

PENYAKIT KULIT

1 ECZEMA / ATOPIC DERMATITIS

2. PSORIASIS

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KLINIK KESIHATAN BANDAR MAS,

81900, KOTA TINGGI

JOHOR DARUL TAKZIM



• Job Experiences

- 2001 – 2003 : Hospital Sultanah Aminah Johor Bahru. JOHOR
- 2003 – 2007 : Medical & Health Officer KKBM, Kota Tinggi, JOHOR
- 2013 – 2014 : Fam Med Specialist, KK Kapit, SARAWAK
- 2014 – 2015 : Fam Med Specialist , KK Segamat, JOHOR
- 2015-2016 : Fam Med Specialist , KK Kempas, JOHOR
- 2016 Until Now : Fam Med Specialist, KK Bandar Mas, Kota Tinggi, JOHOR

22 years of experience in
healthcare services

Always enthusiastic to
learn and teach new
things to all

Do good to all

DERMATITIS or ECZEMA ?

DERMATITIS

- Inflammation of Skin

ECZEMA

- Inflamed skin with other symptoms like itching, flaky or scaly rash, dry skin

ECZEMA / ESIM

- kronik
- Kondisi kulit radang : ruam kemerahan dan gatal pada kulit, kulit kasar



DERMATITIS or ECZEMA ?

Contact Dermatitis Contact Eczema

Atopic Dermatitis

Atopic Eczema

Seborrheic Eczema Seborrhoeic Dermatitis

Discoid Dermatitis

Discoid Eczema

DIAGNOSIS

- **The U.K. Working Party's Diagnostic Criteria for Atopic Dermatitis:**^{8, level III}

Patient must have an itchy skin condition (or parental report of scratching or rubbing in a child) plus three or more of the following:

- history of involvement of the skin creases such as folds of elbows, behind the knees, fronts of ankles or around the neck (including cheeks in children under 10 years old)
- a personal history of asthma or hay fever (or history of atopic disease in a first-degree relative in children under four years old)
- a history of a general dry skin in the last year
- visible flexural eczema (or eczema involving the cheeks/forehead and outer limbs in children under four years old)

SENSITIVITY 100%, SPECIFICITY 99%

William Kriteria

- Lebih cepat , praktis dan spesifik

1) Terdapat kulit yang gatal (atau tanda garukan pada anak-anak)

DAN lebih dari 3 tanda berikut

- Riwayat perubahan kulit atau kondisi kulit kering di fosa kubiti, fosa popliteal, bahagian anterior dorsum pedis, atau seputar leher (termasuk kedua pipi pada anak < 10 tahun)
- Riwayat asma atau hay fever pada anak (Riwayat atopi pada anak < 4 tahun pada generasi kesatu dalam keluarga)
- Riwayat kulit kering sepanjang akhir tahun, dermatitis fleksural (pipi, dahi, dan paha bagian lateral pada anak < 4 tahun), awitan di bawah < 2 tahun

DIAGNOSIS CRITERIA

GUIDELINES FOR THE DIAGNOSIS OF ATOPIC DERMATITIS (HANIFIN AND RAJKA CRITERIA)

Must have 3 or more basic features:

1. Pruritus
2. Typical morphology and distribution:
 - Flexural lichenification or linearity in adults
 - Facial and extensor involvement in infants and children
3. Chronic or chronically-relapsing dermatitis
4. Personal or family history of atopy (asthma, allergic rhinitis, atopic dermatitis)

Plus 3 or more minor features:

- | | |
|--|--|
| 1. Xerosis | 11. Dennie-Morgan infraorbital fold |
| 2. Ichthyosis/palmar hyperlinearity/keratosis pilaris | 12. Keratoconus |
| 3. Immediate (type 1) skin test reactivity | 13. Anterior subcapsular cataracts |
| 4. Elevated serum IgE | 14. Orbital darkening |
| 5. Early age of onset | 15. Facial pallor/facial erythema |
| 6. Tendency toward cutaneous infections (especially <i>Staphylococcus aureus</i> and <i>Herpes simplex</i>)/impaired cell-mediated immunity | 16. Pityriasis alba |
| 7. Tendency toward non-specific hand or foot dermatitis | 17. Anterior neck folds |
| 8. Nipple eczema | 18. Itch when sweating |
| 9. Cheilitis | 19. Intolerance to wool and lipid solvents |
| 10. Recurrent conjunctivitis | 20. Perifollicular accentuation |
| | 21. Food intolerance |

SENSITIVITY 96%, SPECIFICITY 93.8%

factors

Diagnosis of Atopic Dermatitis Indonesia

Tabel 1. Kriteria Hanifin-Rajka untuk diagnosis DA pada anak-anak(9)

Kriteria Mayor	Kriteria Minor
<ul style="list-style-type: none">- Pruritus- Bintik merah pada wajah dan/atau permukaan kulit ekstensor pada bayi dan anak-anak- Likenifikasi pada permukaan kulit fleksural- Cenderung bersifat kronik dan terjadi rekurensi- Riwayat penyakit dahulu dan penyakit keluarga seperti asma, rhinitis alergi, dan dermatitis atopik	<ul style="list-style-type: none">- <i>Dryness</i>- Lipatan <i>Dennie-Morgan</i> (garis yang meningkat dibawah margin dari kelopak mata bawah)- <i>Alergic shiners</i> (kulit menjadi kehitaman di daerah bawah mata)- <i>Pallor</i> pada wajah- Ptiriasis alba- Keratosis pilaris- Iktiosis vulgaris- Hiperlinear pada telapak tangan dan kaki- Garis berwarna putih pada kulit saat terkena alat tumpul- Konjungtivitis- Keratokonus- Katarak subkapsular anterior- Serum IgE yang meningkat- Uji kulit yang reaktif

3 Kriteria Mayor

Lebih dari 3 Kriteria Minor

KONSEP PENGENDALIAN AD/DA

PASIEN
ORANG TUA
CAREGIVER



EDUKASI

HINDARI
ALLERGEN



TATALAKSANA
AD/ DA

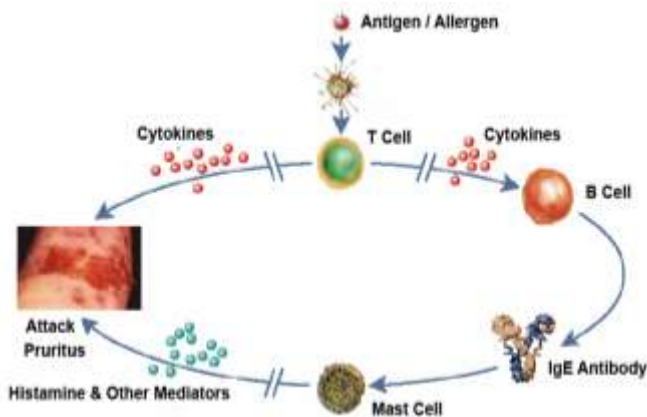
FUNGSI
SAWAR
KULIT



MENGENDALI
SIKLUS /
GATAL



MENGURANGI
INFLAMASI



Gambar 2. Faktor pencetus DA(2)

Clothing: avoid skin contact with irritating fibers (wool, large-fiber textiles); do not use tight and too warm clothing to avoid excessive sweating. New nonirritating clothing designed for AD children is being evaluated

Tobacco: avoid exposure

Cool temperature in bedroom and avoid too many bed covers

Increase emollient use with cold weather

Avoid exposure to herpes sores; urgent visit if flare of unusual aspect

Vaccines: normal schedule in noninvolved skin, including egg-allergic patients (see text)

Sun exposure: no specific restriction. Usually helpful because of improvement of epidermal barrier. Encourage summer holidays in altitude or at beach resorts

Physical exercise, sports: no restriction. If sweating induces flares of AD, progressive adaptation to exercise. Shower and emollients after swimming pool

Food allergens

Maintain breast feeding until 4 mo if possible

Otherwise normal diet, unless an allergy work-up has proven the need to exclude a specific food

Indoor aeroallergens

House dust mites

Use adequate ventilation of housing; keep the rooms well aerated even in winter

Avoid wall-to-wall carpeting

Remove dust with a wet sponge

Vacuum floors and upholstery with an adequately filtered cleaner once a week

Avoid soft toys in bed (cradle), except washable ones

Wash bed sheets at a temperature higher than 55° every 10 days

Use bed and pillow encasings made of Gore-Tex or similar material

Furred pets: advise to avoid. If allergy is demonstrated, be firm on avoidance measures, such as pet removal

Pollen: close windows during peak pollen season on warm and dry weather and restrict, if possible, stays outdoors. Windows may be open at night and early in the morning or during rainy weather. Avoid exposure to risk situations (lawn mowing). Use pollen filters in car. Clothes and pets can vectorize aeroallergens, including pollen

Severity Assessment

- There are numerous scoring tools used to assess AE.
- A systematic review of 382 RCTs showed the commonly used tools in descending order were:¹⁰
 - SCORing Atopic Dermatitis (SCORAD)
 - Eczema Area and Severity Index (EASI)
 - Investigators' Global Assessment (IGA)
 - Six Area, Six Signs Atopic Dermatitis (SASSAD)
 - Others [e.g. Patient-Orientated Eczema Measure (POEM)]

Investigator's Global Assessment (IGA)

Score	Description
0 = Clear	No inflammatory signs of atopic eczema
1 = Almost clear	Just perceptible erythema, and just perceptible papulation/infiltration
2 = Mild disease	Mild erythema, and mild papulation/infiltration
3 = Moderate disease	Moderate erythema, and moderate papulation/infiltration
4 = Severe disease	Severe erythema, and severe papulation/infiltration
5 = Very severe disease	Severe erythema, and severe papulation/infiltration with oozing/crusting

- Was the skin red?

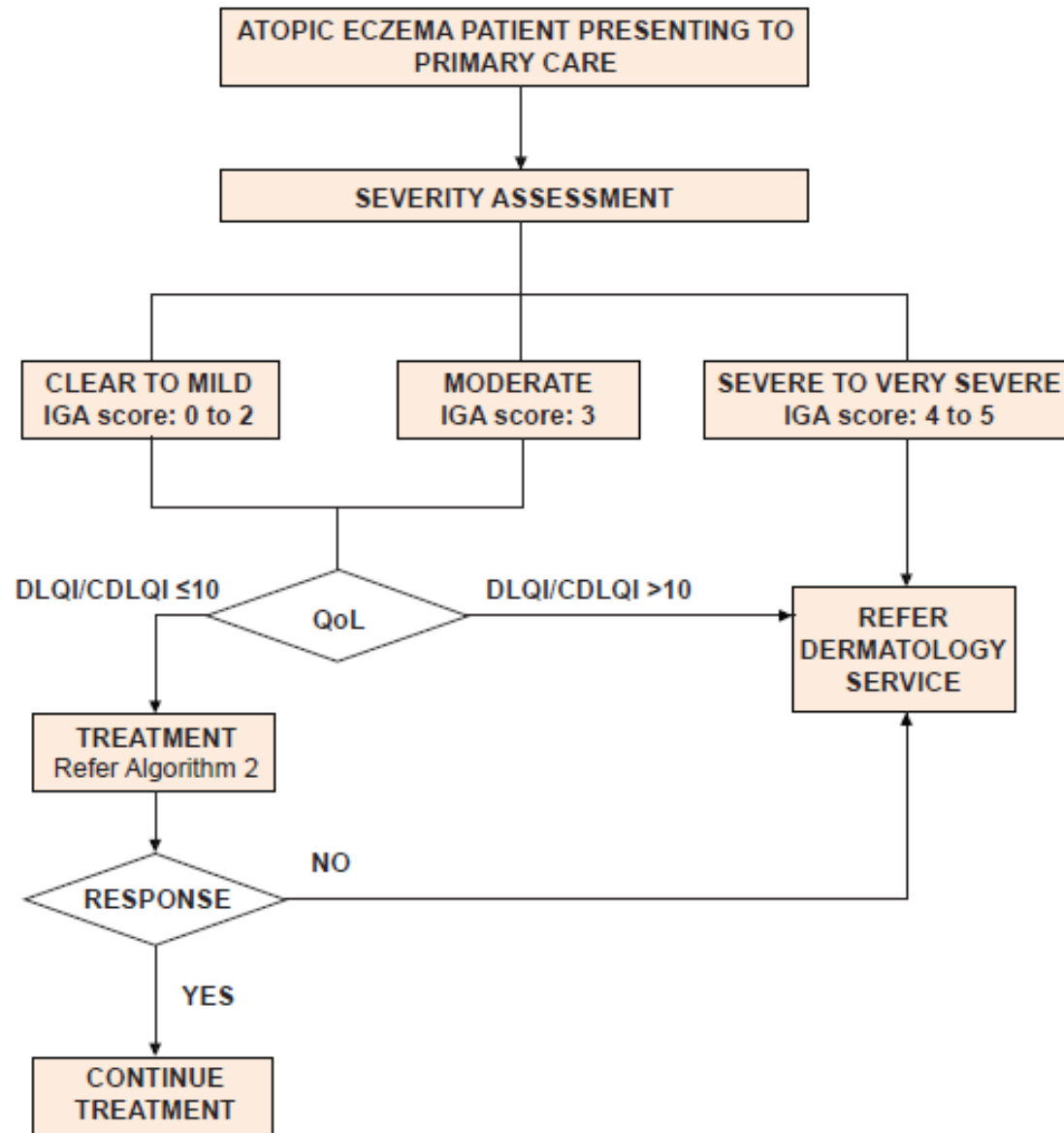
REDNESS	Absence 0	Slightly:1 	Moderately:2 	Severe:3 
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Tick the corresponding box

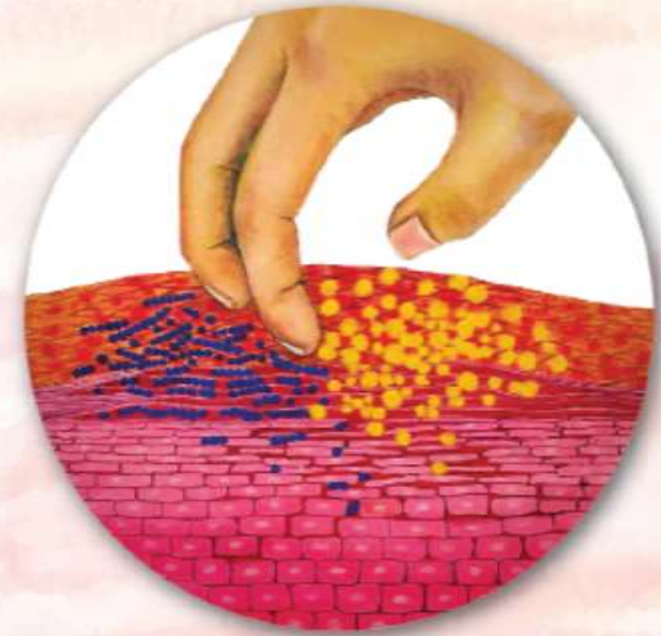
Quality Of Life Severity Assessment

- Quality of Life (QoL) assessment is important in the management of AE.
- The most commonly validated tools used are:
 - Dermatology Life Quality Index (DLQI)
 - Children's Dermatology Life Quality Index (CDLQI)
 - Infant's Dermatology Quality of Life Index (IDQOL)
 - Dermatitis Family Impact (DFI)

ALGORITHM 1. MANAGEMENT OF ATOPIC ECZEMA IN PRIMARY CARE



MANAGEMENT OF ATOPIC ECZEMA



Gambar 1. Algoritma tatalaksana DA berdasarkan derajat keparahan(12)

Basic Management for All patients at All times (add Maintenance Management for severe cases)

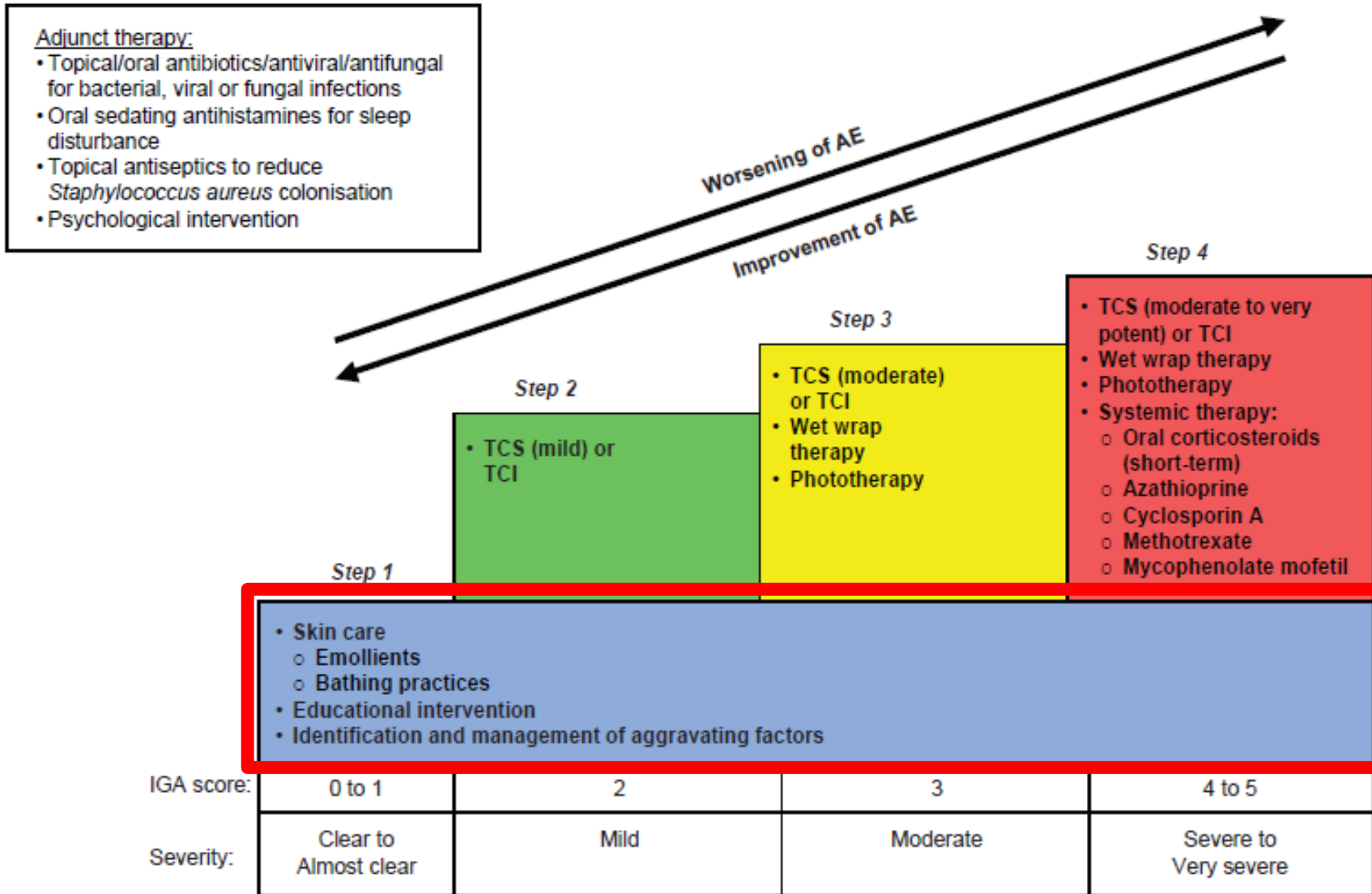
Basic Management

- 1. Skin Care**
 - a. Moisturizer^a (choice dependent on patient preference) liberal and frequent
 - b. Warm baths or showers using non-soap cleansers or mild soaps generally once daily followed by application of moisturizer^a (even to "uninvolved" skin)
- 2. Antiseptic Measures**

Dilute bleach baths^b (or equivalent) twice weekly or more (daily for more severely affected children), especially for patients with recurrent skin infections
- 3. Trigger Avoidance**

Avoid common irritants (eg, soaps, wool), temperature extremes, and proven allergens

ALGORITHM 2. TREATMENT OF ATOPIC ECZEMA



IGA: Investigators' Global Assessment; TCS: Topical corticosteroids; TCI: Topical calcineurin inhibitors

EMOLLIENT / MOISTURIZER

- Emollient therapy is the mainstay of management in AE.
- Emollients/moisturisers improve the epidermal barrier function and dryness leading to reduction in pruritus.
- Emollients application decreases the usage of topical corticosteroids.

EMOLLIENTS

- A Cochrane systematic review on 77 RCTs of moderate quality showed that emollients were better than no emollient:³⁶
 - improved SCORAD (MD= -2.42, 95% CI -4.55 to -0.28)
 - reduced risk of flare (RR=0.40, 95% CI 0.23 to 0.70)
 - reduced rate of flare (HR=3.74, 95% CI 1.86 to 7.50)
 - reduced amount of corticosteroids used at 6 - 8 weeks (MD=-9.30, 95% CI -15.33 to -3.27)
- There was no reliable evidence to show that one emollient is more effective than another.

BATHING PRACTICES

- Longer duration of bathing (>10 minutes) may be associated with risk of greater AE severity (p=0.0562).⁷²
- However, frequency of bathing is not associated with the severity.⁷³

72. Koutroulis I, et al. Clin Pediatr (Phila). 2016; 55(2):176-181

73. Koutroulis I, et al. Clin Pediatr (Phila). 2014; 53(7):677-681

BATHING PRACTICES

- There is no evidence on clinical benefit of emollient bath additives in AE.
- There is no retrievable evidence with regards to appropriate water temperature. However, the CPG development group advises against the use of extreme temperatures (too hot or too cold) during bathing to avoid worsening of AE.




PATIENT EDUCATION

Is an important part of management

Must be patient-centered


To empower patients

Patient Empowerment

NAME:	<p>GREEN = GO : Use preventive measures YELLOW = CAUTION: Use lower strength medications RED = FLARE : Use higher strength medications and consult your doctor</p>
<p>GREEN</p> 	<p style="text-align: center;">ECZEMA UNDER CONTROL</p> <p>REGULAR DAILY SKIN CARE</p> <ol style="list-style-type: none"> 1. Bath twice a day with gentle cleanser less than 10 minutes. 2. Apply moisturiser to all body parts immediately after bath. 3. Apply moisturiser to all body parts minimum thrice a day. 4. Bath and moisturise your skin before bed. 5. Wear suitable cloth/pyjamas, preferably cotton, to bed.
<p>YELLOW</p> 	<p style="text-align: center;">ECZEMA WORSENING</p> <p>SKIN CARE DURING WORSENING</p> <ol style="list-style-type: none"> 1. Continue regular skin care from GREEN phase. 2. Apply anti-inflammatory creams till eczema clears. <ol style="list-style-type: none"> 2a. Face: Apply hydrocortisone 1% twice a day for 5 - 7 days, then once a day for 5 - 7 days till eczema clears. 2b. Body: Apply betamethasone (1:4) twice a day for 5 - 7 days, then once a day for 5 - 7 days till eczema clears. 3. Take antihistamine (anti-itch), prescribed by doctor, half an hour before bed. 4. If eczema gets better, revert back to GREEN phase. 5. If eczema not responding within 3 days or eczema and itch worsens, move to RED phase.
<p>RED</p> 	<p style="text-align: center;">UNCONTROLLED ECZEMA</p> <p>SKIN CARE DURING UNCONTROLLED ECZEMA</p> <ol style="list-style-type: none"> 1. Continue regular skin care form GREEN phase. 2. Bath daily with antiseptic wash for 5 - 7 days. 3. Apply anti-inflammatory creams till eczema clears. <ol style="list-style-type: none"> 3a. Face: Apply betamethasone (1:8) twice a day for 5 - 7 days, then once a day for 5 - 7 days till eczema clears. 3b. Body: Apply betamethasone (1:2) twice a day for 5 - 7 days, then once a day for 5 - 7 days till eczema clears. 4. Take antihistamine (anti-itch), prescribed by doctor, half an hour before bed. 5. If eczema gets better revert back to YELLOW phase, then subsequently to GREEN phase. 6. If eczema not responding within 3 days or eczema and itch worsens, consult your doctor.


Written Eczema Action Plan (WAP)

- Daily skin care

	ECZEMA UNDER CONTROL
<p>GREEN</p> 	<p>REGULAR DAILY SKIN CARE</p> <ol style="list-style-type: none">1. Bath twice a day with gentle cleanser less than 10 minutes.2. Apply moisturiser to all body parts immediately after bath.3. Apply moisturiser to all body parts minimum thrice a day.4. Bath and moisturise your skin before bed.5. Wear suitable cloth/pyjamas, preferably cotton, to bed.


Written Eczema Action Plan (WAP)⁻²

- Eczema worsening

	ECZEMA WORSENING
<p>YELLOW</p> 	<p>SKIN CARE DURING WORSENING</p> <ol style="list-style-type: none">1. Continue regular skin care from GREEN phase.2. Apply anti-inflammatory creams till eczema clears.<ol style="list-style-type: none">2a. Face: Apply hydrocortisone 1% twice a day for 5 - 7 days, then once a day for 5 - 7 days till eczema clears.2b. Body: Apply betamethasone (1:4) twice a day for 5 - 7 days, then once a day for 5 - 7 days till eczema clears.3. Take antihistamine (anti-itch), prescribed by doctor, half an hour before bed.4. If eczema gets better, revert back to GREEN phase.5. If eczema not responding within 3 days or eczema and itch worsens, move to RED phase.

Written Eczema Action Plan (WAP)-2

- Eczema uncontrolled

UNCONTROLLED ECZEMA	
<p>RED</p> 	<p>SKIN CARE DURING UNCONTROLLED ECZEMA</p> <ol style="list-style-type: none">1. Continue regular skin care form GREEN phase.2. Bath daily with antiseptic wash for 5 - 7 days.3. Apply anti-inflammatory creams till eczema clears.<ol style="list-style-type: none">3a. Face: Apply betamethasone (1:8) twice a day for 5 - 7 days, then once a day for 5 - 7 days till eczema clears.3b. Body: Apply betamethasone (1:2) twice a day for 5 - 7 days, then once a day for 5 - 7 days till eczema clears.4. Take antihistamine (anti-itch), prescribed by doctor, half an hour before bed.5. If eczema gets better revert back to YELLOW phase, then subsequently to GREEN phase.6. If eczema not responding within 3 days or eczema and itch worsens, consult your doctor.

CRITERIA FOR REFERRAL

1) Urgent referral (within 24 hours)

- AE/AD/ DA with clinical suspicion of eczema herpeticum (eczema with widespread herpes simplex infection)
- AE with severe skin bacterial infection that requires intravenous antibiotics
- AE with acute erythroderma where the eczema is affecting more than 80% body surface area

CRITERIA FOR REFERRAL

2) Non-urgent referral

- Diagnostic uncertainty
- Severe or uncontrolled eczema:
 - requirement of potent and very potent TCS
 - frequent infections
 - poor sleep or excessive scratching
 - treatment failure with appropriate topical therapy regimen
- Parental concern
- Need for treatment demonstration/education
- Involvement of sites that are difficult to treat
- Psychological disturbance on the patient or family

PSORIASIS

BAHASA YUNANI ; “psora” berarti gatal

penyakit sistemik berdasarkan patogenesis autoimunologik dan genetik yang bermanifestasi di kulit, sendi, serta terkait sindrom metabolik

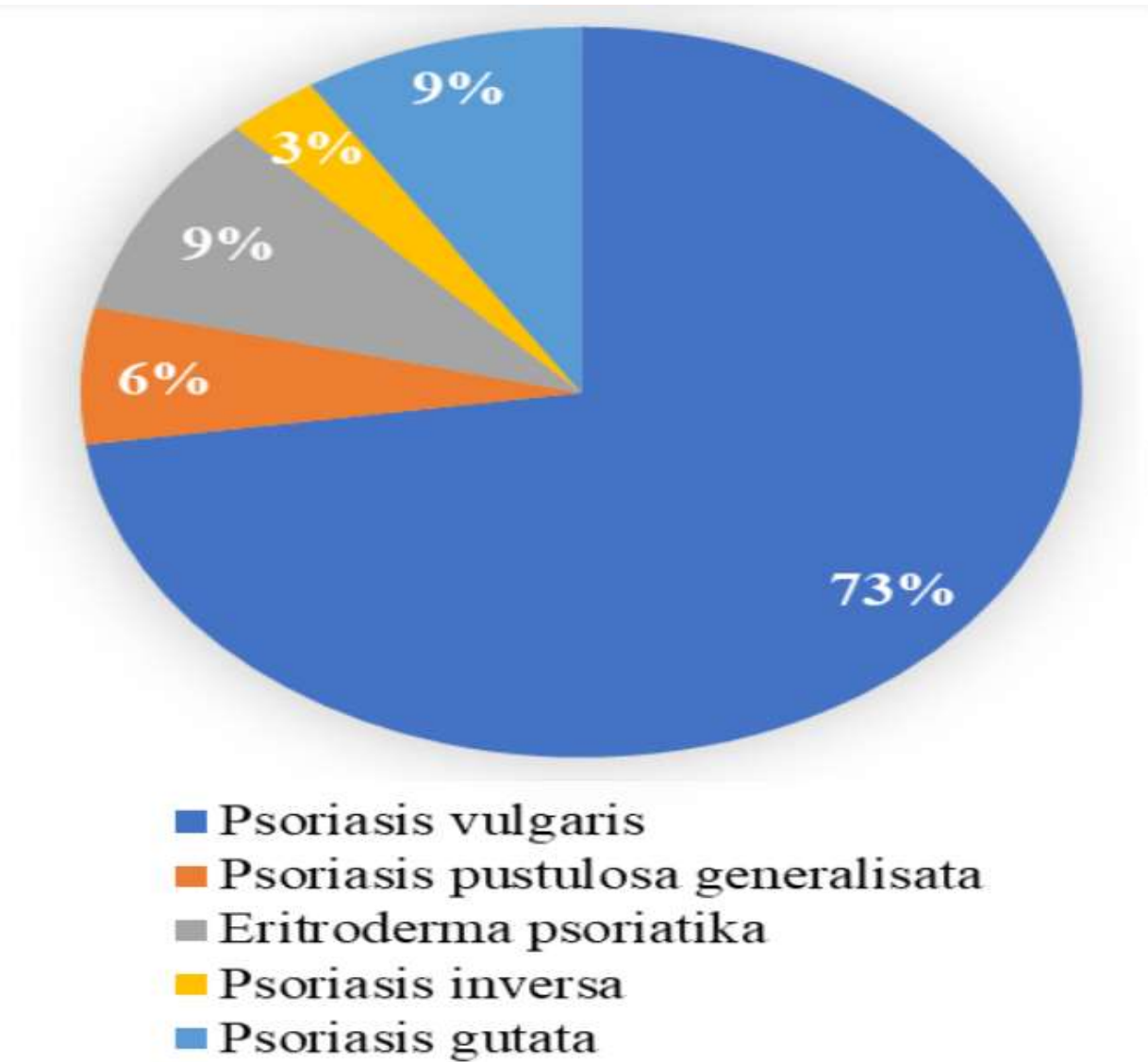
Epidemiology Of Psoriasis

- Psoriasis occurs worldwide
 - 1 - 3% of world population
- Its prevalence varies greatly among different countries and ranges from 0.2% in China to 4.8% in Norway
- There is no population-based prevalence study on psoriasis in Malaysia
 - accounts for 2-6% of yearly dermatology new clinic attendees in Malaysia



- Gudjonsson JE et.al, Clin Dermatol.2007;25:535-546.
- Tsai TF et.al J Dermatol Sci.2011 63(1):40-46.
- Choon SE et.al International J Dermatol.2013
- Siow KY et al. MJM.2004 59(3):330 - 334.

KLASIFIKASI



Gambar 1. Klasifikasi psoriasis.

PSORIASIS VULGARIS

- In Malaysia, 8664 patients in our National psoriasis registry till June 2013
 - 85% with psoriasis vulgaris
- Physically and mentally disabling



Psoriasis vulgaris

A highly visible disease



Psoriasis Vulgaris

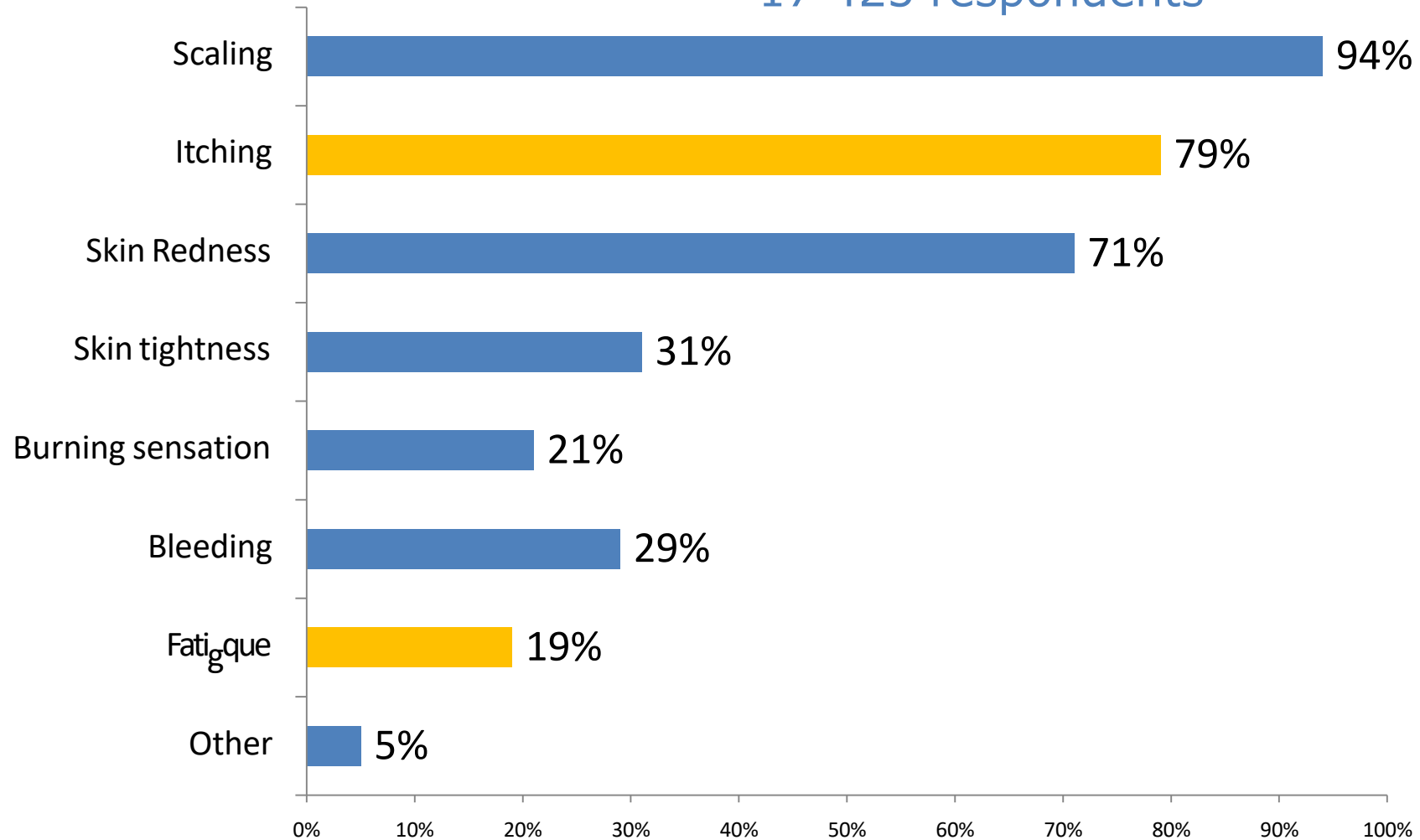


- Physical discomfort
 - Pruritus
 - Scaling
 - Tightness
 - Pain
 - Bleeding



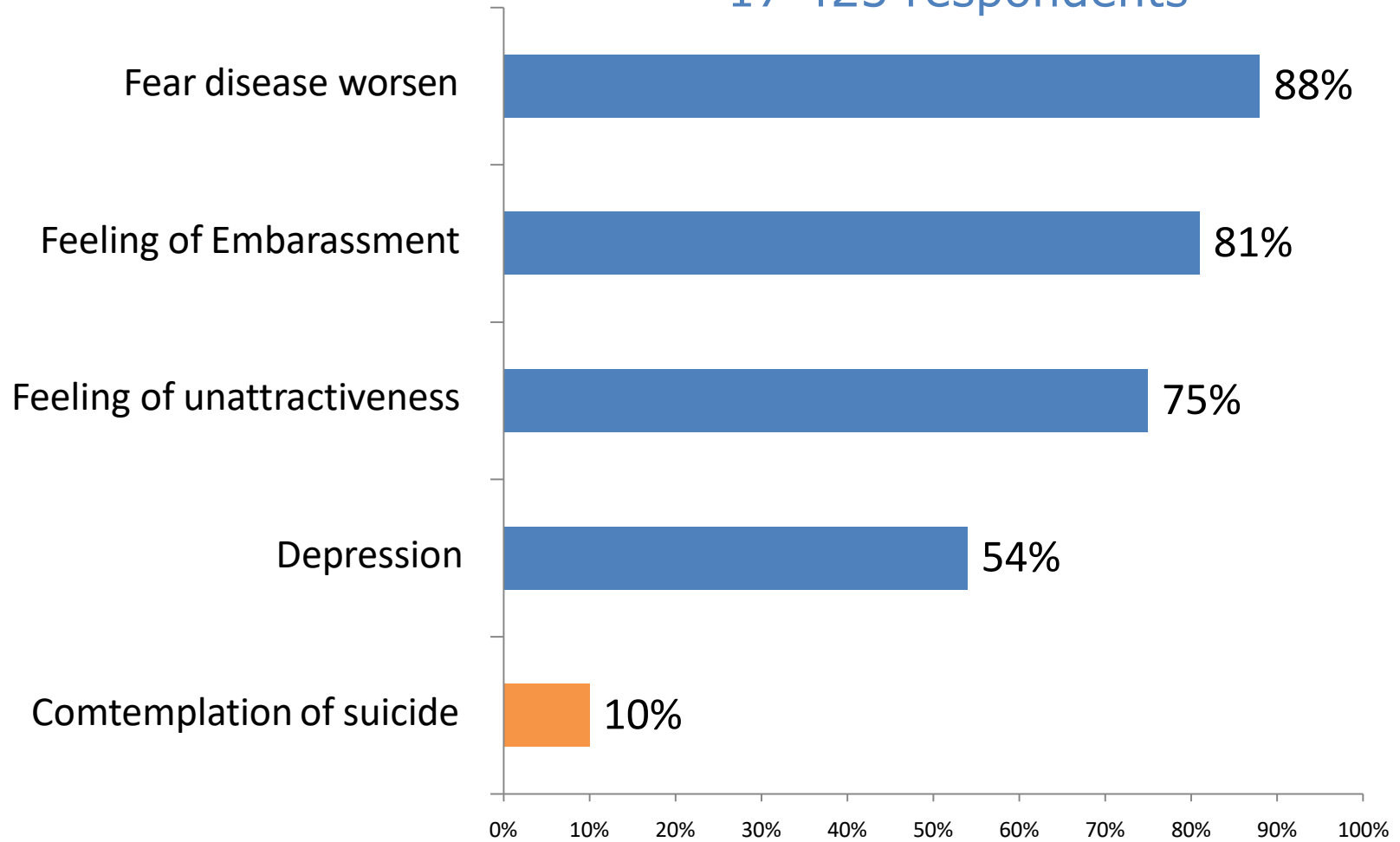
Psoriasis symptoms

17 425 respondents



Emotional impact of Psoriasis

17 425 respondents





- Psoriasis causes as much disability as other major medical diseases such as cancer, heart disease, diabetes, hypertension, arthritis and depression. Weiss Sc, et al. 2002, level III; Rapp SR, et al. 1999, level III

Psoriatic Arthritis

- Affects 6% - 42%
- Skin disease precedes arthritis by about 10 years in up to 85%
- 50% deformed within 2 years
- Early recognition and prompt treatment of arthritis prevent deformity



Nail Changes in Psoriasis

- 25% to 50%
- Pitting
- Onycholysis
- Subungual hyperkeratosis
- Discolouration
- Total dystrophy



Psoriasis : chronic systemic inflammatory disease

- Increased risk of cardiovascular morbidity and mortality
- Metabolic syndrome
 - Obesity, diabetes, dyslipidemia, hypertension
- Cardiovascular diseases
 - Myocardial infarct
 - Stroke
- Lymphoma
 - Hodgkin's lymphoma and CTCL
- Non-melanoma skin cancer
- Psychiatric/psychologic disorders
- Increased all-cause mortality



Psoriasis and Life Expectancy

- Patients with **severe** psoriasis
 - 3 fold increased risk of developing MI
 - 3-4 year decrease in life expectancy, similar to severe hypertension
 - **Men 3.5 yrs**
 - **Women 4.4 yrs**

Mehta NN, et al. 2011, level II-2; Mehta NN, et al. 2010;
level II 2; Gelfand JM, et al. 2006, level II-2



Shorter lifespan in severe psoriasis

- Risk of myocardial infarct and associated mortality highest in young patients with severe psoriasis



- Tujuan terapi psoriasis adalah tidak ada lesi, sehingga pemberian terapi dapat dimodifikasi secara perorangan.
- Selain identifikasi tipe, derajat keparahan psoriasis perlu ditentukan guna memilih tata laksana yang sesuai.
- Derajat keparahan psoriasis ditentukan dengan skor body surface area (BSA) atau psoriasis area and severity index (PASI).

- Berdasarkan Panduan Praktik Klinis (PPK) RSCM dan Perhimpunan Dokter Spesialis Kulit dan Kelamin Indonesia (PERDOSKI),
- Klasifikasi psoriasis berdasarkan skor BSA/PASI adalah sebagai berikut;
 - < 3% psoriasis ringan,
 - 3-10% psoriasis sedang,
 - >10% psoriasis berat.

- Klasifikasi ini sedikit berbeda dengan klasifikasi Fitzpatrick yaitu;

<10 % psoriasis ringan

10-30% psoriasis sedang

30% psoriasis berat.

% Body surface area involvement (BSA)

- Measures extent of skin lesions
 - % body surface involvement
 - “rule of 9” or
 - taking patient’s one palm size (flat hand with thumb and fingers) as 1%
- Familiar to dermatologists
- Easily taught, easily learnt
- Simple to use



Psoriasis Area and Severity Index (PASI)

- First published in 1978 for quantifying skin disease in psoriasis
- Four regions
 - head and neck (10%)
 - upper limbs (20%)
 - trunk (include axillae and groins) (30%)
 - lower limbs (include buttocks) (40%)
- Severity of skin lesions (erythema, scaling and induration) and extent of involvement within each region
- Score range from 0 - 72
- PASI 75 = 75% reduction in PASI score
 - Used to measure efficacy in clinical trials



Pemilihan terapi lini pertama untuk psoriasis ringan adalah pengobatan topikal misalnya emolien, kortikosteroid, keratolitik, retinoid, analog vitamin D, atau tar.

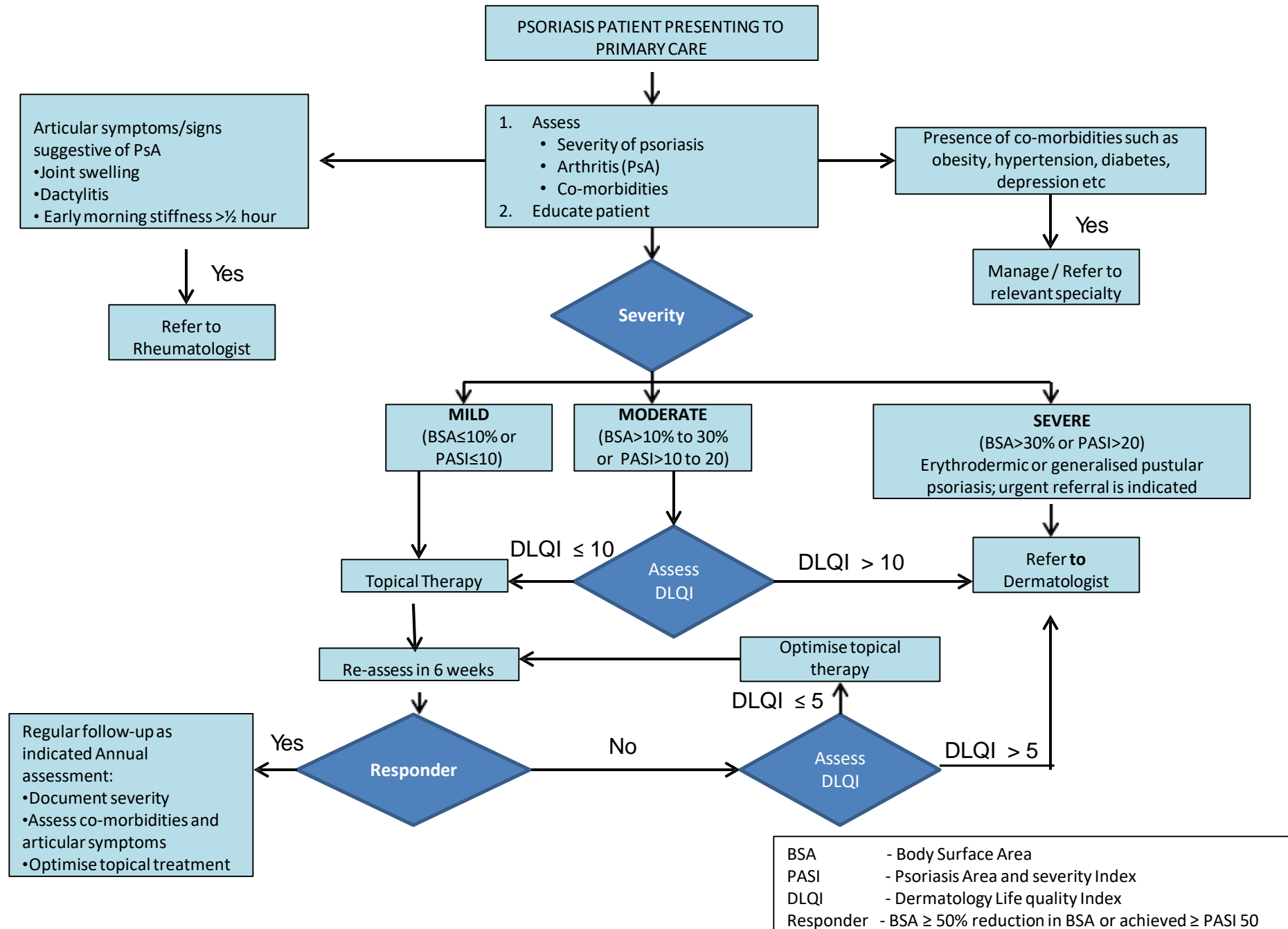
Bila tidak memberikan respons yang baik, dapat dilakukan fototerapi.

Untuk psoriasis sedang, terapi lini pertama yang disarankan adalah fototerapi dengan ultraviolet B (UVB) broadband (BB) atau Ultraviolet B (UVB) narrowband (NB).

Sebagai lini kedua, dapat diberikan kombinasi psoralen dan ultraviolet A (PUVA). Apabila tidak memberikan respons, dapat diberikan terapi sistemik.

Pada psoriasis derajat berat, diberikan terapi sistemik, yaitu metotreksat, siklosporin, asitretin, serta dapat dipikirkan pemberian obat biologik. Pada kondisi

ALGORITHM 1: MANAGEMENT OF PSORIASIS VULGARIS IN PRIMARY CARE



Psoriasis?

1



Tinea corporis



2



Subacute
cutaneous lupus erythematosus



Psoriasis?

3



Psoriasis

4



Seborrheic dermatitis



References

- Tatalaksana Dermatitis Atopik Kanak- Kanak ; Jurnal Medika Utama, Jan 2022
- Studi Retrospektif: Penatalaksanaan Dermatitis Atopik (Retrospective Study: Management of Atopic Dermatitis) Nanny Herwanto, Marsudi Hutomo
Departemen/Staf Medik Fungsional Ilmu Kesehatan Kulit dan Kelamin Fakultas Kedokteran Universitas Airlangga/Rumah Sakit Umum Daerah Dr. Soetomo Surabaya:BIKKK – Berkala Ilmu Kesehatan Kulit dan Kelamin – Periodical of Dermatology and Venereology Vol. 28 / No. 1 / April 2016
- KEPUTUSAN MENTERI KESEHATAN REPUBLIK INDONESIA NOMOR HK.01.07/MENKES/213/2019 TENTANG PEDOMAN NASIONAL PELAYANAN KEDOKTERAN TATA LAKSANA DERMATITIS SEBOROIK
- CPG Atopic Dermatitis Malaysia: 2017
- CPG Psoriasis Vulgaris Malaysia : 2013

SEKIAN TERIMA KASIH