

Illness Perceptions of Patients With First Carpometacarpal Osteoarthritis, Carpal Tunnel Syndrome, Dupuytren Contracture, or Trigger Finger

512 patients scheduled for surgery re:

- Carpal tunnel syndrome
- Dupuytren contracture
- 1st CMC OA
- Trigger finger

Brief Illness Perception Questionnaire

patients with Dupuytren disease had a more **negative** perception of their disease than pts with CTS or 1st CMC OA

Interventions that directly target negative illness perceptions might improve treatment outcomes for CMC OA and CTS

van der Oest, et al. J Hand Surg. May 2020
<https://doi.org/10.1016/j.jhsa.2020.05.012>

↑ Am J Hand Surgery visual abstract [5]

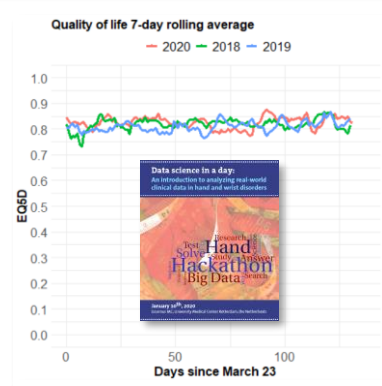
Some scientific highlights

<http://handwriststudygroup.org>

Hand Wrist Study Group

Recent Publications | Our Mission | Jobs

Erasmus MC | Handtherapie-NL | Xpert Clinic



Key notes, invited lectures and many oral presentations at the Online FESSH

25 YEARS FESSH FESSH-ON(line)-WEEK SEPTEMBER 1-5 | 2020

VIRTUAL CONGRESS

EFSHT Online! Week SEPTEMBER 1-4 | 2020

Three successfully defended PhD theses

NO RULES OF THUMB: Outcome Measurement and Treatment for Thumb Base Osteoarthritis

Looking into Carpal Tunnel Syndrome: Prediction and Improvement of Clinical Outcome

Dupuytren's Disease more than extension deficit

← We published the design and implementation of our cohort.

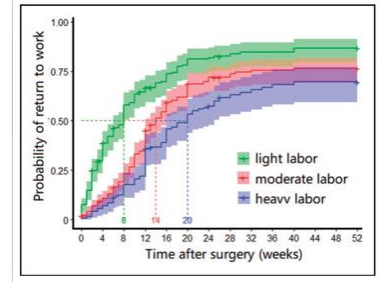
↑ During the first lockdown, in a fully online group **hackathon**, we showed that the **COVID-19 pandemic has no systematic influence on quality of life, pain, hand function, anxiety, depression, and illness perception** in patients treated with hand and wrist disorders. [1]

Robbert Wouters' thesis **selected top 3** of the thesis awards of both the Royal Dutch Society for Physical Therapy and the Netherlands Society of Rehabilitation Medicine. →

THumb osteoarthritis Exercise triAl (THETA)

First patients included

ZonMw



SPECIAL TOPIC

Plastic and Reconstructive Surgery • August 2020

Routine Health Outcome Measurement: Development, Design, and Implementation of the Hand and Wrist Cohort

Innovation & Development

Predicting treatment outcome can help manage patient expectations and guide shared decision making. Therefore, we developed prediction models of clinically relevant improvement in pain and hand function after treatment. With these models, we develop **interactive web-apps** for use by health care professionals during consultation.

Carpal tunnel operation: welke resultaten kunt u verwachten?

Voorafgaande voorspelling

1. Wat het uwen progressie in uw een voorspelling

2. Hoe het uwen voorspelling

Kans dat uw klachten verbeteren? 3 maanden na de operatie

↑ Precise registration of diagnosis is essential in outcome registration. We developed an **interactive app** to make this both **easy and precise**.

Diagnosis determination and track assignment

Soft tissue: Palmar/volar | Soft tissue: Dorsal

Arteries: Both sides | Nerves: Palmar/volar

↑ Precise registration of diagnosis is essential in outcome registration. We developed an **interactive app** to make this both **easy and precise**.

↑ We sponsored and co-developed the **ICHOM set on outcomes of hand and wrist disorders**. The measurement set will be implemented in our clinics in 2021. (<https://www.ichom.org/portfolio/hand-and-wrist-conditions/>)

290.000 questionnaires: 240K by patients, 50K by therapists for 17K treatments

R-course: Analysis of GemsTracker data

Welcome to the R-course dedicated to the analysis of clinical GemsTracker data in R.

This course is intended for people who:

- Have GemsTracker data to collect
- Want to transfer raw GemsTracker data into formats that we can analyze in R
- Want to register and clean our data with scripts for further analysis
- Want to perform several common analyses and how to make specific plots with GemsTracker data
- Want to combine information with examples, you will find in our resources and scripts to further build on.

This course is intended for people who:

- Work with GitHub and repositories in GitHub to improve transparency and team collaboration in data science
- Want to create a data science pipeline that automates the process from GemsTracker data export to the final analysis, allowing analysis to be repeated when new patient data become available.

↑ Data-science skills are essential for understanding the complex relations between diagnoses, treatment, patient characteristics and outcomes, as recorded by our Pulse data collection system. We developed a **course** to train new researchers to analyze these types of health data in the programming language R.

Our collaborators this year:

Radboudumc | ESSER MASTERCLASS | McMaster University | MST Medisch Spectrum Twente een santeon ziekenhuis | Western University - CANADA | HARVARD MEDICAL SCHOOL | ICHOM | University of Oxford | NHS University Hospital Southampton NHS Foundation Trust

- Blackburn J, van der Oest MIW, Poelstra R, Selles RW, Chen NC, Feitz R; Hand-Wrist Study Group. Three-ligament tenodesis for chronic scapholunate injuries: short-term outcomes in 203 patients. J Hand Surg Eur Vol. 2020 May;45(4):383-388.
- Cohen A, Selles RW, De Ridder WA, Ter Stege MHP, Souer JS, Wouters RM; Hand-Wrist Study Group Collaborators. What Is the Impact of the COVID-19 Pandemic on Quality of Life and Other Patient-reported Outcomes? An Analysis of the Hand-Wrist Study Cohort. Clin Orthop Relat Res. 2020 Oct 12.
- Feitz R, Van der Oest MIW, Van der Heijden B, Slijper HP, Selles RW, Hovius SER, Hand-Wrist Study Group. Patient-reported outcomes and function after reinsertion of the triangular fibrocartilage complex by open surgery. The Bone & Joint Journal (accepted).
- Poelstra R, van Kooij YE, van der Oest MIW, Slijper HP, Hovius SER, Selles RW; Hand-Wrist Study Group. Patient's satisfaction beyond hand function in Dupuytren's disease: analysis of 1106 patients. J Hand Surg Eur Vol. 2019 Nov 28.
- Schier JMM, Evers S, Geske JR, Kremers WK, Villarraga HR, Selles RW, Hovius SER, Gelfman R, Amadio PC. Relative Motion of the Connective Tissue in Carpal Tunnel Syndrome: The Relation with Disease Severity and Clinical Outcome. Ultrasound Med Biol. 2020 Jun 26;50(30):3021-3029.
- Selles RW, Wouters RM, Poelstra R, van der Oest MIW, Porsius JT, Hovius SER, Moojen TM, van Kooij Y, Pennenhout PY, van Huis R, Vermeulen GM, Feitz R, Slijper HP; Hand-Wrist Study Group. Routine health outcome measurement: Development, design, and implementation of the Hand and Wrist Cohort. Plast Reconstr Surg. 2020 Apr 27. 1.
- Sun PO, Walbeehm ET, Selles RW, Slijper HP, Ulrich DJO, Porsius JT; Hand Wrist Study Group. Patient Mindset and the Success of Carpal Tunnel Release. Plast Reconstr Surg. 2021 Jan 1;147(1):66e-75e.
- van Kooij YE, Poelstra R, Porsius JT, Slijper HP, Warwick D, Selles RW; Hand-Wrist Study Group. Content validity and responsiveness of the Patient-Specific Functional Scale in patients with Dupuytren's disease. J Hand Ther. 2020 Apr 16;50(94):1130(2):30040-5.
- van der Oest MIW, Poelstra R, Feitz R, Vranceanu AM, Slijper HP, Selles RW; Hand-Wrist Study Group, Porsius JT. Illness Perceptions of Patients With First Carpometacarpal Osteoarthritis, Carpal Tunnel Syndrome, Dupuytren Contracture, or Trigger Finger. J Hand Surg Am. 2020 May;45(5):455.e1-455.e8.
- M.J.W. van der Oest, L. Hoogendam, R.M. Wouters, J. Tsehaie, G.M. Vermeulen, H.P. Slijper, R.W. Selles, the Hand-Wrist Study Group. What to expect from hand therapy for thumb base osteoarthritis? (Dutch journal for Hand Therapy, 2020)
- van der Oest MIW, Teunissen JS, Poelstra R, Feitz R, Burdorf A, Selles RW; Hand-Wrist Study Group. Factors affecting return to work after surgical treatment of first carpometacarpal joint osteoarthritis. J Hand Surg Eur Vol. 2020 Dec 7;45(13):1307-1316.
- Van der Oest, MIW, R Feitz, F van der Werff. Erkervening na chirurgische interventie voor duimbasis artrose. [Return to work after surgical intervention for thumb base osteoarthritis] Quintesse (Dutch journal for occupational medicine) Mar 2020
- Wouters RM, Porsius JT, van der Oest MIW, Slijper HP, Souer JS, Selles RW, MacDermaid JC; Hand-Wrist Study Group. Psychological Characteristics, Female Sex, and Opioid Use Predict Acute Postoperative Pain in Patients Surgically Treated for Thumb Base Osteoarthritis: A Cohort Study. Plast Reconstr Surg. 2020 Dec;146(6):1307-1316.
- Wouters RM, Slijper HP, Esteban Lopez L, Hovius SER, Selles RW; Hand-Wrist Study Group. Beneficial Effects of Nonsurgical Treatment for Symptomatic Thumb Carpometacarpal Instability in Clinical Practice: A Cohort Study. Arch Phys Med Rehabil. 2020 Mar;101(3):434-441.