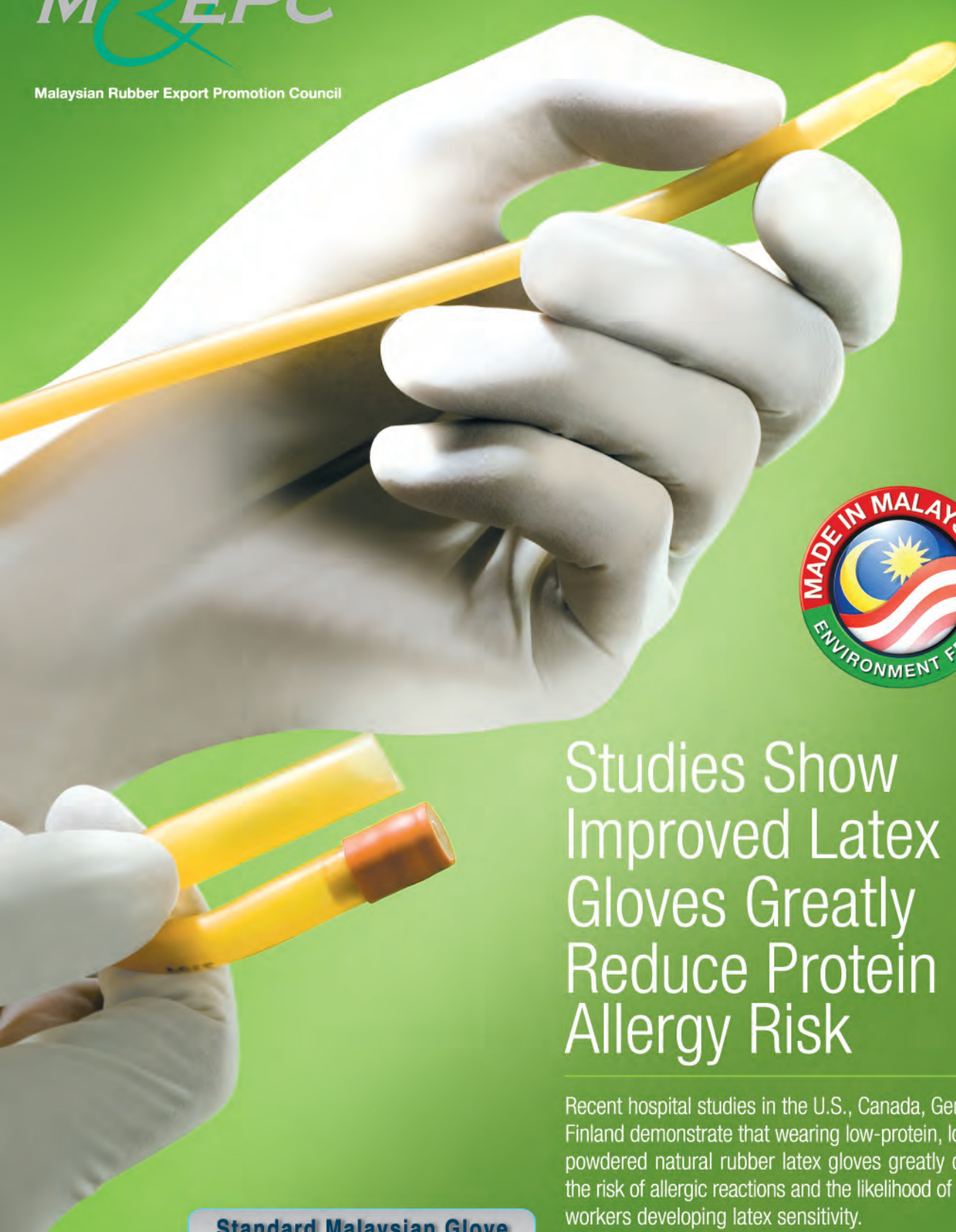




Malaysian Rubber Export Promotion Council



Studies Show Improved Latex Gloves Greatly Reduce Protein Allergy Risk

Recent hospital studies in the U.S., Canada, Germany and Finland demonstrate that wearing low-protein, low or non-powdered natural rubber latex gloves greatly diminishes the risk of allergic reactions and the likelihood of healthcare workers developing latex sensitivity.

Standard Malaysian Glove



POWDER-FREE



POWDERED

Your Choice for Quality



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A number of studies, seven of which are cited here¹⁻⁷, show that it is possible for many latex-sensitive individuals wearing synthetic gloves to work alongside colleagues wearing low-protein latex gloves without suffering allergy symptoms. At least one study shows that many latex-allergic healthcare workers under study were able to work safely wearing low-allergen powdered gloves while performing their work assignments. Only a few who had experienced previous anaphylactic reactions needed non-latex gloves, and the study also reported that even these workers did not experience symptoms from low-allergen latex gloves worn by co-workers. Through the adoption of advanced manufacturing technologies, the protein content of latex gloves can be greatly reduced from about 2,000 micrograms/gm to 50 micrograms or less, especially for powder-free latex gloves (as estimated by the Modified Lowry Test). "The availability of these improved latex gloves makes it possible for the majority of the health care personnel who are not latex sensitive to continue to rely on the proven barrier protection of natural rubber latex gloves without heightened allergy concerns," says Dr Esah S. Yip, a research scientist and chemist, who is the director of the Malaysian Rubber Export Promotion Council in the United States. Malaysia is the largest exporter of medical gloves to the U.S., Europe and elsewhere.

The use of low-protein/low-allergen latex gloves is consistent with recommendations by the U.S. National Institute for Occupational Safety and Health (NIOSH) and the Occupational Safety and Health Administration (OSHA). Both of these agencies urge the use of appropriate barrier protection when handling infectious materials and recommend that those who use natural rubber latex gloves choose powder-free gloves with low protein content. The American College of Allergy, Asthma and Immunology (ACAAI) and the American Nurses Association (ANA) likewise urge the use of low-allergen and/or powder-free options when latex gloves are used.

Dr. Yip points out that workers who must wear synthetic alternatives should take care as to which gloves they choose because synthetics vary greatly in barrier performance, depending on the type of material used.

For example, 12 scientific studies published between 1989 and 2002 found vinyl gloves, the most commonly used synthetic, to be significantly inferior in barrier protection against viral transmission compared to latex gloves. Nitrile gloves, the second most used substitute, demonstrated comparable barrier performance to latex. But nitrile gloves are more expensive than either vinyl or latex.

Latex allergy became an issue for health professionals with the start of the AIDS epidemic, when high-powder, high-protein medical gloves flooded the market. The naturally occurring proteins in latex often adhered to the powder used to make the gloves easier to put on, and could be dispersed into the air. About 1 percent of the general population and between 3 and 16 percent of healthcare workers are estimated to be sensitive to latex proteins or to have latex sensitivity⁸. Although modern technology now makes it possible to minimize such protein uptake by the powder and significantly reduce aeroallergenicity, many healthcare workers are not aware that today's improved gloves are safer.

Concerns about latex allergies prompted the Rubber Research Institute of Malaysia to develop a new program for low-protein, low-powder and powder-free latex examination gloves. Formulated in consultation with the U.S. Food and Drug Administration and other relevant authorities, today's Standard Malaysian Glove (SMG) is intended to help consumers in their glove selection. For gloves to bear the SMG seal, they must meet stringent barrier and tensile strength specifications as well as rigorous standards for low-protein and powder content. SMG gloves are available in the United States, Europe and elsewhere.

More information is available at: www.mrepc.com, www.latexglove.info and www.smg-online.biz

References:

1. Tarió SM, Eastly A, et al. Outcomes of a Natural Rubber Latex Control Program in an Ontario Teaching Hospital. University Health Network and Department of Medicine and Public Health Sciences, University of Toronto Published in the Journal of Allergy, Clinical Immunology, 2001; Vol. 108:628-633. 2. Rueff F, Schopf P, et al. Parameter of Natural Rubber Latex Sensitization Decrease in Healthcare Workers (HCW) Following Reduction of NRL Exposure. Dermatologie und Allergologie, Ludwig-Maximilians-Universität, Munich, Germany. Presented at the 56th annual meeting of the American Academy of Asthma, Allergy and Immunology (AAAAI) in 2000. 3. Hunt, LW, Kalker P, Reed, CE, et al. Management of Occupational Allergy to Natural Rubber Latex in a Medical Center: The Importance of Quantitative Latex Allergen Measurement and Objective Follow-Up. J. Allergy Clin, Immunol. 2002; 110:594-106. 4. Allmers H, Schmengler J, et al. Primary Prevention of Natural Rubber Latex Allergy in the German Healthcare System Through Education and Intervention. J. Allergy and Clin, Immunol. 2002; 110(2):318-323. 5. Turjanmaa K, Kanto M, et al. Long-term Outcome of 160 Adult Patients with Natural Rubber Latex Allergy. J. Allergy Clin, Immunol. 2002; 110:570-74. 6. Allmers H, Breshler R, et al. Reduction of Latex Aeroallergens and Latex-specific IgE Antibodies in Sensitized Workers After Removal of Powdered Natural Rubber Latex Gloves in a Hospital. J. Allergy Clin, Immunol. 1998; 102:841-846. 7. Kelly K.J., Klancnik M., Kurup V., Barrios-Jankol C., Fink J.N. and Peterson E.L. A Four-year Prospective Study to Evaluate the Efficacy of Glove Interventions in Preventing Natural Latex Sensitization in Healthcare Workers at Two Hospitals. J Allergy Clin, Immunology. 2003; Vol. III, Part 2. #2, No. 426. 8. Turjanmaa K, Alenius H, et al. natural Rubber Latex Allergy (Review). Allergy 1996; 51:593.

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