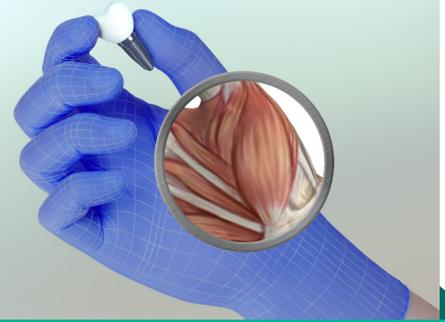


Ansell



**ERGOFORM™**  
Ergonomic Design Technology



## ERGONOMICALLY-DESIGNED GLOVE SOLUTIONS TO MINIMIZE WORK-RELATED INJURIES

Hand fatigue is a serious issue, work-related hand/wrist disorders develop from the physical 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**.<sup>1</sup>

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.<sup>2</sup> Between 23% and 40% of dentists and close to 75% of dental hygienists experience hand and wrist pain.<sup>3</sup>

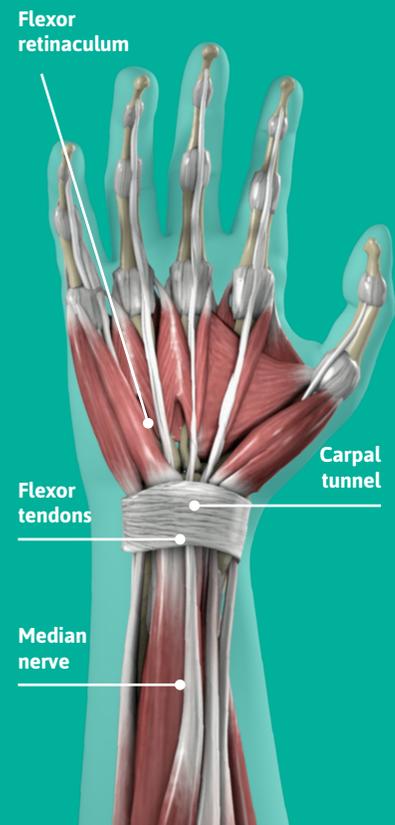
The combined cost of lost wages and production, medical expenses, and worker's compensation results in a sizeable financial toll on individuals and employers.

### THE IMPORTANCE OF ERGONOMICS

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 professionals.<sup>4</sup> In contrast, unsuccessful implementation of ergonomic practices can lead to WRMSDs.

### ABOUT CARPAL TUNNEL SYNDROME

- The carpal tunnel is a narrow passageway surrounded by bones and ligaments protecting 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.

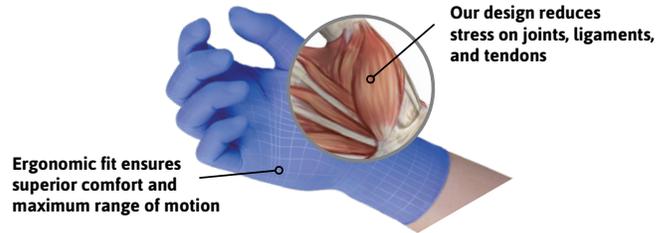


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## ANSELL'S SOLUTION

Ansell's ERGOFORM™ Design Technology reduces muscle effort to support musculoskeletal health, reduce injuries, and improve worker performance.



Ansell does this by measuring the toll of occupational activities and applying cutting-edge technologies to produce disposable gloves with improved dexterity, comfort, and fit when compared with 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® XCEED® XC-310	
<p><b>Ergonomically designed to reduce hand fatigue</b></p> <ul style="list-style-type: none"> <li><b>ERGOFORM™ Technology:</b> Ergonomic design supports musculoskeletal health</li> <li><b>Thin-mil design:</b> Provides enhanced tactile sensitivity</li> <li><b>Low AQL:</b> 0.65 AQL for allowable pinholes means exceptional barrier integrity</li> </ul>	
<p><b>MICROFLEX® Ultraform™ UF-524</b></p> <p><b>Offers excellent dexterity and comfortable hand protection with an ergonomic design</b></p> <ul style="list-style-type: none"> <li><b>ERGOFORM™ Technology:</b> Ergonomic design supports musculoskeletal health</li> <li><b>Thin and soft design:</b> For superior tactility and comfort</li> <li><b>Available in half sizes:</b> Ensures a perfect fit</li> </ul>	
<p><b>MICROFLEX® MidKnight™ TOUCH 93-732</b></p> <p><b>Nitrile exam gloves with excellent dexterity along with enhanced comfort, fit and feel</b></p> <ul style="list-style-type: none"> <li><b>Thin durable design:</b> Offers strength, dexterity and tactility</li> <li><b>Black nitrile:</b> Hides oils, bodily fluids and other stains</li> <li><b>ERGOFORM™ Technology:</b> Ergonomic design supports musculoskeletal health</li> </ul>	
<p><b>MICROFLEX® NEOGARD™ TOUCH 73-737</b></p> <p><b>Ultralight, comfortable neoprene exam gloves certified for exceptional wet grip</b></p> <ul style="list-style-type: none"> <li><b>ERGOFORM™ Technology:</b> Extra comfort and reduced muscle effort</li> <li><b>US Ergonomics certification for wet grip:</b> Enhanced grip performance</li> <li><b>Thin, ultra-lightweight design:</b> Heightened tactile sensitivity</li> </ul>	
<p><b>MICROFLEX® NEOGARD™ C52</b></p> <p><b>Ergonomically designed with exceptional grip</b></p> <ul style="list-style-type: none"> <li><b>ERGOFORM™ Technology:</b> Ergonomic design supports musculoskeletal health</li> <li><b>Textured outer finish:</b> Certified by U.S. Ergonomics for exceptional wet grip</li> <li><b>Pliable neoprene material:</b> Provides tactile sensitivity &amp; comfort</li> </ul>	

**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. Haghig 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 Sci* 2013;14(1):37-40. 3. <https://dentalacademyofce.com/courses/1878/pdf/handandwristpain.pdf> 4. Gupta A, Bhat M, Bansal N, Gupta G. Ergonomists in Dentistry. *Int J Clin Pediatr Dent* 2014;1(1):30.

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