Nanoparticles

COHORT PROFILE: THE TAIWAN NANOMATERIAL HANDLING WORKERS COHORT STUDY (TNHWCS)

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Introduction This cohort was established to evaluate whether engineered nanoparticle (ENPs) exposure is related to long-term health risk in workers engaged in nanomaterials.

Methods This cohort study enrolled workers handling nanomaterials (n=258) and control workers (n=200) from 14 nanomaterial manufacturing and/or handling factories in Taiwan since 2009. The factories were involved in toilet ceramic coating, nanofiber injection, and the production of semiconductor materials (n=258) and control workers (n=200) from 14 nanomaterial manufacturing and/or handling factories in Taiwan since 2009. The factories were involved in toilet ceramic coating, nanofiber injection, and the production of semiconductor... and Community Medicine, Tri-Service General Hospital, National Defense Medical Center, Taipei, Taiwan (n=200) from 14 nanomaterial manufacturing and/or handling factories in Taiwan since 2009. The factories were involved in toilet ceramic coating, nanofiber injection, and the production of semiconductor materials (n=258) and control workers (n=200) from 14 nanomaterial manufacturing and/or handling factories in Taiwan since 2009. The factories were involved in toilet ceramic coating, nanofiber injection, and the production of semiconductor materials (n=258) and control workers (n=200) from 14 nanomaterial manufacturing and/or handling factories in Taiwan since 2009. The factories were involved in toilet ceramic coating, nanofiber injection, and the production of semiconductor materials (n=258) and control workers (n=200) from 14 nanomaterial manufacturing and/or handling factories in Taiwan since 2009. The factories were involved in toilet ceramic coating, nanofiber injection, and the production of semiconductor materials (n=258) and control workers (n=200) from 14 nanomaterial manufacturing and/or handling factories in Taiwan since 2009. The factories were involved in toilet ceramic coating, nanofiber injection, and the production of semiconductor materials (n=258) and control workers (n=200) from 14 nanomaterial manufacturing and/or handling factories in Taiwan since 2009. The factories were involved in toilet ceramic coating, nanofiber injection, and the production of semiconductor materials (n=258) and control workers (n=200) from 14 nanomaterial manufacturing and/or handling factories in Taiwan since 2009. The factories were involved in toilet ceramic coating, nanofiber injection, and the production of semiconductor materials (n=258) and control workers (n=200) from 14 nanomaterial manufacturing and/or handling factories in Taiwan since 2009. The factories were involved in toilet ceramic coating, nanofiber injection, and the production of semiconductor materials.