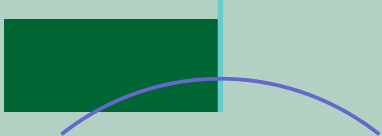
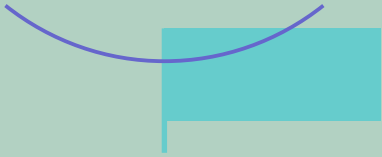




Orthotics Prescription Resource Guide



**A Manual devised by the SWEP
Clinical Advisory Team to assist
SWEP registered prescribers**



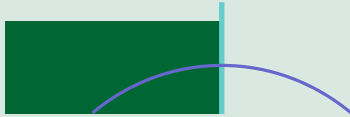


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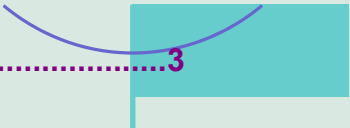
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Introduction

The material in this document is intended to provide prescribers of orthoses with a resource that may assist them in prescribing and providing evidence or relevant resources to substantiate prescription.

SWEP provides aids and equipment for clients who meet eligibility criteria as outlined in the [Victorian Aids and Equipment Program Guidelines](#)



Shortcuts to relevant SWEP documents

- [Adult Orthotics & Footwear Picklist](#)
- [Paediatric Orthotics Picklist](#)
- [Application/Eligibility Form](#)
- [Orthotics and Footwear Prescription Form \(Adult and Child\)](#)
- [Priority of Access Guidelines.*](#)

*Prescribers are encouraged to provide as much detailed information at item 10 – Implication of non-provision. This will assist SWEP assessors in prioritising the client’s status and degree of urgency.

The [Orthotics and Footwear Prescription form](#) can be completed and submitted on-line via the SWEP website.

References, Further Readings and Resource Links

O&P Virtual Library:

The following texts and journals were digitized as part of the [O&P Virtual Library](#) project of the [Digital Resource Foundation for the O&P Community \(DRFOP\)](#).

Journal of Prosthetics & Orthotics - JPO: hosted at American Academy of Orthotists and Prosthetists.



Clinical Prosthetics & Orthotics - CPO

Artificial Limbs

Journal of the Association of Children's Prosthetic & Orthotic Clinics (JACPOC) - JACPOC: hosted at the ACPOC website.



Prosthetics & Orthotics International - POI

Orthotics and Prosthetics

Atlas of Limb Prosthetics

Literature updates - hosted at - American Academy of Orthotists and Prosthetists - a regular e-update that lists current research in orthotics and prosthetics outside of the *Journal of Prosthetics and Orthotics (JPO)*. This member benefit is a result of the work of the Academy's Publications Committee, chaired by Phillip M. Stevens, M.Ed, CPO, FAAOP. *Issues and years as at 2012
<http://www.oandp.org/jpo/>

American Academy of Orthotists and Prosthetists - Online Learning Centre
<http://www.oandp.org/olc/>
Plans for - Online Webinar series

PubMed - comprises more than 21 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.
<http://www.ncbi.nlm.nih.gov/pubmed/>

Lower Extremity review. <http://lermagazine.com/>

Example (free article) - Relationship between static foot posture and foot mobility
Mark W Cornwall and Thomas G McPoil
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3033808/>

Internet prescription resources:

Stance Control - Overview Guide II. Taking the Step into Stance Control
Gary G. Bedard, B.Sc., CO, FAAOP

<http://www.beckerortho.com/Featured%20Products/Stance%20Control/BECKER%20STRIDE%20FAMILY%20GUIDE.pdf>



Orthotic Assessment for Individuals With Postpolio Syndrome: A Classification System

Carolyn Kelley, PT, MS, NCS

Thomas V. DiBello, BS, CO, FAAOP

http://www.oandp.org/jpo/library/2007_04_109.asp

A Physiologic Rationale for Orthotic Prescription in Paraplegia

by Robert L. Waters, M.D.

Leslie Miller, R.P.T.

http://www.oandplibrary.org/cpo/pdf/1987_02_066.pdf

A Review of the Literature Pertaining to KAFOs and HKAFOs for Ambulation

Stefania Fatone, PhD, BPO(Hons)

http://www.oandp.org/jpo/library/2006_03s_137.asp

AFO's

AAOP State-of-the-Science Evidence Report: The Effect of Ankle-Foot Orthoses on Balance-A Systematic Review

Nerrolyn Ramstrand, PhD, BP&O (Hons)

Simon Ramstrand, MSc, BP&O

http://www.oandp.org/jpo/library/2010_04s_004.asp

Best evidence statement (BEST). Lower extremity orthoses for children with hemiplegic cerebral palsy.

[http://www.cincinnatichildrens.org/WorkArea/linkit.aspx?](http://www.cincinnatichildrens.org/WorkArea/linkit.aspx?LinkIdentifier=id&ItemID=88017&libID=87705)

[LinkIdentifier=id&ItemID=88017&libID=87705](http://www.cincinnatichildrens.org/WorkArea/linkit.aspx?LinkIdentifier=id&ItemID=88017&libID=87705)

Orthotic management of cerebral palsy: Recommendations from a consensus conference.

NeuroRehabilitation 28 (2011) 37 – 46

Morris C, Bowers R, Ross K, Stevens P, Phillips D


<http://www.ncbi.nlm.nih.gov/pubmed/21335676>

A systematic review to determine best practice reporting guidelines for AFO interventions in studies involving children with cerebral palsy.

Prosthetics and Orthotics International 34(2) 2010 129 – 145

Ridgewell E, Dobson F, Bach T, Baker R

<http://poi.sagepub.com/content/34/2/129.abstract>



Classification of gait patterns in spastic hemiplegia and spastic diplegia: a basis for a management algorithm.

European Journal of Neurology 8 (Suppl. 5) 2001 98 – 108

Rodda J, Graham HK

<http://onlinelibrary.wiley.com/doi/10.1046/j.1468-1331.2001.00042.x/abstract>

Upper Limb Orthoses

Biomechanics of Upper Limb Orthoses

[http://ispo.insightcms.nl/upload/file/Plettenburg%20artikel\(1\).pdf](http://ispo.insightcms.nl/upload/file/Plettenburg%20artikel(1).pdf)

A Guide For Upper Limb Prescription In Spinal Cord Injury

<http://www.occupationalperformance.com/a-guide-for-upper-limb-orthotic-prescription-in-spinal-cord-injury/>

Footwear

Development and evaluation of a tool for the assessment of footwear characteristics.

J Foot Ankle Res. 2009 Apr 23;2:10. Barton CJ, Bonanno D, Menz HB.

Source

School of Physiotherapy, Faculty of Health Sciences, La Trobe University, Bundoora, Victoria, Australia. c.barton@latrobe.edu.au.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2678108/?tool=pubmed>

Footwear and Falls

Falls in the healthy elderly: predisposing causes.

<http://www.ncbi.nlm.nih.gov/pubmed/4043031>

Ergonomics. 1985 Jul;28(7):965-75.

Gabell A, Simons MA, Nayak US.


PMID:4043031 [PubMed - indexed for MEDLINE]

'Choosing shoes': a preliminary study into the challenges facing clinicians in assessing footwear for rheumatoid patients


J Foot Ankle Res. 2010; 3: 24.

Published online 2010 October 19. doi: 10.1186/1757-1146-3-24

PMCID: PMC2967518

Renee N Silvester,¹ Anita E Williams,² Nicola Dalbeth,^{3,4} and Keith Rome ¹

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2967518/?tool=pmcentrez>



Effect of Footwear and Orthotic Devices on Stress Reduction and Soft Tissue Strain of the Neuropathic Foot

Donovan J. Lott, Mary K. Hastings, Paul K. Commean, Kirk E. Smith, Michael J. Mueller

Clin Biomech (Bristol, Avon) Author manuscript; available in PMC 2008 March 1. Published in final edited form as: Clin Biomech (Bristol, Avon). 2007 March; 22(3): 352–359. Published online 2006 December 19. doi: 10.1016/j.clinbiomech.2006.10.010
PMCID: PMC1847616

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1847616/?tool=pmcentrez>

Other resources

Paediatric

[Lower Limb Orthotic Management of Cerebral Palsy](#) ISPO Consensus Conference Report, from a conference held at Duke University, Durham, North Carolina, November 1994

PDF file with OCR (12.2 MB)

Modified Ashworth Scale

http://www.ebanque-pdf.com/fr_modified-ashworth-scale.html

Modified Ashworth Scale Instructions

<http://www.rehabmeasures.org/PDF%20Library/Modified%20Ashworth%20Scale%20Instructions.pdf>

Gross Motor Function Classification System—Expanded & revised (GMFCS—E&R)

<https://canchild.ca/en/resources/42-gross-motor-function-classification-system-expanded-revised-gmfcs-e-r>

Gross Motor Function Classification System

GMFCS—E&R—Gross Motor Function Classification System

https://www.cpqcc.org/sites/default/files/documents/HRIF_QCI_Docs/GMFCS-ER.pdf

GMFCS for children aged 6–12 years - Descriptors and illustrations

<http://www.rch.org.au/emplibary/ortho/GMFCSHandout.pdf>



Victorian Paediatric Orthopaedic Network (VPON)

This website aims to support and educate referrers and families about specialist orthopaedic services provided in Victoria. It also provides information about paediatric orthopaedic conditions.

<http://www.health.vic.gov.au/vpon/index.htm>

Neuro-muscular Assessment video's

http://library.med.utah.edu/neurologicexam/html/motor_normal.html#08

Medical examination video's

<http://www.youtube.com/user/onlinemedicalvideo?feature=watch>

Observational Gait Analysis

Modified from Ranch Los Amigos Hospital

http://www.painfreefeet.ca/site/ywd_painfreefeet/assets/pdf/GAIT_ANALYSIS.pdf

Evidence-based care guideline for management of idiopathic toe walking in children and young adults ages 2 through 21 years.

Bibliographic Source(s)

Cincinnati Children's Hospital Medical Center. Evidence-based care guideline for management of idiopathic toe walking in children and young adults ages 2 through 21 years. Cincinnati (OH): Cincinnati Children's Hospital Medical Center; 2011 Feb 15. 17 p. [49 references]

<http://www.cincinnatichildrens.org/WorkArea/linkit.aspx?LinkIdentifier=id&ItemID=92326&libID=92020>

Diabetes:

Orthotic Treatment of Neuropathic Diabetic Foot Ulcers

<http://www.aqipa.org/getattachment/b24384dd-2f88-4fdb-8a77-6fc5ad2d58f3/Orthotic-treatment-of-neuropathic-foot-ulcers-in-p.aspx>

Singh N, Armstrong D, Lipsky B. Preventing foot ulcers in patients with diabetes. JAMA. 2005;293:217–228. doi: 10.1001/jama.293.2.217. [PubMed]

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Competing interests: The authors declare that they have no competing interests.]*