MANAGEMENT OF PSORIASIS IN LOW INCOME COUNTRIES

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An overview of Psoriasis management, situation analysis in the Middle East & Africa

May 9th, 2014

Goeckerman

"The comparative frequency with which psoriasis occurs demands that not only the specialist but the general practitioner should be familiar with effective therapeutic measures directed against it."



Psoriasis isn't contagious, but awareness is.





Key Points

Overview of Psoriasis

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Psoriasis in the Middle East & Africa (Egypt)

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• Management of psoriasis with limited resources

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• Challenges and gaps

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Suggestion of a national strategy

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Overview of Psoriasis

Psoriasis Patients

New concept

Burden of psoriasis

Psoriasis causes

Variants of psoriasis

Clinical types Of psoriasis

Psoriasis march

QOL

Psoriasis Patient



1-3% of the world population

Multifactorial

Systemic

Chronic

Disabling

Relapsing

Hyperproliferative

Comorbidities

Disabling Arthritis

Total body skin involvement



Finger nail pit

Polygenic

Psoriasis

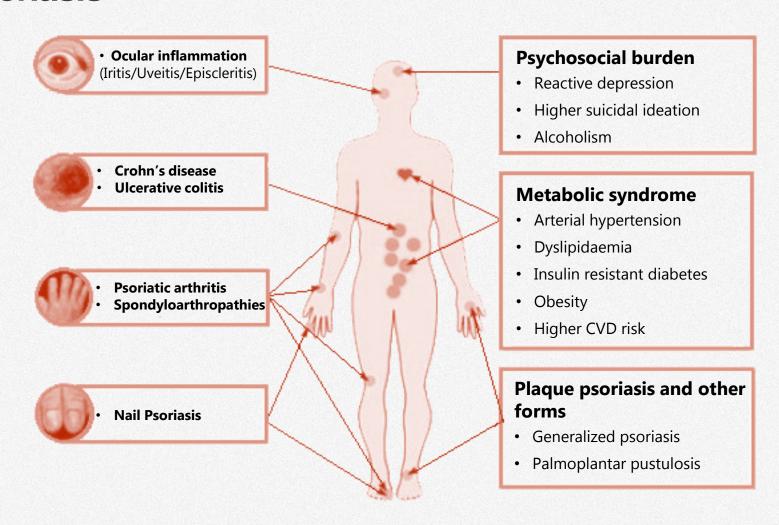
Cutaneous disease **Traditional** No comorbidities Concept (Ps Arthritis) **Psoriasis Systemic Disease New Concept Comorbidities**

Cutaneous Polymorphism

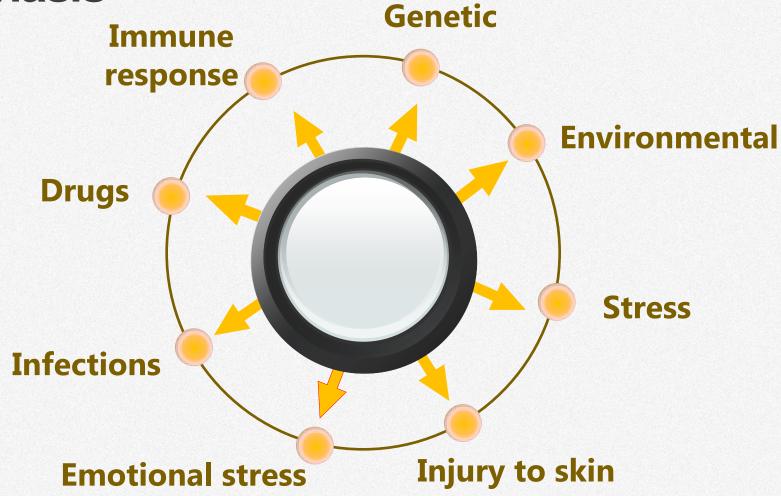


One or several Diseases?

The burden of Psoriasis



What causes Psoriasis



Additional factors

Obesity

Obesity increases the incidence and the severity of psoriasis

Psoriasis patients eat more as a coping mechanism

Alcohol Consumption

Alcohol consumption increases the incidence and the severity of psoriasis

Psoriasis patients drink more as a coping mechanism

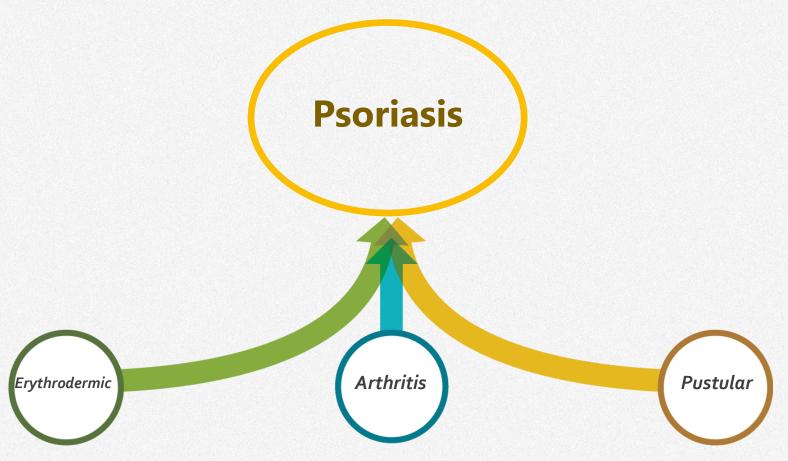


Smoking

Smoking increases the incedince of psoriais

Psoriasis patients smoke more as a coping mechanism

Variants of Psoriasis



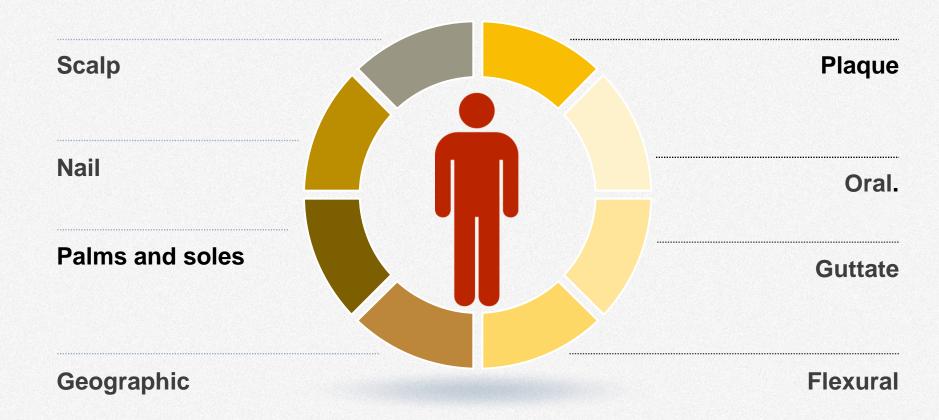
Psoriasis in children





Incidence of psoriasis in children is increasing, estimated by 20% in Egypt.

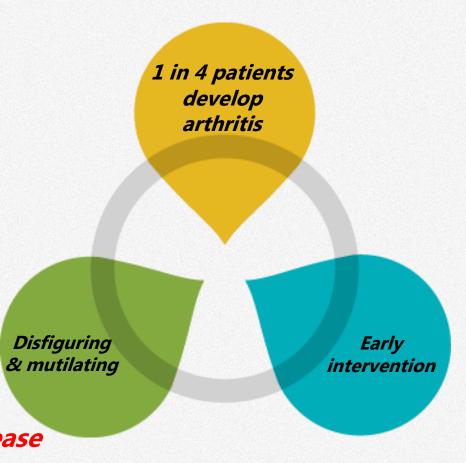
Clinical types Of psoriasis



Arthritis



Inflammatory sero-ve arthritis associated with psoriasis.
Enthesitis, dactylitis & axial disease



How the march of psoriasis unfolds from gene to clinic

Genetic factors

Environment al factors

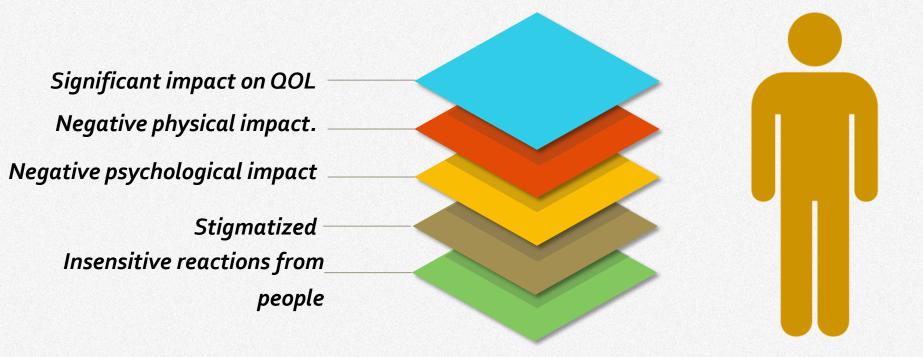
Expression

Comorbidity

- Genetic factors drive disease specific process
- Triggered by environmental factors involving innate &adaptive immunity
- Leading to disease expression
- Comorbidity results from chronic inflammation

Griffiths &Barker (2007)lancet

Impact of Psoriasis on QOL



QOL



Withdrawal, anxiety and depression

Very low QOL, worse than patients with stroke, COPD, heart disease & diabetes

Survey by the US National Psoriasis
Foundation
Psoriasis has a moderate to large
Impact on QOL in 75% of Psoriasis
patients

QOL

Factors
affecting QOL

Cender

Location

Underestimated by disease severity score.

Weak association between PASI score and impaired QOL

Lesions located on visible body parts

QOL

Psoriasis doesn't have to be severe to impair the quality of life!

Scalp psoriasis is visible, persistent & inconvenient so it is the most difficult aspect of the disease, with marked negative Impact on the QOL.



Cumulative Life Course Impairment "CLCI"

Cumulative impairment acquired by the psoriasis patient over a life time.

Reflects chronic nature of the disease.

Repercussions including stigmatization physical &psychological comorbidities

Factors playing a moderating role making patient less vulnerable.

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ACTAS Dermo-Sifiliográficas

Full English text available at www.actasdermo.org



NOVELTIES IN DERMATOLOGY

Cumulative Life Course Impairment: The Imprint of Psoriasis on the Patient's Life*

S. Ros, a, L. Puig, J.M. Carrascosa

Received 5 February 2013; accepted 23 February 2013 Available online 26 February 2014

KEYWORDS

Psoriasis; Stigmatization; Depression; Anxiety; Coping behavior: Abstract We now realize that moderate to severe psoriasis takes a toll on the patient's overall health beyond the effects on the skin itself, and so we use quality of life (QOL) measures to assess how the individual perceives both the impact of disease and the response to treatment. However, available instruments give us a cross-sectional assessment of QOL at a specific moment, and we lack longitudinal studies of how a disease affects each and every aspect of a patient's life over time-including physical and psychological wellbeing, social and emotional

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Cumulative Life Course Impairment "CLCI"

External Factors

Supportive environment

Coping strategies

Personality Style

Cumulative Life Course Impairment "CLCI"

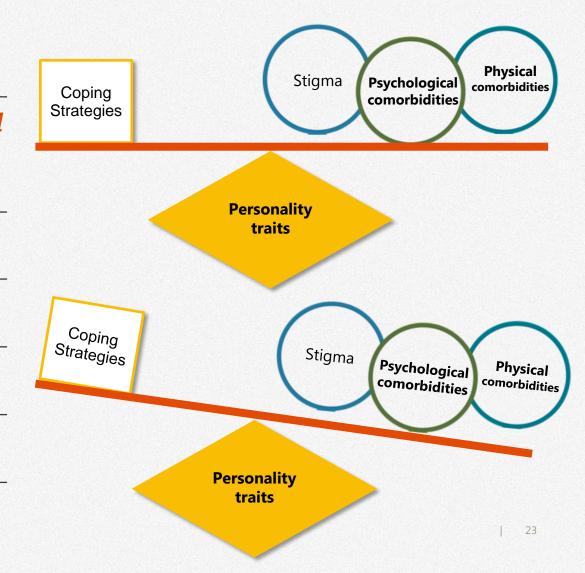
Patients reported psoriasis had an important influence on major life decisions

Choice of work & career

Education

Marriage and having children

Early retirement



Comorbidities

↑ risk of cardiovascular disease (Hypertension & Heart Failure), metabolic syndrome, diabetes & obesity compared with non-psoriatic skin diseases

Psoriasis is an independent risk factor for coronary artery calcification, MI & stroke.

The risk associated with psoriasis is greatest in young patients with severe disease and increases with age.

Actas Dermosifiliogr. 2012;103(Supl 1):1-64



ACTASDermo-Sifiliográficas

Full English text available at www.elsevier.es/ad



Integrated Approach to Comorbidity in Patients With Psoriasis

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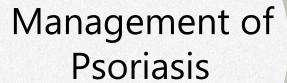
^hDermatology Department, Hospital General, Valencia, Spain

KEYWORDS

Psoriasis; Comorbid disease; Psoriatic arthritis; Abstract The relationship between psoriasis and associated diseases has drawn particular interest in recent years. To provide appropriate management of psoriasis from an early stage, it is necessary to include prompt diagnosis of concomitant disease and to prevent and treat any comorbidity found. Such an integrated approach also serves to ensure that the draw used to treat associated diseases do not interfere with the management of

Management of Psoriasis





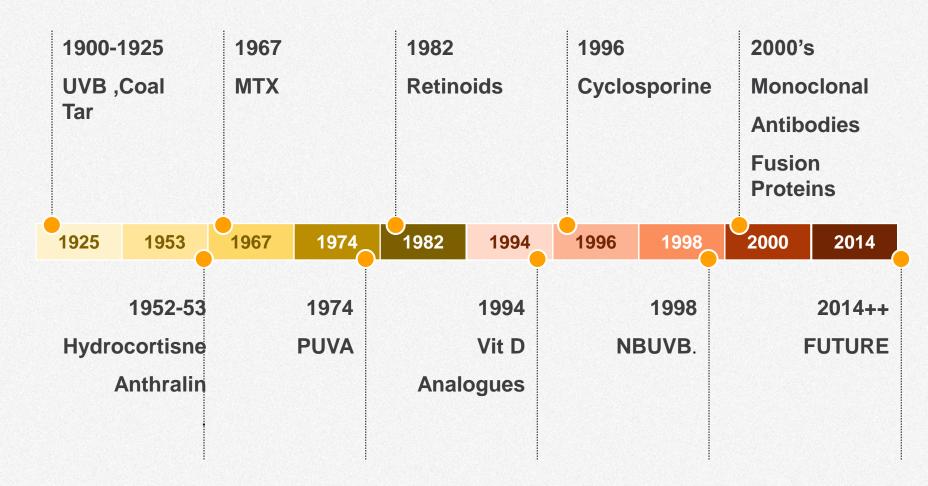








Breakthroughs in Psoriasis therapy



Treatment of Psoriasis



Topical	treatment

Tazarotene

Systemic treatment

Steroids.	Methotrexate.
Emollients.	Cyclosporin.
Anthralin.	Acitretin.
Tar.	PUVA.
Vit D analogues.	NBUVB.
Salicylic acid.	Biologics
Retinoids	

Long term management

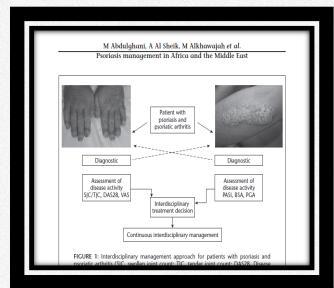
Individualization of therapy

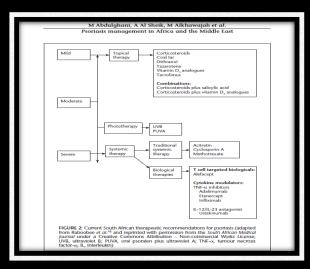
Patient's
Perception of
severity

Reconciling extent of disease

Potential side effects of specific treatments

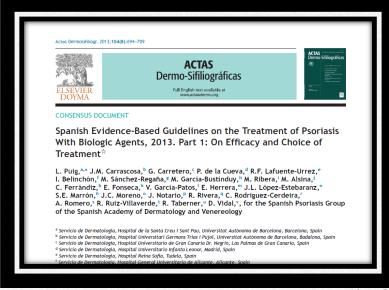
Guidelines







German



Psoriasis in the Middle East & Africa.

Limited literature

Egyptian Experience

The Egyptian study

Studies in the Middle East on QOL

Different Cases

Limited literature

Literature regarding psoriasis & its management in the geographically large, culturally diverse & heterogeneous regions of the Middle East & Africa is limited, compared with the large volume of data from the western World.

The Journal of International Medical Research

2011; 39: 1573 - 1588

Management of Psoriasis in Africa and the Middle East: a Review of Current Opinion, Practice and Opportunities for Improvement

M Abdulghani¹, A Al Sheik², M Alkhawajah³, A Ammoury⁴, F Behrens⁵, H Benchikhi⁶, I Benkaidali⁷, N Doss⁸, A El Gendy⁹, I Mokhtar¹⁰, D Odendaal¹¹, N Raboobee¹², D Thaçi¹³, R Weiss¹⁴ and D Whitaker¹⁵

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 ¹⁴Rosebank Clinic, Rosebank, Johannesburg, South Africa;
 ¹⁵Private Practice, Kenilworth, Cape Town,

Studies in the Middle East & Africa on Incidence of psoriasis

2 small single centre studies in Saudi Arabia 2004,2005

1.5% in South Western SA.

3.4% in Eastern SA.

Larger study across 5 hospitals in Johannesburg SA .

9.6% in Indian patients.

Studies in the Middle East on QOL

Kuwait, Iran & Tunisia.

Same findings as Western countries .

Psoriasis affected physical activities and social relationships in ≥ 50% & sexual activity in 33% of 330 Kuwaiti outpatients as measured by the Dermatology QOL scale.



Egyptian Experience



Psoriasis Clinic..



Department of Dermatology Ain Shams University.



International Psoriasis Network.



Registry.



Protocol for treatment.

Objectives

Classification and clinical characterisation of psoriasis in Egyptian patients (phenotypes)

Multicentre studies

Protocol for treatment

Difficult cases (HCV)

Griffiths et al.(2007) BJD, Mallbris et al.(2005) JID, Stuart el al.(2002) Arch. Derm. Res.



Egypt Fact:
Population 85 million
40% under poverty line

Psoriasis Questionnaire

Patient's name: -Telephone no.: File number:-

Date of Consultation: -New Case: Yes No

Age (years): -Sex: M F

Residence: -Marital status: Single Married Divorced Widow

Children: no. -Age of youngest

Height of the patient in cm: -Weight of the patient in Kg:

Waist Circumference in cm: -Phototype (according to Fitzpatrick classification)

Age of onset of psoriasis: -Family history of psoriasis: yes no does not know

Personal history

Diabetes mellitus -gout -hypertension -hyperlipidemia

-Atopy -IBD -renal insufficiency -gastro-duodenal ulcer

-vitiligo -smoking: -skin cancer -viral hepatitis

Location of psoriasis at onset:

-Upper extremities -Scalp -Lower extremities -Genitalia

-Trunk -Palms -Face -Soles

-Folds -Nails

Psoriasis Questionnaire

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Evolution:
-Continuous
                 -Flare-ups and complete remissions
                                                               -Flare-ups and incomplete remissions
Extension of the lesions during the worst episode:
-Limited (<10% body surface area)
                                -moderately extensive (10-30% body surface area)
                                                                                    -Generalized (>30% body surface area)
Clinical aspect of the lesion during the worst episode:
-Erythematosquamous plaques -Erythrodermic
                                                     -Pustular
Provoking Factors:
-Stressful events
                    -Mechanical factors (Koebner phenomenon)
                                                                 -Change of season
-Infectious disease
                   -Weight increase
                                                               -Medication intake
Effect of environmental factors:
                                              -clears
                                                               -no effect
Sun ± sea: -worsens
                           -improves
Treatments received: Yes No.
If Yes: -Local treatments
                             -Systemic treatments (Methotrexate-Cyclosporine-Acitretin-PUVA)
     -Physical treatments
                            -Alternative medicine
Efficiency of treatment: yes no
Which was the most efficient:
Longest remission period:
-<1 month -1-3 months -3-6 months -6-9 months -9-12 months -≥1 year
Approximate cost of treatment per month:
Actual Situation of Psoriasis
1-Patient under treatment: Yes No.
2-Location
-Upper extremities -Lower extremities
                                          -Face - Genitalia -Palms
                                -Scalp
                                                                  -Soles
                                                                             -Nails
```

Psoriasis Questionnaire

```
Clinical Type of psoriasis at presentation: - Psoriasis vulgaris
                                                                                 -Pustular psoriasis -Erythrodermic psoriasis
                                                              -Guttate psoriasis
                                          -Scalp psoriasis
                                                              -Nail psoriasis
Symptoms:
Pruritus Yes No
If Yes: -Limited to plagues -on unaffected skin
Rheumatological manifestations: Yes No
                 -Polyarthritis
-Oligoarthritis
Involvement of distal interphalangeal joint
-Axial involvement (spondylitis and /or sacroiliitis) -Arthritis mutilans -Dactylitis
                                                                               -Enthesopathy
Clinical aspect of the actual episode:
-Nummular plaques
                       -Large plaque
                                            -Drops
                                                           -Mixed
                                                                       -Erythrodermic
                                                                                           -Pustular
-Nail: Yes No
PASI score:
```

Alteration of Quality of Life:

-no impact -minimal side effects easily coped with -alteration of everyday life -alteration of appearance and socialization -major personal and social handicap

Treatment the patient is receiving now:

-Local -Systemic -Physical - Others **Echo abnormalities**: yes no **Lab. Abnormalities**: yes no

Lipid profile -Liver function test -Renal function tests -CBC, ESR, HCV, HBV

Study population

Overall 1181 questionnaires were completed at university hospitals.

SPSS was performed on all patients except those presenting single episode of psoriasis (n=97 patients) and those with missing data or inaccurate history data (n=44 patients).

181 subjects were excluded from the typology development.

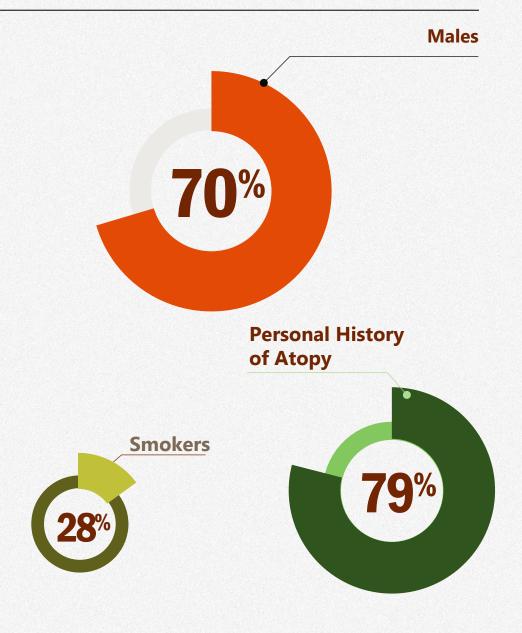
Some dermatologists reported erythroderma not only for total body area involvement but even for limited lesions. Thus erythroderma data were also excluded from the analysis

Description of personal and family history among study cases

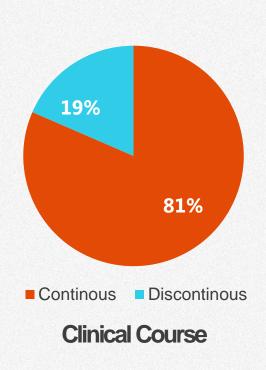
		Mean	±SD	Minimum	Maximum
Age		41.1	18.0	1.0	81.0
Gender	Male	732	70.4%		
	Female	308	29.6%		
Smoking	Yes	290	27.9%		
	No	750	72.1%		
Alcoholism	Yes	30	2.9%		
	No	1010	97.1%		
Personal antecedents of atopy	Yes	218	21.0%		
	No	822	79.0%		
Familial antecedents of psoriasis	Yes	152	14.6%		
	No	888	85.4%		
Familial antecedents of psoriasis arthritis	Yes	84	8.1%		
	No	956	91.9%		
Familial antecedents of atopy	Yes	60	5.8%		
	No	980	94.2%		

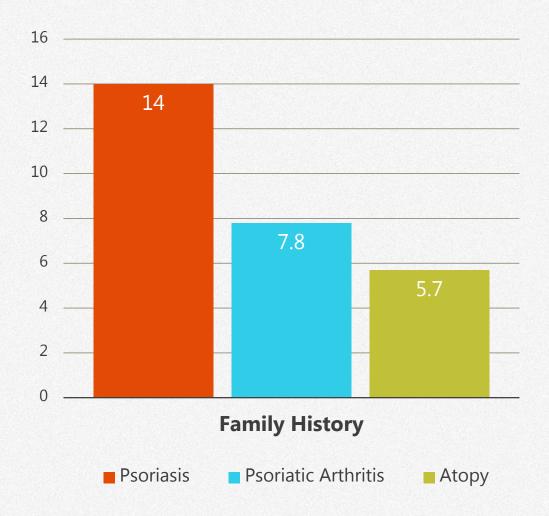
Description of personal and family history among study cases

Males represented the majority of cases (70.4%), smokers and alcoholics represented about 28% and 3% of cases respectively.



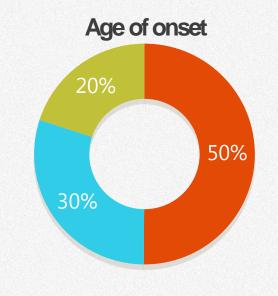
History & Disease Course

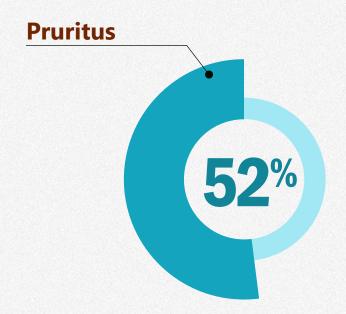


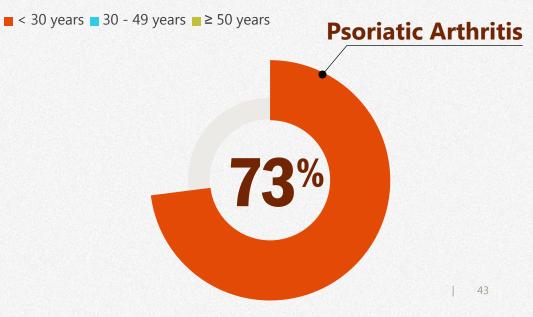


Data

The mean age among study cases was 41.1 ± 18 ranging between 1-81 years.



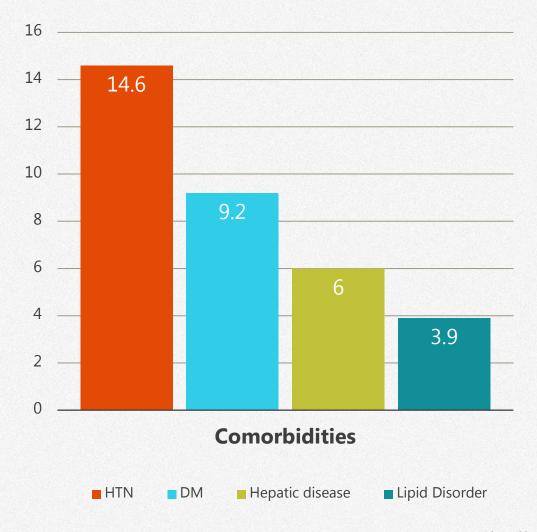




Description of medical characteristics (comorbidities) among study cases

The table showed that HTN was the commonest co morbidity among cases (14.6%) while lipid disorder was the least frequent among cases (4%)

		N	%
Lipid disorder	Yes	42	4.0%
	No	998	96.0%
High blood pressure	Yes	152	14.6%
	No	888	85.4%
Diabetes	Yes	96	9.2%
	No	944	90.8%
Hepatic disease	Yes	62	6.0%
	No	978	94.0%















































Management of psoriasis with limited resources

Where do we stand

Weekly clinic

Follow up of patients

No Governmental funding

Non governmental funding

Charities, Pharmaceutical industry, NGOs

Generic treatment

Phototherapy

Difficulty in obtaining newer drugs





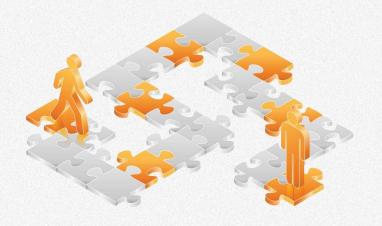




Challenges & gaps

Challenges and gaps





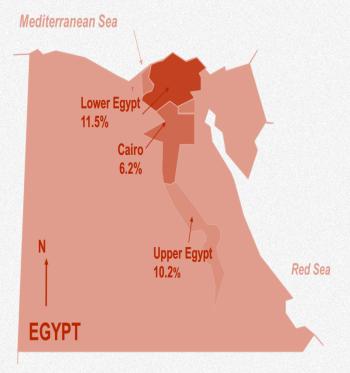
Unmet needs facing the dermatologists with limited resources.

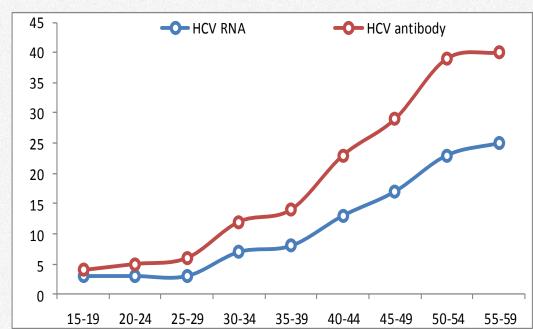
Lack of resources.

HCV.

Ministry of Health budgets.

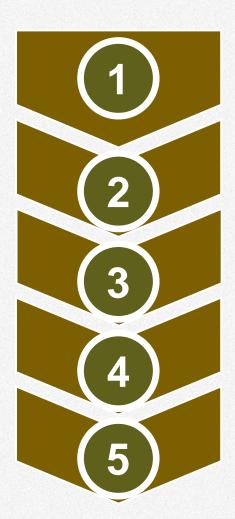
HCV in Egypt 2008





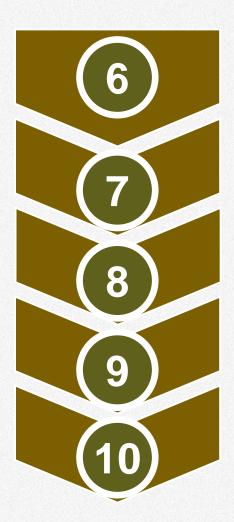
Suggestion of a national strategy

Suggestion of a national Strategy



- National Strategy including all health care sectors in Egypt.
- National registry.
- Larger epidemiological studies to know the true size & impact of the problem.
- Awareness program to all health care providers &primary health physicians.
- Specalized referral centres.

Suggestion of a national Strategy



Patients advocacy groups.

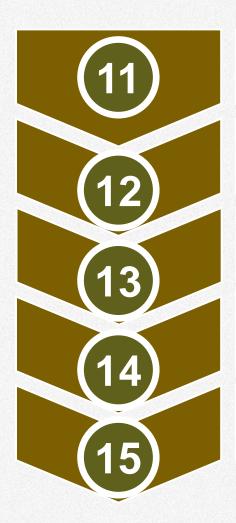
Fill the research gaps.

Management of Co-morbidities.

Research and clinical trials in special population groups.

 Guidelines &treatment protocols implementing changes to current management practice.

Suggestion of a national Strategy



Collaboration with international experts

Modelling studies for cost-effective treatment.

Media Campaigns.

 Long term research data so governments recognize psoriasis as a disabling disease needing early diagnosis &treatment.

Involve stake holders for support.

Conclusion

"Early management of psoriasis is more cost effective to avoid long term morbidity & complications."



Conclusion

"Psoriasis is at once both a common and complex disease.

Psoriasis usually does not take lives, but it does ruin them.

Thank you

contact information

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