

PHYSIOTHERAPY PATHWAY

Treatment Pathway code:	WAHT-TP-011	
Treatment Pathway Owner:	<i>Jenny Robinson/Kate Harris</i>	<i>Job role Physiotherapy and Orthotics Manager</i>
Approved by:	<i>Therapies Clinical Governance/ Key Document Approval Group</i>	
Date of Approval:	<i>5th April 2018</i>	
Date of review:	<i>5th April 2020</i>	

AMENDMENTS MADE TO TREATMENT PATHWAY

Date	Amendments made	Approved by
January 2016	Guidelines for the use of humidified high flow oxygen therapy via nasal cannula added to pathway	KDAG
August 2016	All therapists performing examination and/or treatments on patients who lack capacity to consent – updated text added top	Physiotherapy Governance
August 2016	Rehabilitation guidelines for patients undergoing surgery for Tibialis Posterior reconstruction added to Pathway – Not approved at KDAG as the guideline was approved before this was established.	Physiotherapy Governance
August 2016	Miami j ® Cervical Collar Daily Checks, Cervical Collars & Vista Cervical Collar User Information Patient information leaflets added	T&O Governance meeting
August 2016	Updates to Large tears, Rotator cuff repairs, Secure repair small tears, total knee replacement pop ups within orthopaedic section	Physiotherapy Governance
January 2017	Secure repair small tears, Large tears made into one prop up Rotator cuff repairs. Updates to Subacromial Decompression of shoulder Pop up	Clinical Governance 29 TH Sept
August 2017	Anterior cruciate ligament reconstruction for Mr Pearse patients only added to lower limb section of treatment pathway	Therapies Clinical Governance
November 2017	Pathway extended for four months whilst review of documents takes place	Kate Haris, Jenny Garside
April 2018	Physiotherapy page and document approved at Therapies Clinical Governance Meeting for two years	Therapies Clinical Governance

CONSULTATION

This Treatment pathway has been circulated to the following individuals for consultation

Name	Designation
Kate Harris	Clinical Lead for MSK outpatients
Helen Hawkes	Clinical Lead for orthopaedic inpatients
Sally Mc Nally	Clinical Lead for Surgery and Medicine
Emma Hall Robinson	Clinical Lead for Neurology and rehabilitation
Sally Martineau	Clinical Lead for Womens and Men's Health

This Treatment pathway has been circulated to the chair(s) of the following committee's / groups;

Chair of the Physiotherapy Clinical Governance Group

Chair of the Therapies Clinical Governance Group

IMPLEMENTATION

Plan for implementation

All physiotherapy staff are aware of the previous guidelines and where to find them on the intranet. Once the pathways are live, all staff will receive an email from Jenny Robinson explaining the change and telling them how to search within the pathway. As staff rotate to different Specialities they will be introduced to the pathways relevant to that rotation.

New staff will be introduced to the pathways as part of their departmental induction

DISSEMINATION

a/a

TRAINING AND AWARENESS

At PDR pathways will be discussed and staff sign to say they are aware of all policies relevant to their role. As staff rotate into new areas their mentor will introduce them to relevant pathways. Staff will document in patient records that treatment has been given in line with a pathway or if they have deviated from a pathway they will outline the reasons why.

MONITORING AND COMPLIANCE

This section should identify how the Trusts plan to monitor compliance with and the effectiveness of this Treatment pathway. It should include auditable standards and/or key performance indicators (KPIs) and details on the methods for monitoring compliance

What	How	Who	Where
Where there is a pathway for a particular condition or procedure our annual notes audit will determine if the pathway has been followed	Random notes audit using a standardised proforma of 10 sets of notes per ward or outpatient area on an annual basis.	Senior staff within each specialty will undertake the audit in their area.	Senior staff will send the results of their audit to Kate Harris who will write up a report. This report goes to our Therapies Clinical Governance meeting and the results of the audit are fed back to staff at team brief. If particular staff are failing the audit they will receive feedback individually from their mentor and an improvement objective set at PDR

REFERENCES

All references should be 'Harvard' referenced

Title	
Guidelines for the Care of Patients with Tracheostomy Tubes St George's Healthcare NHS Trust	
Nilsson-Helander K., Silbernagel K., Thomee R., Faxen E., Olsson N., Eriksson B. and Karlsson J. (2010) Acute Achilles Tendon Rupture, The American Journal of Sports Medicine, Vol. 38, No. 11: 2186-2193	
Wallace R.G.H., Heyes G.J. and Michael A.L.R. (2011) The non-operative Functional Management of Patients with a Rupture of the Tendo Achilles Lead to Low Rates of Re-rupture, The Journal of Bone and Joint Surgery Vol. 93: 1362-1366	
Hufner, TM, Brandes, DB, Thermann H., Richter M., Knobloch K. and Krettek C. (2006). Long-term Results after Functional Non-operative Treatment of Achilles Tendon Rupture. Foot Ankle International 27(3): 167-71.	
Saxena A., Ewen B., and Maffulli N. (2011) Rehabilitation of the Operated Achilles Tendon: Parameters for Predicting Return to Activity. The Journal of Foot and Ankle Surgery Vol. 50: 37-40	
Karkhanis S., Mumtaz H., and Kurdy N. (2010) Functional Management of Achilles Tendon Rupture: A Viable Option for Non-operative Management, Foot and Ankle Surgery Vol. 16: 81-86	
Benton-Weil W & Weil L (1999) "The Cobb Procedure for Stage II Posterior Tibial Tendon Dysfunction" Clinics in Podiatric Medicine and Surgery 16, (3): 471-477 Campbells Operative Orthopaedics: 10 th Edition (2003) Mosby: London	
Caracchiolo A (1997) "Evaluation of spring ligament pathology in patients with posterior tibial tendon rupture, tendon transfer and ligament repair" Foot and Ankle Clinics 2, (2), 297-307	
Coetzee J & Hansen S (2001) "Surgical Management of Severe Deformity Resulting from Posterior Tibial Tendon Dysfunction" Foot & Ankle International 22, (12): 944-949	
Dipreta et al (2001) "Conservative Management of Acquired Flat Foot" Physical Medicine and Rehabilitation 15 (3), 625-635	
Feldman et al (2001) "In situ tibialis posterior to Flexor digitorum longus tendon transfer for tibialis posterior tendon dysfunction: a simplified surgical approach with outcome of 11 patients" Journal of Foot and Ankle Surgery 40, (1), 2-7	
Cause of Adult Acquired Flat Foot" BMJ 329: 1328-1333	
Lee M (2005) "Posterior calcaneal displacement osteotomy for adult acquired flat foot" Clinics of Podiatric Medicine and Surgery 22, 277-289	
McCollister Everts (1990) "Surgery of the Musculoskeletal System" 2 nd Edition, Volume 4, Churchill Livingstone: London	
Miller R, DeCoster T & Mizej M (2005) "What's New in Foot and Ankle Surgery?" The Journal of Bone and Joint Surgery 87, (4): 909-917	
Myerson & Corrigan (1996) "Treatment of posterior tibial tendon dysfunction with Flexor Digitorum Longus tendon transfer and calcaneal osteotomy"	
Myerson et al (1995) "Tendon transfer combined with calcaneal osteotomy for treatment of posterior tibial tendon insufficiency: a radiological investigation"	
Wacker J, Hennessy M & Saxby T (2002) "Calcaneal Osteotomy and Transfer of Flexor Digitorum Longus for Stage II Dysfunction of Tibialis Posterior: three to five year results" Journal of Bone and Joint Surgery 84B, (1): 54-58	
Weil L, Benton-Weil W, Borrelli A & Weil L (1998) "Outcome for Surgical Correction for Stages 2 and 3 Tibialis Posterior Dysfunction" Journal of Foot and Ankle Surgery 37, (6): 467-471	
Kohls-Gatzoulis et al (2004) "Tibialis Posterior Dysfunction: a Common and Treatable	
Willits K, Amendola A, Bryant D, Mohtadi N, Griffin R, Fowler P, Kean C. & Kirkley A. (2010) Operative versus Non-operative Treatment of Acute Achilles Tendon Ruptures. The Journal of Bone and Joint Surgery, 92: 2767 – 2775.	

Kearney R, McGuinness K, Achten J. & Costa M. (2012) A systematic review of early rehabilitation methods following a rupture of the Achilles tendon. <i>Physiotherapy</i> . 98: 24 – 32.	
Nilsson-Helander K., Silbernagel K., Thomee R., Faxen E., Olsson N., Eriksson B. and Karlsson J. (2010) Acute Achilles Tendon Rupture, <i>The American Journal of Sports Medicine</i> , Vol. 38, No. 11: 2186-2193	
Wallace R.G.H., Heyes G.J. and Michael A.L.R. (2011) The non-operative Functional Management of Patients with a Rupture of the Tendo Achilles Lead to Low Rates of Re-rupture, <i>The Journal of Bone and Joint Surgery</i> Vol. 93: 1362-1366	
Hufner, TM, Brandes, DB, Thermann H., Richter M., Knobloch K. and Krettek C. (2006). Long-term Results after Functional Non-operative Treatment of Achilles Tendon Rupture. <i>Foot Ankle International</i> 27(3): 167-71.	
Saxena A., Ewen B., and Maffulli N. (2011) Rehabilitation of the Operated Achilles Tendon: Parameters for Predicting Return to Activity. <i>The Journal of Foot and Ankle Surgery</i> Vol. 50: 37-40	
Karkhanis S., Mumtaz H., and Kurdy N. (2010) Functional Management of Achilles Tendon Rupture: A Viable Option for Non-operative Management, <i>Foot and Ankle Surgery</i> Vol. 16: 81-86	
Steadman – Hawkins clinic website www.steadman-hawkins.com/knee micro fracture	
Steadman JR, Rodrey WG, Briggs KK. Micro fracture to treat full-thickness Chondral Defects. Surgical Technique, Rehabilitation, and outcomes. <i>The Journal of Knee Surgery</i> ; summer 2002 & 3.	
Reinold MM, Wilk KE, Macrina LC, J Dugas JR, Cain EL.	
Current concepts in the Rehabilitation following articular cartilage repair procedures in the knee. <i>J.Orthop Sports Phys Ther</i> . Vol 36 Number 10. October 2006.	
Irrgang JJ, Rezzullo D. Rehabilitation following surgical procedures to address articular cartilage lesions in the knee. Volume 28. Number 4. October 1998. <i>JOSPT</i> .	
Protocol of the ACTIVE Trial. RJ and AH Orthop & District NHS Trust, Oswestry	
Addo HA, Sharma SC. (1987) UVB phototherapy and photochemotherapy (PUVA) in the treatment of polymorphic light eruption and solar urticaria. <i>Br J Dermatol</i> ; 116: 539-47	
Atherton DJ, Carabott F, Glover MT, Hawk JLM. (1988) The role of psoralen photochemotherapy (PUVA) in the treatment of severe atopic eczema in adolescents. <i>Br J dermatol</i> ; 118: 791-5	
Baron ED, Stevens SR. (2003) Phototherapy for cutaneous T-cell lymphoma. <i>Dermatologic Therapy</i> ; 16 (4): 303-310	
Bilsland D, George SA, Gibbs NK, Aitchinson T. (1993) A comparison of narrow-band phototherapy (TL-01) and photochemotherapy (PUVA) in the management of polymorphic light eruption. <i>Br J Dermatol</i> ; 129: 708-12	
British Association of Dermatologists. Protective Eyewear for Photochemotherapy. (1) Notes for patients who are undergoing photochemotherapy (PUVA). (2) Explanatory note for dermatologists. London: British Association of Dermatologists.	
British Photodermatology Group. (1994) British Photodermatology Group guidelines for PUVA. <i>Br J Dermatol</i> ; 130: 246-255	
British Photodermatology Group (1997) An appraisal of narrowband (TL-01) UVB phototherapy . British Photodermatology Group Workshop Report (April 1996). <i>Br J Dermatol</i> 1997; 137: 327-330	
British Association of Dermatologists (2012) Working party report on minimum standards for phototherapy services. British Association of Dermatologists	
Buckley DA, Healy E, Rogers S. (1995) A comparison of twice-weekly MPD-PUVA and three times weekly skin typing-PUVA regimens for the treatment of psoriasis. <i>Br J Dermatol</i> ; 133 (3): 417-22	
Buckley DA, Phillips WG. (1997) Comment on; 8-MOP PUVA for psoriasis: a comparison of a minimal phototoxic dose-based regimen with a skintype approach. <i>Br J Dermatol</i> ; 136 (5): 800-1	
Cameron H, Dawe RS, Yule S (2002) A randomized, observer blinded trial of twice vs. three times weekly narrowband ultraviolet B phototherapy for chronic plaque psoriasis. <i>Br J Dermatol</i> ; 147 (5): 973-8	

Carabott FM, Hawk JL. (1989) A modified dosage schedule for increased efficiency in PUVA treatment of psoriasis. Clin Exp Dermatol; 14(5): 337-40	
Clark C, Dawe RS, Evans AT, Lowe G, Ferguson J. (2000) Narrowband TL- 01 phototherapy for patch-stage mycosis fungoides. Arch Dermatol;136(6):748-52.	
Collins P, Ferguson J. (1995a) Narrowband (TL-01) UVB air-conditioned phototherapy for atopic eczema in children. Br J Dermatol; 133 (4): 653-5	
Collins P, Ferguson J. (1995b) Narrowband UVB (TL-01) phototherapy: an effective preventive treatment for the photodermatoses. Br J Dermatol; 132: 956-63	
Collins P, Wainwright NJ, Amorim I, Lakshmiopathi T, Ferguson J. (1996) 8-MOP PUVA for psoriasis: a comparison of a minimal phototoxic dose-based regimen with a skin-type approach. Br J Dermatol; 135 (2): 248-54	
Cox NH, Farr PM, Diffey BL. (1989) A comparison of the dose-response relationship for psoralen-UVA erythema and UVB erythema. Arch Dermatol; 125 (12): 1653-7	
Cox NH. (1990) A modified dosage schedule for increased efficiency in PUVA treatment. Clin Exp Dermatol; 15 (4): 318-9	
Das S, Lloyd JJ, Farr PM. (2003) Measurement of the minimal phototoxic dose is important for optimal psoralen plus ultraviolet A treatment of psoriasis. Br J Dermatol; 149 (Suppl 64): 2	
Davey JB, Diffey BL, Miller JA. (1981) Eye protection in psoralen photochemotherapy. Br J Dermatol; 104: 295-300	
Dawe RS, Wainwright NJ, Cameron H, Ferguson J. (1998) Narrow-band (TL-01) ultraviolet B phototherapy for chronic plaque psoriasis: three times or five times weekly treatment? Br J Dermatol; 138 (5): 833-9	
Diederer PV, van Weelden H, Sanders CJ. (2003) Narrowband UVB and psoralen-UVA in the treatment of early stage mycosis fungoides: a retrospective study. J Am Acad Dermatol; 48 (2): 215-9	
Diffey BL, Miller JA. (1980) A comment on the routine testing of sunglasses in photochemotherapy. Br J Dermatol; 102: 665-668	
Diffey BL.(1996) Eye protection for PUVA patients. Br J Dermatol; 135: 654-5	
Drummond A, Torley D, Jamieson CA, Bilisland D. (2003) Narrowband ultraviolet B for psoriasis: 'to MED or not to MED', that is the question. Br J Dermatol; 149 (Suppl 64): 2	
EU (2006) Non-binding guide to good practice for implementing Directive 2006/25/EC 'Artificial Optical Radiation' European Commission. Luxembourg: Publications Office of the European Union 2011ISBN 978-92-79-16046-2 doi:10.2767/74218	
George SA, Bilisland DJ, Johnson BE, Ferguson J. (1993) Narrow-band (TL-01) UVB air-conditioned phototherapy for chronic severe adult atopic dermatitis. Br J Dermatol; 128: 49-56	
Green C, Ferguson J, Lakshmiopathi T, Johnson BE. (1988) 311nm UVB phototherapy – an effective treatment for psoriasis. Br J Dermatol; 119 (6): 691-6	
Gruss C, Behrens S, von Kobyletzki G. (1998) Effects of water temperature on photosensitization in bath-PUVA therapy with 8-methoxypsoralen. Photodermatol Photoimmunol Photomed; 14:145-7	
Halpern SM, Anstey AV, Dawe RS. (2000) Guidelines for topical PUVA: a report of a workshop of the British Photodermatology Group. Br J Dermatol; 142: 22-31	
Hofer A, Fink-Puches R, Kerl H, Wolf P. comparison of phototherapy with near vs. far erythemogenic doses of narrow-band ultraviolet B in patients with psoriasis. Br J Dermatol 1998; 138: 96-100	
HSE (2006) Five steps to risk assessment. HSE booklet INDG 163(rev2), ISBN 0 7176 6189 X. Available to download from: http://www.hse.gov.uk/pubns/indg163.pdf	
Hudson-Peacock MJ, Diffey BL, Farr PM. (1996) Narrow-band UVB phototherapy for severe atopic dermatitis. Br J Dermatol; 135 (2): 332	
Ibbotson SH, Farr PM. (1999) The time-course of psoralen ultraviolet A (PUVA) erythema. J Invest Dermatol; 113 (3): 346-50	

Ibbotson SH, Dawe RS, Farr PM. (2001) The effect of methoxsalen dose on ultraviolet-A-induced erythema. J Invest Dermatol;116(5):813-5.	
Ibbotson SH, Bilisland D, Cox NH (2004) An update and guidance on narrowband ultraviolet B phototherapy: a British Photodermatology Group Workshop Report. Br J Dermatol; 151 (2): 283-97	
Konya J , Diffey BL, Hindson TC. (1992) Time course of activity of topical 8-methoxypsoralen on palmo-plantar skin. Br J Dermatol; 127: 654-5	
Kwok YK, Anstey AV, Hawk JL. (2002) Psoralen photochemotherapy (PUVA) is only moderately effective in widespread vitiligo: a 10-year retrospective study. Clin Exp Dermatol; 27 (2): 104-10	
Leslie KS, Lodge E, Garioch JJ. (2004) A comparison of narrowband (TL- 01) ultraviolet B-induced erythematous response at different body sites. Br J Dermatol; 151 (Suppl. 68): 103-4 (Abstr.)	
Lloyd JJ. (2004) Variation in calibration of hand-held ultraviolet (UV) meters for psoralen plus UVA and narrow-band UVB phototherapy. Br J Dermatol; 150(6):1162-6	
Makki S, Quencez E, Humbert P. (1989) 5-methoxypsoralen pharmacokinetics in psoriatic patients. In: Psoralens: Past, Present and Future of Photochemoprotection and other biological activities. Eds Fitzpatrick TB, Forlot P, Pathak MA, Urbach F. John Libbey Eurotext Paris pp. 167-174	
Man I, Dawe RS, Ferguson J. (1999) Artificial hardening for polymorphic light eruption: practical points from ten years' experience. Photodermatol Photoimmunol Photomed; 15: 96-99	
Man I, Kwok YK, Dawe RS, Ferguson J, Ibbotson SH. (2003) The time course of topical PUVA erythema following 15- and 5-minute methoxsalen immersion. Arch Dermatol;139(3):331-4	
Man I, McKinlay J, Dawe RS, Ferguson J, Ibbotson SH. (2003) An intraindividual comparative study of psoralen-UVA erythema induced by bath 8- methoxypsoralen and 4, 5', 8-trimethylpsoralen. J Am Acad Dermatol; 49 (1): 59-64	
Man I, Dawe RS, Ferguson J, Ibbotson SH. (2004) The optimal time to determine the minimal phototoxic dose in skin photosensitised by topical 8 methoxypsoralen. Br J Dermatol: 151: 179-182	
Marsland AM, Chalmers RJ, Hollis S, Leonardi-Bee J, Griffiths CE.(2006) Interventions for chronic palmoplantar pustulosis. Cochrane Database Syst Rev.; CD001433.	
Martindale (2005) 34th ed The Complete Drug Reference Pharmaceutical press London	
Mclelland J, Fisher C, Farr PM, Diffey BL, Cox NH. (1991)The relationship between plasma psoralen concentration and psoralen-UVA erythema. Br J Dermatol; 124 (6): 585-90	
Morison WL, Parrish JA, Fitzpatrick TB. (1978a) Oral psoralen photochemotherapy of atopic eczema. Br J Dermatol; 98: 25-30	
Morison WL, Parrish JA, Fitzpatrick TB. (1978b) Controlled study of PUVA and adjunctive topical therapy in the management of psoriasis. Br J Dermatol. Feb;98(2):125-32.	
Moseley H, Cox NH, MacKie RM. (1988) The suitability of sunglasses used by patients following ingestion of psoralen. Br J Dermatol; 118: 247- 253	
Moseley H, Jones SK. (1990) Clear ultraviolet blocking lenses for use by PUVA patients. Br J Dermatol; 123: 775-781	
Moseley H, Perkins W. (1992) Clear eyewear for PUVA patients. Br J Dermatol; 127: 657-658	
Mountford PJ. (1990) A comparative assessment of the ultraviolet radiation transmission of sunglasses for patients receiving photochemotherapy. Clin Phys Physiol Meas; 11: 333-341	
Murphy GM, Logan RA, Lovell CR, Morris RW, Hawk JLM, Magnus IA. (1987) Prophylactic PUVA and UVB therapy in polymorphic light eruption – a controlled trial. Br J Dermatol; 116: 531-8	
Natta R, Somsak T, Wisuttida T, Laor L. (2003) Narrowband ultraviolet B radiation therapy for recalcitrant vitiligo in Asians. J Am Acad Dermatol; 49 (3): 473-6	
Njoo MD, Bos JD, Westerhof W. (2000) Treatment of generalised vitiligo in children with narrow-band (TL-01) UVB radiation therapy. J Am Acad Dermatol; 42 (2 Pt 1): 245-53	
Palmer RA, Friedmann PS. (2004) A comparison of six and 12 PUVA treatments in the prophylaxis of polymorphic light eruption. Clin Exp Dermatol; 29(2): 141-3.	
Photonet. (2010)Standards for Photonet National Managed Clinical Network. www.photonet.scot.nhs.uk	

Quinn AG, Diffey BL, Craig PS, Farr PM. (1994) Definition of the minimal erythema dose used for diagnostic phototesting. Br J Dermatol; 131 Suppl. 44: 56	
Ramsay DL, Lish KM, Yalowitz CB, Soter NA. (1992) Ultraviolet-B phototherapy for early-stage cutaneous T-cell lymphoma. Arch Dermatol; 128 (7): 931-3	
RCN (2005) RCN/British Dermatological Nursing Group Competencies: an integrated career and competency framework for dermatology nursing. Royal College of Nursing London	
Rhodes LE, Friedmann PS.(1992) A comparison of the ultraviolet-B induced erythema response of back and buttock skin. Photodermatol Photoimmunol Photomed; 9: 48-51	
Roelandts R. (1995) Photo(chemo)therapy and general management of erythropoietic protoporphyria. Dermatology; 190: 330-1	
Roenigk (1977) Photochemotherapy for mycosis fungoides. Arch Dermatol 1977; 113: 1047-1051	
Ros AM. (1988) PUVA therapy for erythropoietic protoporphyria. Photodermatol.;5:148-9	
Sakuntabhai A, Farr PM, Diffey BL. (1992) Variable photosensitivity and clinical response of psoriasis to PUVA with conventional 8-methoxypsoralen dosage. Br J Dermatol; 127: 421 (Abstr.)	
Sakuntabhai A, Sharpe GR, Farr PM. (1993) Response of psoriasis to twice weekly PUVA. Br J Dermatol; 128 (2): 166-71	
Sakuntabhai A, Matthews JNS, Farr PM. (1994) Improved prediction of the minimal phototoxic dose in PUVA therapy. Br J Dermatol; 130: 604-9	
Sarkany R, Palmer R, Garibaldinos T, Hawk J (2009) Phototherapy guidelines. Dowling Treatment Unit, St. John's Institute of Dermatology, St Thomas' Hospital, London.	
Sheehan MP, Atherton DJ, Norris P, Hawk J. (1993) Oral psoralen photochemotherapy in severe childhood atopic eczema: an update. Br J Dermatol; 129 (4): 431-6	
Edwards C. (2009) Gwent Healthcare NHS Trust: Phototherapy & photodynamic therapy service, standards and protocols. Gwent Health Care Trust, Gwent	
Tjioe M, Gerritsen MJ, Juhlin L, van de Kerkhof PC. (2002) Treatment of vitiligo vulgaris with narrow band UVB (311nm) for one year and the effect of addition of folic acid and vitamin B12. Acta Derm Venereol; 82 (5): 369-72	
Wainwright, Dawe RS, Ferguson J. (1998) Narrowband ultraviolet B (TL-01) phototherapy for psoriasis: which incremental regimen? Br J Dermatol; 139 (3): 410-4	
Warren LJ, George S. (1998) Erythropoietic protoporphyria treated with narrow-band (TL-01) UVB phototherapy. Australasian J Dermatol; 39: 179- 182	
Waterston K, Naysmith L, Rees JL. (2004) Physiological variation in the erythema response to ultraviolet radiation and photoadaptation. J Invest Dermatol; in press.	
Westerhof W, Nieuweboer-Krobotova L. (1997) Treatment of vitiligo with UV-B radiation vs topical psoralen plus UV-A. Arch Dermatol; 133 (12): 1525-8	
Whittaker SJ, Marsden JR, Spittle M, Russell Jones R. (2003) Joint British Association of Dermatologists and UK Cutaneous Lymphoma Group guidelines for the management of primary cutaneous T-cell lymphomas. Br J Dermatol; 149: 1095-1107	
Yones SS, Palmer RA, Garibaldinos TT, Hawk JL. (2006) Randomized double-blind trial of the treatment of chronic plaque psoriasis: efficacy of psoralen-UV-A therapy vs narrowband UV-B therapy. Arch Dermatol.;142:836-42	
Association Of Chartered Physiotherapists in Women's Health: Standards	
British Occupational Therapy Society In Practice: Informed Consent The New Litigation Playground	
Department of Health: Consent to Treatment	
Royal College Of Speech and Language Therapists: Information Sheet: Consent	
The British Dietetic Association: Good Practice in Consent: A Guide For Dietitians	
The Chartered Society of Physiotherapy: Rules of Professional Conduct Core Standards	
Worcestershire Acute Hospital Trust: Consent to Examination and Treatment	

Policy	
Mental Capacity Act 2005	
Diserens K; Michel P & Bogousslavsky J (2006). Early Mobilisation after Stroke: Review of the Literature. <i>Cerebrovascular Disease</i> ; 22: 183-190.	
Bernhardt et al (2009). Very Early versus delayed Mobilisation after Stroke. <i>Cochrane Database of Stroke Reviews</i> . Issue 1; Art No: CD006187.	
National Clinical Guideline for Stroke, Third Edition (2008). Clinical Effectiveness & Evaluation Unit, Royal College of Physicians.	
Bernhardt et al (2008). A Very Early Rehabilitation Trial for Stroke (AVERT) <i>Stroke</i> 2008; 39: 390-396.	
Byles, S.E. and Ling, R.S.M. (1989). Orthopaedic outpatients – a fresh approach. <i>Physiotherapy</i> 75, 435-437.	
CSP (2002) Physiotherapy Consultant (NHS): Role, Attributes and Guidance for Establishing Posts. PA 56. Fact sheet. The Chartered Society of Physiotherapy, London.	
Daker-White, G., Carr, A. J., Harvey, I., Woolhead, G., Bannister, G., Nelson, I. and Kammerling, M. (1999). A randomised controlled trial. Shifting boundaries of doctors and physiotherapist in orthopaedic outpatient departments. <i>Journal of Epidemiology in Community Health</i> . 53, 643-650.	
Department of Health (2000). The NHS Plan. The Stationary Office, London.	
Department of Health (2006). Musculoskeletal Services Framework http://www.18weeks.nhs.uk/secure/default.aspx?load=ArticleViewer&ArticleId=831 accessed 17th May 2007	
ESP OIG (2006) Constitution for Extended scope Practitioner's Occupational Interest Group. ESP OIG	
Gardiner J & Turner (2002) Accuracy of clinical diagnosis of internal derangement of the knee by extended scope physiotherapists and orthopaedic doctors: Retrospective audit. <i>Physiotherapy</i> 88(3) p153-157	
Harrison, J., Rangan, A., Shetty, A. and Robinson, C. (2001) Reducing waiting times: physiotherapy shoulder assessment clinic. <i>British Journal of Therapy and Rehabilitation</i> , 8(2), 57-59.	
McPherson K, Kersten P, George, S, Lattimer V, Breton A, Ellis B, Kaur, D & Frampton G. (2006) A systematic review of evidence about extended roles for allied health professionals. <i>Journal of Health Services and Research Policy</i> . 11(4) p240-247.	
Royal College of Nursing (2006) Clinical Imaging Requests from non-medically qualified professionals RCN London.	
The Royal College of Radiologists Referral guidelines (MBUR6) (2007), http://mbur.nhs.uk/ accessed 06/09/10	
Weale AE & Bannister GC (1995). Who should see orthopaedic outpatients – physiotherapists or surgeons? <i>Annals of Royal college of Surgeons</i> . 77 p71-3.	
Weatherley CR & Hourigan PG. (1998). Triage of Back Pain by physiotherapists in orthopaedic clinics. <i>Journal of the Royal society of Medicine</i> . 91(7) p377-379.	
Byles, S.E. and Ling, R.S.M. (1989). Orthopaedic outpatients – a fresh approach. <i>Physiotherapy</i> 75, 435-437.	
CSP (2002) Physiotherapy Consultant (NHS): Role, Attributes and Guidance for Establishing Posts. PA 56. Fact sheet. The Chartered Society of Physiotherapy, London.	
Daker-White, G., Carr, A. J., Harvey, I., Woolhead, G., Bannister, G., Nelson, I. and Kammerling, M. (1999). A randomised controlled trial. Shifting boundaries of doctors and physiotherapist in orthopaedic outpatient departments. <i>Journal of Epidemiology in Community Health</i> . 53, 643-650.	
Department of Health (2000). The NHS Plan. The Stationary Office, London.	
Department of Health (2006). Musculoskeletal Services Framework http://www.18weeks.nhs.uk/secure/default.aspx?load=ArticleViewer&ArticleId=831 accessed 17th May 2007	

ESP OIG (2006) Constitution for Extended scope Practitioner's Occupational Interest Group. ESP OIG	
Gardiner J & Turner (2002) Accuracy of clinical diagnosis of internal derangement of the knee by extended scope physiotherapists and orthopaedic doctors: Retrospective audit. Physiotherapy 88(3) p153-157	
Harrison, J., Rangan, A., Shetty, A. and Robinson, C. (2001) Reducing waiting times: physiotherapy shoulder assessment clinic. British Journal of Therapy and Rehabilitation, 8(2), 57-59.	
McPherson K, Kersten P, George, S, Lattimer V, Breton A, Ellis B, Kaur, D & Frampton G. (2006) A systematic review of evidence about extended roles for allied health professionals. Journal of Health Services and Research Policy. 11(4) p240-247.	
Royal College of Nursing (2006) Clinical Imaging Requests from non-medically qualified professionals RCN London.	
The Royal College of Radiologists Referral guidelines (MBUR6) (2007), http://mbur.nhs.uk/ accessed 06/09/10	
Weale AE & Bannister GC (1995). Who should see orthopaedic outpatients – physiotherapists or surgeons? Annals of Royal college of Surgeons. 77 p71-3.	
Weatherley CR & Hourigan PG. (1998). Triage of Back Pain by physiotherapists in orthopaedic clinics. Journal of the Royal society of Medicine. 91(7) p377-379.	
ACPIN Guidance on Manual Handling in Treatment	
Department of Health (2001) National Service Framework for Older People. London:HMSO	
Dowsell, T (1999) Accidental falls:fatalities and injuries. An examination of the data sources and review of the literature on preventive strategies. University of Newcastle, London, DTI	
'Falls and Pitfalls leaflet'. Developed by Worcestershire Trusts	
Lord, S et al (2001) Falls in Older People – Risk factors and strategies for prevention. Cambridge University Press	
National Institute for Clinical Effectiveness (2004). Clinical Guidelines for the assessment and prevention of falls in older people. RCN. London	
Reece, A. Simpson, JM.(1996) Teaching elderly people how to cope after a fall. Physiotherapy 82: p 227 -235	
Simpson, J. (1996) Guidelines for the Collaborative Rehabilitative Management of Elderly People who have fallen. Clinical guidelines (AGILE,ACPC,OCTEP) Version 10b	
Simpson, J. Mandelstam, H. (1995) Elderly people at risk of falling:do they want to be taught how to get up again? Clinical Rehabilitation 9: p 65-69	
Tinetti, M. E., Baker, D. et al (1997) Reducing the risk of falls among older adults in the community. In G. Feder et al Guidelines for the prevention of falls in people over 65. British Medical Journal 321: 1007 -11	
Tinetti,M., Liu, W., Claus, E. (1994) Predictors and prognosis of inability to get up after falls among elderly persons. Journal of American Medical Association 269: 65 -70	
Based on current local best practice following discussion with Orthopedic Consultants and Orthopedic Physiotherapy Practitioner.	
Watts R.W, Silagy C.A. A meta analysis on the efficiency of epidural corticosteroid in the treatment of sciatica. Anesthesia and intensive care 1995 23(s) 564-569	
Clinical Standards Advisory Group report on low back pain 1994	
Greenhalgh, S. and Selfe, J. (2009) Red Flags II: A guide to solving serious pathology of the spine. Edinburgh, Churchill Livingstone	
BEWYER, D. C. & BEWYER, K. J. (2003) Rationale for treatment of hip abductor pain syndrome. Iowa Orthop J, 23, 57-60.	
DEL BUONO, A., PAPALIA, R., KHANDUJA, V., DENARO, V. & MAFFULLI, N. (2012) Management of the greater trochanteric pain syndrome: a systematic review. British Medical Bulletin, 102, 115-131.	

GREENHALGH, S. & SELFE, J. (2009) Red flags : a guide to identifying serious pathology of the spine, Edinburgh ; New York, Churchill Livingstone Elsevier.	
HATTAM, P. & SMEATHAM, A. (2010) Special tests in musculoskeletal examination : an evidence-based guide for clinicians, Edinburgh, Churchill Livingstone Elsevier.	
HOWELL, G. E., BIGGS, R. E. & BOURNE, R. B. (2001) Prevalence of abductor mechanism tears of the hips in patients with osteoarthritis. J Arthroplasty, 16, 121-3.	
ILIZALITURRI, V. M., JR., CAMACHO-GALINDO, J., EVIA RAMIREZ, A. N., GONZALEZ IBARRA, Y. L., MCMILLAN, S. & BUSCONI, B. D. (2011) Soft tissue pathology around the hip. Clin Sports Med, 30, 391-415.	
KLAUSER, A. S., MARTINOLI, C., TAGLIAFICO, A., BELLMANN-WEILER, R., FEUCHTNER, G. M., WICK, M. & JASCHKE, W. R. (2013) Greater trochanteric pain syndrome. Semin Musculoskelet Radiol, 17, 43-8.	
LASLETT, M., APRILL, C. N., MCDONALD, B. & YOUNG, S. B. (2005) Diagnosis of sacroiliac joint pain: validity of individual provocation tests and composites of tests. Man Ther, 10, 207-18.	
LEDERMAN, E. (1997) Fundamentals of manual therapy : physiology, neurology, and psychology, New York ; London, Churchill Livingstone.	
LEE, D. & HODGES, P. W. (2004) The pelvic girdle : an approach to the examination and treatment of the lumbopelvic-hip region, Edinburgh ; New York, Churchill Livingstone.	
LONGBOTTOM, J. (2010) Acupuncture in manual therapy, Edinburgh, Churchill Livingstone.	
MAHIEU, N. N., MCNAIR, P., DE MUYNCK, M., STEVENS, V., BLANCKAERT, I., SMITS, N. & WITVROUW, E. (2007) Effect of static and ballistic stretching on the muscle-tendon tissue properties. Med Sci Sports Exerc, 39, 494-501.	
MARTIN, R. L. & SEKIYA, J. K. (2008) The interrater reliability of 4 clinical tests used to assess individuals with musculoskeletal hip pain. J Orthop Sports Phys Ther, 38, 71-7.	
MATSUO, S., SUZUKI, S., IWATA, M., BANNO, Y., ASAI, Y., TSUCHIDA, W. & INOUE, T. (2013) Acute effects of different stretching durations on passive torque, mobility, and isometric muscle force. J Strength Cond Res.	
MITCHELL, B., MCCRORY, P., BRUKNER, P., O'DONNELL, J., COLSON, E. & HOWELLS, R. (2003) Hip joint pathology: clinical presentation and correlation between magnetic resonance arthrography, ultrasound, and arthroscopic findings in 25 consecutive cases. Clin J Sport Med, 13, 152-6.	
NAKAMURA, M., IKEZOE, T., TAKENO, Y. & ICHIHASHI, N. (2013) Time course of changes in passive properties of the gastrocnemius muscle-tendon unit during 5 min of static stretching. Manual Therapy, 18, WAHT-PHY-038211-5.	
PLANTE, M., WALLACE, R. & BUSCONI, B. D. (2011) Clinical diagnosis of hip pain. Clin Sports Med, 30, 225-38.	
REES, J. D., MAFFULLI, N. & COOK, J. (2009) Management of tendinopathy. Am J Sports Med, 37, 1855-67.	
ROBERTSON, V. J. & BAKER, K. G. (2001) A review of therapeutic ultrasound: effectiveness studies. Phys Ther, 81, 1339-50.	
ROMPE, J. D., SEGAL, N. A., CACCHIO, A., FURIA, J. P., MORRAL, A. & MAFFULLI, N. (2009) Home training, local corticosteroid injection, or radial shock wave therapy for greater trochanter pain syndrome. Am J Sports Med, 37, 1981-90.	
STRAUSS, E. J., NHO, S. J. & KELLY, B. T. (2010) Greater trochanteric pain syndrome. Sports Med Arthrosc, 18, 113-9.	
VICENZINO, B. (2011) Mobilisation with movement : the art and the science, Edinburgh, Churchill Livingstone.	
WARDEN, S. J., METCALF, B. R., KISS, Z. S., COOK, J. L., PURDAM, C. R., BENNELL, K. L. & CROSSLEY, K. M. (2008) Low-intensity pulsed ultrasound for chronic patellar tendinopathy: a randomized, double-blind, placebo-controlled trial. Rheumatology (Oxford), 47, 467-71.	
WILLIAMS, B. S. & COHEN, S. P. (2009) Greater trochanteric pain syndrome: a review of anatomy,	

<p>diagnosis and treatment. <i>Anesthesia & Analgesia</i>, 108, 1662-70.</p>	
<p>De Klerk A (2008) Humidified High Flow Nasal Cannula. Is it the new CPAP? <i>Advances in neonatal care</i> 8 (2): 98-106</p> <p>Frat JP, Goudet V, Girault C. (2013) High flow, humidified-reheated oxygen therapy: a new oxygenation for adults <i>Rev Mal Respir</i> 30 (8): 627-643</p> <p>Gotera C, Diaz Lobato S, Pinto T, Winck JC (2013) Clinical Evidence on high flow oxygen therapy and active humidification in adults <i>Elsevier</i> 19 217-27</p> <p>Schwabbauer N, Berg B, Blumenstock G, Haap M, Hetzel J, Riessen R. (2014) Nasal high-flow oxygen therapy in patients with hypoxic respiratory failure: effect on functional and subjective respiratory parameters compared to conventional oxygen therapy and non-invasive ventilation <i>BMC Anesthesiol</i> 66 (10) 1186-1471</p> <p>WAHT-RES-001: Guideline for the Prescribing, Monitoring and Administration of Oxygen in Adults: Version 4, January 2014</p> <p>WAHT-RES-006: Arterial Blood Gas Sampling for Trained Professionals: Version 2, September 2012</p> <p>WAHT-RES-007: Ear Lobe Capillary Blood Gas Sampling for Respiratory Practitioners: Version 1, December 2013</p>	
<p>A comprehensive literature search was carried out to identify research relating to surgery for tibialis posterior tendon dysfunction and subsequent rehabilitation. After reviewing the articles and information, the physiotherapy guidelines were produced on the best available evidence.</p> <ul style="list-style-type: none"> • Benton-Weil W & Weil L (1999) "The Cobb Procedure for Stage II Posterior Tibial Tendon Dysfunction" <i>Clinics in Podiatric Medicine and Surgery</i> 16, (3): 471-477 • Campbells Operative Orthopaedics: 10th Edition (2003) Mosby: London • Caracchiolo A (1997) "Evaluation of spring ligament pathology in patients with posterior tibial tendon rupture, tendon transfer and ligament repair" <i>Foot and Ankle Clinics</i> 2, (2), 297-307 • Coetzee J & Hansen S (2001) "Surgical Management of Severe Deformity Resulting from Posterior Tibial Tendon Dysfunction" <i>Foot & Ankle International</i> 22, (12): 944-949 • Dipreta et al (2001) "Conservative Management of Acquired Flat Foot" <i>Physical Medicine and Rehabilitation</i> 15 (3), 625-635 • Feldman et al (2001) "In situ tibialis posterior to Flexor digitorum longus tendon transfer for tibialis posterior tendon dysfunction: a simplified surgical approach with outcome of 11 patients" <i>Journal of Foot and Ankle Surgery</i> 40, (1), 2-7 • Kohls-Gatzoulis et al (2004) "Tibialis Posterior Dysfunction: a Common and Treatable Cause of Adult Acquired Flat Foot" <i>BMJ</i> 329: 1328-1333 • Lee M (2005) "Posterior calcaneal displacement osteotomy for adult acquired flat foot" <i>Clinics of Podiatric Medicine and Surgery</i> 22, 277-289 • McCollister Evarts (1990) "Surgery of the Musculoskeletal System" 2nd Edition, Volume 4, Churchill Livingstone: London • Miller R, DeCoster T & Mizej M (2005) "What's New in Foot and Ankle Surgery?" <i>The Journal of Bone and Joint Surgery</i> 87, (4): 909-917 • Myerson & Corrigan (1996) "Treatment of posterior tibial tendon dysfunction with Flexor Digitorum Longus tendon transfer and calcaneal osteotomy" • Myerson et al (1995) "Tendon transfer combined with calcaneal osteotomy for treatment of posterior tibial tendon insufficiency: a radiological investigation" • Wacker J, Hennessy M & Saxby T (2002) "Calcaneal Osteotomy and Transfer of Flexor Digitorum Longus for Stage II Dysfunction of Tibialis Posterior: three to five year results" <i>Journal of Bone and Joint Surgery</i> 84B, (1): 54-58 • Weil L, Benton-Weil W, Borrelli A & Weil L (1998) "Outcome for Surgical Correction for Stages 2 and 3 Tibialis Posterior Dysfunction" <i>Journal of Foot and Ankle Surgery</i> 37, (6): 467-471 	

SUPPORTING DOCUMENT ONE – EQUALITY IMPACT ASSESSMENT TOOL

To be completed by the Treatment pathway owner and submitted to the appropriate committee for consideration and approval.

		Yes/No
1.	Does the treatment pathway affect one group less or more favourably than another on the basis of:	
	Race	no
	Ethnic origins (including gypsies and travellers)	no
	Nationality	no
	Gender	no
	Culture	no
	Religion or belief	no
	Sexual Orientation	no
	Age	no
2.	Is there any evidence that some groups are affected differently?	yes
3.	If you have identified potential discrimination, are any exceptions valid, legal and/or justifiable?	no
4.	Is the impact of the policy/guidance likely to be negative? If so can the impact be avoided?	no
5.	What alternatives are there to achieving the policy/guidance without the impact?	n/a
6.	Can we reduce the impact by taking different action?	n/a
7.	Other comments	Some patients are managed differently due to Consultant post op instructions

If you have identified a potential discriminatory impact of this key document, please refer it to Human Resources, together with any suggestions as to the action required to avoid/reduce this impact.

For advice in respect of answering the above questions, please contact Human Resources.

SUPPORTING DOCUMENT TWO – FINANCIAL IMPACT ASSESSMENT

To be completed by the Treatment pathway owner and submitted to the appropriate committee for consideration and approval.

		Yes/No
1.	Does the implementation of this document require any additional Capital resources	no
2.	Does the implementation of this document require additional revenue	no
3.	Does the implementation of this document require additional manpower	no
4.	Does the implementation of this document release any manpower costs through a change in practice	no
5.	Are there additional staff training costs associated with implementing this document which cannot be delivered through current training programmes or allocated training times for staff	no
6.	Other comments	

If the response to any of the above is yes, please complete a business case and which is signed by your Finance Manager and Directorate Manager for consideration by the Accountable Director before progressing to the relevant committee for approval