

## Guideline topic: Management of Psoriasis and Psoriatic Arthritis

### Search coverage

#### Patient searches

The patient search was conducted using the search strategy outlined below in conjunction with the patient search filter.

Databases covered: **Medline, Embase, CINAHL, PsycINFO**      Dates covered: All databases searched without date limitations (Medline 1950-2008; Embase 1980-2008; CINAHL ; PsycINFO 1806 -2008)

Total hits: (Medline , Embase , CINAHL , PsycINFO) 918

Sifted result: 95

#### Medline search strategy

(See below)

#### Guidelines

Websites searched for relevant guidelines:

Agency for Health Care Research and Quality (AHRQ)      <http://www.ahrq.gov/>

ASERNIP-S

<http://www.surgeons.org/Content/NavigationMenu/Research/ASERNIPS/ASERNIPSPublications/default.htm>

Canadian Medical Association      <http://mdm.ca/cpgsnew/cpgs/index.asp>

Centre for Clinical Effectiveness (Australia)

<http://www.med.monash.edu.au/healthservices/cce/>

Health Technology Assessment      <http://www.hta.nhsweb.nhs.uk/>

NHS Centre for Reviews and Dissemination

<http://www.york.ac.uk/inst/crd/welcome.htm>

NHS Quality Improvement Scotland      <http://www.nhshealthquality.org>

National Institute for Clinical Excellence (NICE)      <http://www.nice.org.uk/>

National Electronic Library for Health

<http://www.library.nhs.uk/guidelinesFinder/>

National Guideline Clearinghouse      <http://www.guideline.gov/>

National Health and Medical Research Council (NHMRC)

<http://www.health.gov.au/nhmrc/publications/index.htm>

New Zealand Guidelines Group      <http://www.nzgg.org.nz/>

PRODIGY Knowledge      <http://www.prodigy.nhs.uk/>

Swedish Council on Technology Assessment in Health Care (SBU)

<http://www.sbu.se/www/index.asp>

TRIP Database      <http://www.tripdatabase.com/>

Total hits: 21

#### Systematic reviews

Databases covered: **Medline, Embase, CINAHL, PsycINFO, Cochrane, AMED**      Dates covered: All databases searched without date limitations (Medline 1950-2008; Embase 1980-2008; CINAHL ; PsycINFO 1806 -2008)

Total hits: 321

Sifted result: 110

Papers requested: 92

**RCTs**

Databases covered: **Medline, Embase, CINAHL, PsycINFO, Cochrane** Dates covered: (with variations depending on topic; see Scope of Searches below)  
 Searches carried out Jan-Mar 2009.

**Observational studies/ Searches without filter**

Databases covered: **Medline, Embase, CINAHL, PsycINFO** Dates covered: (with variations depending on topic; see Scope of Searches below)  
 Searches carried out Jan-Mar 2009.

**Search strategies**

The following are listings of the main Medline strategies used for this guideline. All conventions and symbols are from the Ovid implementation of Medline. Strategies used in other databases were substantially the same, though different terminology may have been used to take account of different thesauri used in non-Medline databases. Search filters were added to identify studies of a particular type (systematic review, RCT etc.) Listings of the search filters used by SIGN can be found on the SIGN Web site.

**Patient & Generic Stem:**

1. exp Psoriasis/
2. exp Arthritis, Psoriatic/
3. psorias\*.tw.
4. (psoria\* adj5 arthrit\*).tw.
5. pustulosis.tw.
6. palmoplant\*.tw.
7. or/1-6

**Scope of searches for RCTs /Observational studies/searches without filter**

KQ	Type of studies	Date range	Initial recall	Sifted result
1	All (no filter)	No limit	2022	138
2	All (no filter)	2004-2008	3039	117
3	All (no filter)	No limit	298	37
5	RCT	No limit (83-08)	1545	44
5 (fatty acids)	RCT	No limit	1752	35 (73-08)
6a	RCT	No limit	584	16 (90-08)
6b	All (no filter)	No limit	263	29
7	RCT	2004-2009	1160	994
8	RCT	No limit	1471	37 (2004-2008) 89 (Pre-2004)
9 (DMARDs)	RCT	2005-2009	253	5
9 (MTX)	RCT	2007-2009	339	11
11	All (no filter)	2004-2009	1541	47
12 (DMARDs)	RCT	No limit	599	6
12 (Biologicals)	RCT	No limit	590	12

13	RCT	No limit	649	77
13 (inter)	RCT	No limit	26	3
13	Observational	No limit	332	15
16	RCT	No limit	317	35
17 and 18	All (no filter)	1996-2009	1407	60

## Medline Search strategies used for specific key questions:

### KQ 1 (screening tool)

1. exp Mass Screening/
2. screen\*.tw.
3. exp Arthritis, Psoriatic/cl, di [Classification, Diagnosis]

### KQ 2 (co-morbidities)

1. exp Alcohol-Related Disorders/
2. alcohol\*.tw.
3. exp Vascular Diseases/
4. (vascular adj3 (disease\* or disorder\*)).tw.
5. exp Lymphoma/
6. lymphoma\*.tw.
7. Liver Diseases/
8. (liver adj3 (disease\* or disorder\*)).tw.
9. exp Inflammatory Bowel Diseases/
10. ibd.tw.
11. (bowel adj3 (disease\* or disorder\*)).tw.
12. colitis\*.tw.
13. crohn\*.tw.
14. exp Comorbidity/
15. comorbidit\*.tw.
16. or/1-15

### KQ3 (early diagnosis/treatment)

(Cochrane search strategy)

- #1 MeSH descriptor Psoriasis explode all trees
- #2 MeSH descriptor Arthritis, Psoriatic explode all trees
- #3 (pustulosis\*):ti,ab,kw
- #4 (palmoplant\*):ti,ab,kw
- #5 (psoria\* near/5 arthrit\*):ti,ab,kw
- #6 (psorias\*):ti,ab,kw
- #7 (#1 OR #2 OR #3 OR #4 OR #5 OR #6)
- #8 (early and (diagnosis or treatment\*)):ti,ab,kw
- #9 (late and (diagnosis or treatment\*)):ti,ab,kw
- #10 (#7 AND ( #8 OR #9 ))

### KQ5 (Complementary therapies/physiotherapy/occupational therapy)

1. exp Complementary Therapies/

2. (complementary adj3 (therap\* or medicine\*)).tw.
3. (alternative adj3 (therap\* or medicine\*)).tw.
4. dead sea.tw.
5. sea salt\*.tw.
6. exp Seawater/
7. exp Baths/
8. exp Sodium Bicarbonate/
9. exp Balneology/
10. seawater\*.tw.
11. (sea adj3 water\*).tw.
12. balneotherap\*.tw.
13. exp Seaweed/
14. (seaweed\* or sea weed\*).tw.
15. exp Homeopathy/
16. homeopath\*.tw.
17. exp Acupuncture Therapy/ or exp Acupuncture/
18. acupuncture\*.tw.
19. exp Therapeutic Touch/
20. reiki.tw.
21. exp Physical Therapy Modalities/
22. physiotherap\*.tw.
23. exp Occupational Therapy/
24. occupational therap\*.tw.
25. exp Tonsillectomy/
26. tonsillectom\*.tw.
27. exp Streptococcal Infections/
28. exp Anti-Bacterial Agents/
29. antistreptococcal\*.tw.
30. or/1-29

#### **KQ5 (fatty acids/vitamins)**

1. exp Vitamins/
2. vitamin\*.tw.
3. exp Fatty Acids/
4. exp Fatty Acids, Omega-3/
5. fatty acid\*.tw.
6. (omega-3 or omega 3).tw.
7. pufa\*.tw.
8. exp Dietary Supplements/
9. dietary supplement\*.tw.
10. or/1-9

**KQ6a (lifestyle modification)**

1. exp Motor Activity/
2. (physical adj3 activit\$).tw.
3. exp Exercise/
4. exp Exercise Therapy/
5. exercis\$.tw.
6. exp Life Style/
7. lifestyle\$.tw.
8. (life adj3 style\$).tw.
9. exp Health Behavior/
10. (health adj3 (behavior\$ or behaviour\$)).tw.
11. exp Diet/
12. exp Dietary Supplements/
13. diet\$.tw.
14. nutrition\$.tw.
15. exp Obesity/
16. exp Body Weight/
17. obes\$.tw.
18. weight\$.tw.
19. exp Smoking/
20. (smoking or smoker\*).tw.
21. exp Alcohol-Related Disorders/
22. exp Alcoholic Beverages/
23. alcohol\*.tw.
24. drinking.tw.
25. exp Employment/
26. exp Occupations/
27. (employment\* or occupation\* or work).tw.

**KQ6b (psychological therapy, peer support)**

1. Psychotherapy/
2. (psycho\* adj3 therap\*).tw.
3. psychotherap\*.tw.
4. exp Cognitive Therapy/
5. (cognit\* adj3 therap\*).tw.
6. ((behaviour or behavior) adj3 therap\*).tw.
7. psychoeducation.tw.
8. CBT.tw.
9. exp Peer Group/
10. exp Self-Help Groups/

11. (peer adj3 group\*).tw.
12. ((support or self-help or self help) adj3 group\*).tw.
13. or/1-12

### **KQ7 (Topical therapy)**

1. exp Tars/
2. (tar or tars).tw.
3. vitamin d derivative\*.tw.
4. vitamin d analogue\*.tw.
5. exp Steroids/
6. exp Adrenal Cortex Hormones/
7. exp Retinoids/
8. retinoid\*.tw.
9. corticosteroid\*.tw.
10. steroid\*.tw.
11. exp emollient agent/
12. emollient\*.tw.
13. exp Anthralin/
14. dithranol\*.tw.
15. exp Tacrolimus/
16. tacrolimus.tw.
17. topical immune modulator\*.tw.
18. (topical adj3 therap\*).tw.
19. (topical adj3 treatment\*).tw.
20. (topical adj3 agent\*).tw.
21. or/1-20

### **KQ8 (Phototherapy)**

1. exp Psoriasis/
2. psorias\*.tw.
3. or/1-2
4. exp Phototherapy/
5. exp Photochemotherapy/
6. phototherap\*.tw.
7. photochemotherap\*.tw.
8. exp Ultraviolet Rays/
9. exp Ultraviolet Therapy/
10. ultraviolet\*.tw.
11. (uv or UVB or UVA).tw.
12. puva\*.tw.
13. psoralen\*.tw.

14. exp Lasers, Excimer/
15. (excimer adj3 laser\*).tw.
16. heliotherap\*.tw.
17. sunbed\*.tw.
18. sun bed\*.tw.
19. or/4-18
20. 3 and 19

### **KQ9 (DMARDs for Psoriasis)**

1. exp Sulfasalazine/
2. sulphasalazine\*.tw.
3. sulfasalazine\*.tw.
4. leflunomide\*.tw.
5. leflunamide\*.tw.
6. exp Hydroxyurea/
7. hydroxyurea\*.tw.
8. exp Acitretin/
9. acitretin\*.tw.
10. or/1-9

### **KQ9 (MTX, cyclosporine for Psoriasis)**

1. exp Methotrexate/
2. (methotrexate\* or MTX).tw.
3. exp Cyclosporine/
4. (cyclosporin\* or ciclosporin\*).tw.
5. exp Fumarates/
6. fumar\*.tw.
7. or/1-6

### **KQ12 (DMARDs for Psoriatic arthritis)**

1. exp Antirheumatic Agents/
2. dmard\*.tw.
3. (antirheum\* adj (drug\* or agent\* or therap\*)).tw.
4. auranofin.tw.
5. azathioprine\*.tw.
6. (ciclosporin\* or cyclosporin\*).tw.
7. (d-penicillamine\* or penicillamine\*).tw.
8. hydroxychloroquine\*.tw.
9. leflunomide\*.tw.
10. (methotrexate\* or MTX).tw.
11. sulfasalazine\*.tw.

12. mycophenolate\*.tw.

13. or/1-12

**KQ12 (Biologics for Psoriatic arthritis)**

1. infliximab.tw.

2. adalimumab.tw.

3. etanercept.tw.

4. exp Biological Therapy/

5. (biological adj3 therap\*).tw.

6. or/1-5

**KQ13 (Psoriasis at specific body sites)**

1. exp Scalp/

2. scalp\*.tw.

3. exp Face/

4. (face\* or facial).tw.

5. exp Nails/

6. (nail\* or fingernail\* or toenail\*).tw.

7. exp Hand/

8. hand\*.tw.

9. exp Foot/

10. (foot or feet).tw.

11. genital\*.tw.

12. flexur\*.tw.

13. or/1-12

**KQ16 (treatment concordance)**

1. exp Patient Compliance/

2. exp Attitude to Health/

3. concordance.tw.

4. compliance.tw.

5. adher\*.tw.

6. (illness adj3 perc\*).tw.

7. (patient adj3 (belief\* or perception\*)).tw.

8. or/1-7

**KQ17 and 18 (Referral/care models)**

1. refer\*.tw.

2. exp "Referral and Consultation"/

3. exp Inpatients/

4. inpatient\*.tw.

5. exp patient care management/ or primary health care/

6. ((primary or secondary or tertiary) adj5 care).tw.



7. exp Pain Clinics/ or exp Outpatient Clinics, Hospital/
8. hospital\*.tw.
9. (community adj5 care).tw.
10. (model adj5 care).tw.
11. exp Rural Health Services/
12. rural.tw.
13. ((gp or nurse or consultant or joint or pharmacy or physiotherapy or psychologist) adj5 (clinic or clinics)).tw.
14. or/1-13

NOTE: Results of the patient search were scanned and papers relevant to KQs 15 16 and 19 were selected. Five papers were selected for KQ 15, 4 for KQ 16 and 21 for KQ19.

## Update searches

An update search for systematic reviews and RCTs was carried out on 19/10/09 to identify papers published since the initial literature searches for the guideline were carried out. Dates covered were 2008 to 19 Oct 2009.

Type of studies	Date range	Initial recall	Sifted result
SR	2008-2009	103	14
RCT	2008-2009	991	78