

# Data

Marmor, M. T., Mahadevan, V., Solans, B. P., Floren, A., Jarlsberg, L., Cohen, I., & Savic, R. (2024). Inpatient pain alleviation after orthopaedic trauma surgery-are we doing a good job?. *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*, 34(1), 569–576. <https://doi-org.ucsf.idm.oclc.org/10.1007/s00590-023-03670-3>

Marmor, M. T., Coufal, S., Parel, P. M., Rezaei, A., & Morshed, S. (2023). Complex Orthopaedic Trauma Is Shifting Away From Level I to Non-Level I Trauma Centers: An Analysis of the National Trauma Data Bank. *Journal of the American Academy of Orthopaedic Surgeons. Global research & reviews*, 7(2), e22.00288. <https://doi-org.ucsf.idm.oclc.org/10.5435/JAAOSGlobal-D-22-00288>

Debopadhaya, S., & Marmor, M. T. (2023). Frailty and comorbidity predict 30 day postoperative outcomes, independent of anatomical site of fracture. *Archives of orthopaedic and trauma surgery*, 143(8), 4697–4704. <https://doi-org.ucsf.idm.oclc.org/10.1007/s00402-023-04764-7>

Nguyen, M. P., Paull, T. Z., Miclau, T., & Marmor, M. T. (2022). Usage of orthopaedic trauma registries among members of the International Orthopaedic Trauma Association: How are we doing?. *OTA international : the open access journal of orthopaedic trauma*, 5(4), e224. <https://doi-org.ucsf.idm.oclc.org/10.1097/OI9.0000000000000224>

Marmor, M., Elson, J., Mikhail, C., Morshed, S., & Matityahu, A. (2015). Short-term pelvic fracture outcomes in adolescents differ from children and adults in the National Trauma Data Bank. *Journal of children's orthopaedics*, 9(1), 65–75. <https://doi.org/10.1007/s11832-015-0634-3>

Matityahu, A., Elson, J., Morshed, S., & Marmor, M. (2012). Survivorship and severe complications are worse for octogenarians and elderly patients with pelvis fractures as compared to adults: data from the national trauma data bank. *Journal of osteoporosis*, 2012, 475739. <https://doi.org/10.1155/2012/475739>

# Imaging

Debopadhaya S, Toogood P, Ding A, **Marmor MT**. Non-Physician Evaluators and Recording-Based Tools in Surgical Skill Assessment: A Feasibility Study. *Accepted for publication to the Journal of Surgical Education in January 2024*/>

Marmor, M. T., Barker, J. P., Matz, J., Donohoe, E., & Herring, M. J. (2021). A dual-sensor ultrasound based method for detecting elevated muscle compartment pressures: A prospective clinical pilot study. *Injury*, *52*(8), 2166–2172.

<https://doi.org/10.1016/j.injury.2021.02.054>

Marmor, M., Charlu, J., Knox, R., Curtis, W., Hoogervorst, P., & Herfat, S. (2019). Use of standard musculoskeletal ultrasound to determine the need for fasciotomy in an elevated muscle compartment pressure cadaver leg model. *Injury*, *50*(3), 627–632.

<https://doi.org/10.1016/j.injury.2019.01.015>

Herring, M. J., Donohoe, E., & Marmor, M. T. (2019). A Novel Non-invasive Method for the Detection of Elevated Intra-compartmental Pressures of the Leg. *Journal of visualized experiments : JoVE*, (147), 10.3791/59887. <https://doi.org/10.3791/59887>

Marmor, M., Kandemir, U., Matityahu, A., Jergesen, H., McClellan, T., & Morshed, S. (2013). A method for detection of lateral malleolar malrotation using conventional fluoroscopy. *Journal of orthopaedic trauma*, *27*(12), e281–e284.

<https://doi.org/10.1097/BOT.0b013e31828f89a9>

Marmor, M., Hansen, E., Han, H. K., Buckley, J., & Matityahu, A. (2011). Limitations of standard fluoroscopy in detecting rotational malreduction of the syndesmosis in an ankle fracture model. *Foot & ankle international*, *32*(6), 616–622.

<https://doi.org/10.3113/FAI.2011.0616>

## Sensors

Braun, B. J., Histing, T., Menger, M. M., Herath, S. C., Mueller-Franzes, G. A., Grimm, B., Marmor, M. T., Truhn, D., & AO Smart Digital Solutions Task Force(Andrew M Hanflik, Peter H Richter, Sureshan Sivananthan, Seth R Yarboro) (2023). Wearable activity data can predict functional recovery after musculoskeletal injury: Feasibility of a machine learning approach. *Injury*, *55*(2), 111254. Advance online publication. <https://doi.org.ucsf.idm.oclc.org/10.1016/j.injury.2023.111254>

Braun, B. J., Histing, T., Menger, M. M., Platte, J., Grimm, B., Hanflik, A. M., Richter, P. H., Sivananthan, S., Yarboro, S. R., Gueorguiev, B., Pokhvashchev, D., & Marmor, M. T. (2023). "Bring Your Own Device"-A New Approach to Wearable Outcome Assessment in

Trauma. *Medicina (Kaunas, Lithuania)*, 59(2), 403. <https://doi-org.ucsf.idm.oclc.org/10.3390/medicina59020403>

Braun, B. J., Grimm, B., Hanflik, A. M., Richter, P. H., Sivananthan, S., Yarboro, S. R., & Marmor, M. T. (2022). Wearable technology in orthopedic trauma surgery - An AO trauma survey and review of current and future applications. *Injury*, 53(6), 1961–1965. <https://doi-org.ucsf.idm.oclc.org/10.1016/j.injury.2022.03.026>

Marmor, M. T., Grimm, B., Hanflik, A. M., Richter, P. H., Sivananthan, S., Yarboro, S. R., & Braun, B. J. (2022). Use of Wearable Technology to Measure Activity in Orthopaedic Trauma Patients: A Systematic Review. *Indian journal of orthopaedics*, 56(7), 1112–1122. <https://doi-org.ucsf.idm.oclc.org/10.1007/s43465-022-00629-0>

Fukase, N., Duke, V. R., Lin, M. C., Stake, I. K., Huard, M., Huard, J., Marmor, M. T., Maharbiz, M. M., Ehrhart, N. P., Bahney, C. S., & Herfat, S. T. (2022). Wireless Measurements Using Electrical Impedance Spectroscopy to Monitor Fracture Healing. *Sensors (Basel, Switzerland)*, 22(16), 6233. <https://doi.org/10.3390/s22166233>

Lin, M. C., Hu, D., Marmor, M., Herfat, S. T., Bahney, C. S., & Maharbiz, M. M. (2019). Smart bone plates can monitor fracture healing. *Scientific reports*, 9(1), 2122. <https://doi.org/10.1038/s41598-018-37784-0>

Lin, M. C., Hu, D., Yang, F., Herfat, S. T., Bahney, C. S., Marmor, M., & Maharbiz, M. M. (2017). Using impedance to track fracture healing rates in mice in vivo: A pilot study. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual International Conference, 2017*, 1724–1727. <https://doi.org/10.1109/EMBC.2017.8037175>

Lin, M. C., Yang, F., Herfat, S. T., Bahney, C. S., Marmor, M., & Maharbiz, M. M. (2017). New opportunities for fracture healing detection: Impedance spectroscopy measurements correlate to tissue composition in fractures. *Journal of orthopaedic research : official publication of the Orthopaedic Research Society*, 35(12), 2620–2629. <https://doi.org/10.1002/jor.23570>

Lin, M. C., Herfat, S. T., Bahney, C. S., Marmor, M., & Maharbiz, M. M. (2015). Impedance spectroscopy to monitor fracture healing. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual International Conference, 2015*, 5138–5141. <https://doi.org/10.1109/EMBC.2015.7319548>

# Simulation & Modeling

Matz, J., Debopadhaya, S., Herfat, S., & Marmor, M. T. (2023). Physiologic Motion in the Intact and Unstable Syndesmosis During Plantigrade Weightbearing in Controlled Ankle Motion Boots. *The Journal of foot and ankle surgery : official publication of the American College of Foot and Ankle Surgeons*, 62(5), 785–787. <https://doi-org.ucsf.idm.oclc.org/10.1053/j.jfas.2023.03.009>

Pokhvashev, D., Knox, R., Herring, M., Herfat, S., & Marmor, M. T. (2023). Correction to: Comparison of fibula strut and calcium phosphate cement augmentation of the medial buttress in 2-part proximal humerus fractures reconstruction: a biomechanical study. *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*, 33(1), 73. <https://doi.org/10.1007/s00590-021-03192-w>

Marmor, M., Knox, R., Huang, A., & Herfat, S. (2020). Acetabulum Cup Stability in an Early Weight-Bearing Cadaveric Model of Geriatric Posterior Wall Fractures. *Journal of orthopaedic trauma*, 34(1), 55–61. <https://doi.org/10.1097/BOT.0000000000001627>

T Marmor, M., Huang, A., Knox, R., Herfat, S., & Firoozabadi, R. (2020). Mapping of the Stable Articular Surface and Available Bone Corridors for Cup Fixation in Geriatric Acetabular Fractures. *The Journal of the American Academy of Orthopaedic Surgeons*, 28(13), e573–e579. <https://doi.org/10.5435/JAAOS-D-18-00445>

Knox, R., Curran, P., Herfat, S., Kandemir, U., & Marmor, M. (2019). The influence of mini-fragment plates on the mechanical properties of long-bone plate fixation. *OTA international : the open access journal of orthopaedic trauma*, 2(3), e034. <https://doi.org/10.1097/OI9.0000000000000034>

Marmor, M., Elliott, I. S., Marshall, S. T., Yacoubian, S. V., Yacoubian, S. V., & Herfat, S. T. (2015). Biomechanical comparison of long, short, and extended-short nail construct for femoral intertrochanteric fractures. *Injury*, 46(6), 963–969. <https://doi.org/10.1016/j.injury.2015.03.005>