
THE IMPORTANCE OF ERGONOMICS

Ergonomics is defined as 'an applied science concerned with designing and arranging things people use so that people and things interact most efficiently and safely'; also called biotechnology, human engineering, or human factors. Simply said, ergonomics is the practice of preventing work-related musculoskeletal disorders (WRMSDs).

Successful implementation of ergonomic practices increases productivity, reduces illnesses and injuries, and boosts satisfaction among dental professionals³. In contrast unsuccessful implementation of ergonomic practices can lead to WRMSDs.

ABOUT CARPAL TUNNEL SYNDROME

- Carpal Tunnel protects the Median Nerve and Flexor Tendons that bend the fingers and thumb.
- Carpal Tunnel Syndrome occurs when the tunnel becomes narrowed or when tissues surrounding the Flexor Tendons swell, putting pressure on the Median Nerve.



For more information, visit www.ansell.com

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ANSELL'S SOLUTION

ERGOFORM is a new technology that enables Ansell to design hand protection that supports musculoskeletal health during repetitive tasks and improves worker performance.



Ansell does this by measuring the toll of occupational activities and applying cutting-edge technologies to produce single use gloves with improved dexterity, comfort and fit when compared with barehanded and/or competitors' gloves.

Ansell's innovative **ERGOFORM™ Ergonomic Design Technology** has helped deliver improved range of motion and enhanced comfort in protective gloves that are used daily by most workers. Ansell factors in the ergonomics of the hand by accommodating its natural state and allowing for better freedom of movement to greatly reduce the stress placed on workers' hands. This prevents the occurrence of MSDs such as Carpal Tunnel Syndrome or tendinitis in the long term.

GLOVE RECOMMENDATION

MICROFLEX® 93-833	MICROFLEX® MidKnight™ Touch 93-732
<p>Ergonomically designed to reduce hand fatigue</p> <ul style="list-style-type: none">• Designed with ERGOFORM™ Technology to support musculoskeletal health and increase worker productivity• Thin mil design for exceptional tactile sensitivity• Strong formulation prevents rips and tears• Smartly packaged 250 gloves per box with easy, single glove dispensing to reduce waste• Low 0.65 AQL for allowable pinholes means exceptional barrier integrity  A hand is shown wearing a light blue nitrile glove. To the left is the product box for Microflex 93-833, which is blue and white. The box features the Ansell logo and text including "MICROFLEX 93-833", "ERGONOMIC DESIGN", "250", and "NITRILE".	<p>Provides excellent dexterity along with enhanced comfort fit and feel</p> <ul style="list-style-type: none">• Enhanced dexterity and tactility in a thin, yet strong design• Distinctive black color provides contrast while also hiding the appearance of oils, bodily fluids and other stains• ERGOFORM™ Design Technology reduces muscle strain during repetitive tasks, improving worker comfort and productivity• Textured on the fingertips for secure handling of instruments and materials• Silicone free to ensure advanced product protection  A hand is shown wearing a black nitrile glove. To the left is the product box for Microflex MidKnight Touch 93-732, which is black and white. The box features the Ansell logo and text including "MICROFLEX 93-732", "MidKnight™ TOUCH", "100", and "NITRILE".

References

- 1 Khanagar S, Rajanna V, Naik S, Jathanna VR, Kini PV, Reddy S. An Insight to Ergonomics in Dental Practice. *I J Pre Clin Dent Res* 2014;1(2): 35-40.
- 2 Haghghi B, Khosropanah H, Vahidnia F, Esmailzadeh S, Emami Z. Association of Dental Practice as a Risk Factor in the Development of Carpal Tunnel Syndrome. *J Dental Shiraz Univ Med Scien* 2013;14(1):37-40.
- 3 Gupta A, Bhat M, Bansal N, Gupta G. Ergonomists in Dentistry. *Int J Clin Pediatr Dent* 2014;1(1):30.

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