Characteristic MRI findings of shoulder, elbow, and wrist joints in wheelchair user

Characteristic MRI findings of

-Shoulder: Supraspinatus tendon tears

-Elbow: LP lesions (Fig. 1)



Fig. 1 Lateroposterior (LP) lesion, which appears as a large cyst at the latero-posterior part of the capitulum.

-Wrist: TFCC injuries (Fig. 2)



Fig. 2 Severe triangular fibrocartilage complex (TFCC) injury

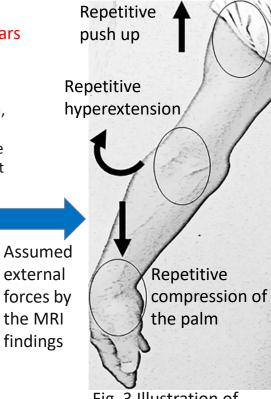


Fig. 3 Illustration of assumed external forces

Push-up: It is a movement lifting and supporting the whole body using both upper extremities on a wheelchair (Fig. 4). Wheelchair users must perform the push-up several times a day due to transfer, prevention of pressure ulcers.

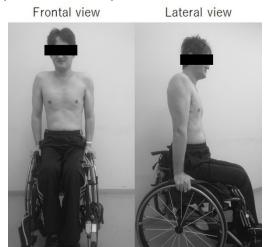


Fig. 4

Assumed

by the

forces

external

movement

MRI showed characteristic findings. We postulate that they may be induced not only by frequent driving of the wheelchair, but also by push-up movements.

References: Sakai M et al., Skeletal Radiol. 2021 Jan;50(1):171-178.

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