Initially described in the late 19th century, de Quervain’s tenosynovitis (DQT) is a common condition characterized by pain around the dorsal-radial aspect of the wrist, just proximal to the radial styloid. The condition is precipitated by a thickened first dorsal compartment and its tendons. The impression that DQT is caused by work-related injury is misdirected, as no study has established an association between hand usage at work or trauma with DQT. Physicians should exercise caution when discussing the causes and natural history of DQT with symptomatic patients.
the solitary culprit in precipitating degenerative changes in the first dorsal compartment tendon sheaths and developing DQT symptoms.\textsuperscript{3,15–18}

In another analysis, wrists with DQT underwent a diagnostic ultrasound of the wrist extensor compartments before the first dorsal compartment release. Subcompartmentalization was present in 73\% of the first dorsal compartments. The study demonstrated that the vast majority of patients undergoing DQT release have predisposing compressive anatomy and that ultrasound was 100\% sensitive in the diagnosis of subcompartmentalization.\textsuperscript{19} An absence of subcompartmentalization on ultrasound may be a useful adjunct to exclude patients from a diagnosis of DQT and operative management if there is clinical suspicion for secondary gain.

In addition to anatomical factors, patient factors may also be associated with DQT. Those with DQT have high rates of both anxiety and depression,\textsuperscript{20} are more likely to be part-time workers,\textsuperscript{3} and there may be a genetic predisposition.\textsuperscript{21} Stenosing tenosynovitis of the finger flexor tendons is found more often in patients with DQT.\textsuperscript{4} DQT is 10 times more common in females\textsuperscript{2,5,22} and is often noted in the postpartum period.\textsuperscript{23,24} Finally, patients who undergo surgical treatment for DQT are more likely to have Medicaid insurance, psychiatric illness, and a disabled work status.\textsuperscript{25}

While there are many nonmodifiable factors that contribute to DQT, modifiable (work-related) factors have not been identified as risk factors in large series. One case-control analysis compared 189 patients with DQT and 198 control patients without DQT.\textsuperscript{5} While DQT patients were more likely to be older (52 vs. 43 years) and female (76 vs. 33\%), there was no difference in the groups with regard to the rate of manual labor profession (18 vs. 26\%), medical comorbidities, wrist trauma, computer work, or repetitive forceful work. In fact, patients in the DQT cohort worked 4 hours less than those in the control cohort per week (34 vs. 38 hours) and were less likely to complain of morning wrist stiffness. The authors concluded that neither heavy manual labor nor trauma could be considered a cause of DQT. Furthermore, a systematic review and meta-analysis including 80 articles comprising automechanics, garment workers, shoe assemblers, and meat packers determined that there was no causal relationship between occupational risk factors and DQT.\textsuperscript{4} Furthermore, a prospective analysis of 598 French industrial workers employed in repetitive labor completed a self-administered questionnaire and underwent a physical examination at one point and again 3 years later. While psychosocial factors and personal factors contributed to wrist tenosynovitis, the nature of the physical work was not identified as a risk factor.\textsuperscript{22}

In Finkelstein’s original 24 patient survey from 1930, only one patient was a factory worker. Upon surgical exploration, this individual had subsheaths within his first dorsal compartment.\textsuperscript{10} It is possible that work-related activity may cause discomfort to the patient with DQT already or one who has the nonmodifiable risk factors that may predispose DQT. However, it is far less likely that work-related activity itself is the primary cause of DQT.\textsuperscript{26} Just as riding an exercise bike does not cause stenosis of the coronary arteries and its associated symptoms, repetitive work or trauma does not cause DQT.\textsuperscript{26} Physicians should exercise caution when discussing the causes and natural history of DQT with symptomatic patients.

Note
The views expressed in this publication are those of the authors and do not reflect the official policy or position of the Department of the Army, Defense Health Agency, or the US Government.

Conflict of Interest
None declared.

References