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6 - 8 SEPTEMBER 2024
JAMES COOK HOTEL,
WELLINGTON



Sean McKale, CO, ATC Director of Clinical Education & Customer Support, Becker Orthopedic

Optimization of gait using Becker's Triple Action Ankle Joint.

Becker's Multifunctional Triple Action Ankle joint can be used to optimize a patient's gait through alignment and resistance settings. In this course learn the systematic approach for making these adjustments and see understand the clinical impact this may have on your patient's kinematics during gait.

Sean McKale, CO, ATC is the director of education and customer support for Becker Orthopedic. He has over 20 years of clinical experience in the field of Orthotics, ranging from acute care, pediatrics, spinal cord injury, and many other neurological conditions. He has served on the Charcot-Marie-Tooth Association as an advisory board member and been an invited speaker at the Spina Bifida Association physician and family conference. He has also presented at numerous O&P conferences on various topics, however, is primarily focused on lower extremity orthotic management.

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Dr. Bob Eckles

Medical Director, Foot Science International

Total Knee Replacement (TKR) and Foot Posture

- What is the current epidemiology of knee OA and TKR?
- How is foot posture related to knee OA?
- Is the opposite also true, e.g., does knee OA cause pes valgus?
- What are the effects of pes valgus on the success of TKR?
- And again, is the opposite also true, e.g., can TKR improve foot posture?
- Where and how may clinicians intervene?
- Is there reason to exercise caution when dealing with these patients?

Dr Eckles was Associate Dean and the Director of the 3-year post-graduate Foot and Ankle Surgery Residency Program at the New York College of Podiatric Medicine. He joined the faculty in 2003 and was there until 2021 when he and his wife moved to New Zealand, having previously lived and worked in New Zealand.

Dr. Eckles first trained as a podiatrist at the California College of Podiatric Medicine in 1983, having already completed a BA and a Masters in Public Health. He was a board member of the American Board of Podiatric Medicine, and a Certified Wound Care Specialist (CWS) for the American Academy of Wound Management. He was also chair of the Podiatrists Board for the New York State Department of Education from 2013-2019. He is currently an Adjunct Professor in the Department of Orthopedic Sciences at New York College of Podiatric Medicine and has been the Medical Director at Foot Science International, since 2021.

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Chris Miles Head of Clinical Services AposHealth UK

Introducing Apos pods by AposHealth UK

Apos is an innovative solution to help the body help itself relieve chronic knee, hip, or back pain effortlessly while wearing just 1 hour a day in the comfort of one's home.

Apos® works on biomechanical and neuromuscular levels. Using a patented, foot-worn device as part of a daily treatment programme, Apos® is designed to address the underlying causes of pain by temporarily shifting pressure from affected areas.

The neuromuscular re-education of the muscles results in a healthier walking pattern, even when not actively wearing the device.

The pods' convexity creates micro-instability that increases proprioception and re-educates neuromuscular pathways. Custom positioning changes the patient's biomechanics, improves their gait, and directs forces away from unhealthy joint compartments.

Chris Miles has a diverse professional background, holds a BSc in Physiotherapy from the University of East London and an MSc in Biomechanics, University of Roehampton. He now specialises in chronic MSK conditions. Chris has published articles around OA and biomechanical interventions

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Tamra Enbom Director and Clinical Orthotist Prosthetist Access Orthotics

Global trends of 3D Modelling and Printing in O&P

O&P 3D workflow options have changed over the past 2yrs and will keep changing. There are a lot more commercial options promoting cheaper, easier, faster to learn and use. How do you choose? I will provide guidance from a clinician's perspective and highlight global trends in 3D modelling and printing that I feel show promise for improving our patient care.

Tutorial in Prescription to Design in Oqton Freeform (Geomagic)

Improved design and patient care is at the core of my decisions and digital workflow. I will share how we create our patient's prescriptions completely in Freeform, the tools we use and the dynabots we have created. I will apply these features to a few specific patient cases to demonstrate how we as clinicians can stay the makers in a digital landscape.

Tamra is a prosthetist/orthotist lead Clinician and Director at Access Orthotics, NSW Australia. She graduated from the National Center for Prosthetics and Orthotics at La Trobe University, Australia in 1998. Tamra has worked in both prosthetic and orthotic fields, within private and public facilities across Australia (VIC, QLD, SA & NSW). Her heart is for Country. Lived and worked rural and remote for 15yrs, providing mobile care to communities of the Eyre Peninsular and Flinders Ranges.

After 20yrs of hand carving and making, Tamra has now transitioned into full digital workflow of 3D scanning, modelling, and printing. Founder and Lead Clinician at Access Orthotics. State of the art clinical facility, linking vector gait plate and measurable outcomes back into 3D design and printing.

Tamra is a strong advocate for continual professional advancements and open collaboration. Over the past 10yrs she has presented and hosted panels at the Australian Orthotic and Prosthetic Association Congresses, attended international ISPO conferences, OT World and Design Symposiums. Since 2014 she has supported undergraduate education with lecture presentations for O&P (LaTrobe, UniSC) and BioMedical Engineer (UOW). Access Orthotics also hosts student Honor and Thesis projects and employs BioMedical Eng. interns for industry experience. Her business and professional focus is on excellence in evidence-based patient-centered care.

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Brent Wright

Co-Host The Prosthetics & Orthotics Podcast

Certified Clinician EastPoint

Prosthetics & Orthotics, Inc.

Partner & Designer at Advanced 3D

**MultiJet Fusion and Selective Laser Sintering -
A Real Industrial Revolution**

W Brent Wright, CP, BOCO, is a Partner and Designer at Advanced 3D, and a clinician for patients on the ground at Eastpoint Prosthetics and Orthotics in Raleigh, NC. Brent began his career in prosthetics and orthotics as a technician at the age of 16. He has watched the tide turn toward additive technology in prosthetics and orthotics both locally in the USA and internationally. While he has a background with Fused Deposition Modeling (FDM), Brent has been utilizing new methods using MultiJet Fusion and Selective Laser Sintering lately, looking to create prostheses that are not only functional but light and flexible. He is playing an essential role in what he lovingly calls 'a real industrial revolution', especially as more focus is given to improving patient outcomes by designing personapersonalized, patient-specific solutions. He is passionate about his life's work and the ways it is improving patient outcomes around the world.

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Sean Tickner

Team Lead/Clinical Orthotist, Peke Waihanga

Digital workflow in orthotic services: Aotearoa New Zealand

Background:

Orthotic devices play a crucial role in enhancing mobility and quality of life for individuals with musculoskeletal conditions. Traditionally, the fabrication of orthoses has been a manual, labour-intensive process - the emergence of digital technology has revolutionized design, production, and clinical implementation.

Objective:

This presentation aims to explore the impact of digital workflows in orthotic practice, orthotic design, fabrication, and patient care within the unique cultural context of Aotearoa New Zealand. We delve into the benefits, challenges, and opportunities associated with transitioning from conventional methods to digital approaches.

Key Points:

- Digital Workflow: We discuss how digital workflows streamline the entire orthotic process, from assessment and design to fabrication and fitting.
- 3D Printing: We highlight the role of additive manufacturing in creating customized orthotic devices. 3D printing allows for intricate designs, patient-specific adaptations, and rapid prototyping.
- Clinical Implementation: We explore challenges faced during the transition to digital workflows, including training, cost considerations, and integration into existing practices.
- Patient-Centric Approach: Digital workflows empower practitioners to tailor orthoses to individual needs, improving patient outcomes and satisfaction.

Conclusion:

Embracing digital workflows in orthotics holds immense promise. By leveraging technology, we can enhance precision, efficiency, and accessibility in orthotic care. This presentation encourages practitioners to explore the digital frontier and contribute to advancing orthotic practice here in Aotearoa New Zealand. To strive for world-class orthotic care, ensuring that all individuals receive personalized, effective, and culturally sensitive solutions. References available on request.

I completed my studies in orthotics and prosthetics at the Department of Sport, Rehabilitation and Dental Sciences at the Pretoria Technikon, South Africa and qualified in 2003. Completing my internship at an accredited centre in Durban, I continued working in this field for six years before moving to Cape Town to further my career for nearly 10 years and becoming a partner at a thriving private P&O practice. I then moved to New Zealand and am now happily part of the Peke Waihanga Orthotic Service team here in Tauranga.

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Wendy Neilson Access Assessor, MNZM, Disability Advocate

My journey with Disability Services & Advocating for Attitude Change.

I was born with the disability Arthrogryposis Multiplex Congenita. I have had many corrective operations that have made a considerable improvement to my mobility. I am unable to buy footwear that will fit my feet so all my shoes and boots are made by Orthotics. My shoes and boots are very important and highly valued by me for my independence and mobility.

I have been very active in disability issues, attitude change and advocacy at a national and local level for many years. This includes the New Zealand Arthrogryposis Multiplex Congenita Group (TAGNZ) a Charitable Trust that has been meeting regularly for over 30 years

I have a life time of advocacy in the disability sector. I am a trained teacher and have taught at primary, secondary, polytechnic and university levels. I have also worked for ACC, Dept of Social Welfare and the Hillary Commission where I was the Inaugural Programme Manager advocating for the importance of those with disability to be involved in sport and recreation. For many years I was on the Workbridge Council and Disabled Persons Assembly including time as Chair of both.

I am an Access Assessor and have worked as a consultant to Tauranga City Council (TCC) and other organisations advising them on NZ Building Code access requirements. I have run Disability Awareness workshops over many years. I was a Government appointed lay member of the Podiatrist Board for about 5 years. I have been a Justice of the Peace for 28 years. In the 2009 New Year Honours I was awarded the MNZM for service to the disability sector.

In retirement I volunteer on a number of Community Boards including Citizens Advice Bureau, WBOP Disability Support Trust, the Arthrogryposis Multiplex Congenita Board (TAGNZ) and a member of TCCs Positive Aging Advisory Forum. I have also been a member of the TCC's Disability Advisory Group. I have two adult children. My son (an art teacher) and daughter (a policewoman) both have children in their late teens and early 20s.

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Hugh Sheridan Deliberate Consulting FZ LLC

Global Perspective on O&P across the IMEA region

Our mission at Deliberate is to de-risk growth for startups and businesses within the Digital Health, Foot Health, Orthotics & Prosthetics & Rehabilitation Sectors across IMEA

We are based in UAE and Saudi Arabia with a strong focus on the fastest growing healthcare market in the world - IMEA - India, Middle East and Africa.

A hugely experienced innovative leader within the global Med-Tech industry and specifically the verticals of Digital Health, Orthotic & Prosthetics, Orthopedic, Rehabilitation, Diabetes & Medical Device 3D Printing.

Hugh leads a team of specialists in Strategy, Branding, Commercializing Products, Establishing Global G2M, Building Global Sales & Marketing Teams,

Previous projects:

- Built Rehabilitation focused Medical Device Manufacturer from \$3m to \$20m revenue over 4 years
- Built 3d printing startup US focused sales pipeline of \$25m within 6 months of market entry
- Generated \$10m revenue with 65% GM within 3 years hiring a team of 5 sales leaders for the Middle East Rehabilitation market
- As CEO grew a team of over 100 rehabilitation experts by 50% across 5 subsidiaries, Joint ventures and sales offices