

Asian Journal of Research in Dermatological Science

Volume 7, Issue 1, Page 10-13, 2024; Article no.AJRDES.114434

Dermatological Emergencies of a University Hospital Center of Rabat, Morocco

Amani Fliti a*, Meryem Elomari Alaoui a, Mariame Meziane a, Nadia Ismaili a, Laila Benzekri a and Karima Senouci a

^a Department of Dermatology and Venerology, University Hospital Center Ibn Sina, University of Mohamed V, Rabat, Morocco.

Authors' contributions

This work was carried out in collaboration among all authors. Authors AF and MEA did the conception, study design, data collection analysis and interpretation. Authors MM, NI, LB and KS did the manuscript revision. All authors read and approved the final version of the manuscript.

Article Information

Open Peer Review History:

This journal follows the Advanced Open Peer Review policy. Identity of the Reviewers, Editor(s) and additional Reviewers, peer review comments, different versions of the manuscript, comments of the editors, etc are available here:

https://www.sdiarticle5.com/review-history/114434

Case Study

Received: 11/01/2024 Accepted: 15/03/2024 Published: 18/03/2024

ABSTRACT

Introduction: Dermatological emergency is defined as any acute dermatological disorder that develops and worsens in less than 5 days.

Aims of Study: The aim of our study is to identify the main dermatological emergencies consultations, establish a demographic and clinical profile of the reasons for dermatological consultations, and review the various diagnostic and therapeutic difficulties encountered by interns and/or residents.

Materials and Methods: We conducted a prospective study in the dermatology department of the Ibn Sina University Hospital in Rabat between June 2022, and May2023. Excel and Statistical Package for the Social Sciences (SPSS Inc., version 15.0 for Windows) were used for data entry andanalysis.

Results: 1,321 urgent dermatology consultations were received during this period. The sex ratio was 0.89, and the average age was 45.6 years (01months-95years). The reasons for consultation

*Corresponding author: E-mail: amanifliti2015@gmail.com;

Asian J. Res. Dermatol. Sci., vol. 7, no. 1, pp. 10-13, 2024

were: infectious pathologies in 47% (Erysipelas in the lead), inflammatory pathologies in 24%, toxidermia in 7%, autoimmune bullous dermatosis in 4%, tumor pathologies in 3%, and others in 15% of cases. 79 cases (5,9%) were hospitalized as emergencies and while the others (94,1%) only needed an ambulatory care.

Conclusion: The pathologies encountered in dermatological emergencies are very diverse dominated by infectious diseases. However, the majority of patients do not require an emergency consultation.

Keywords: Dermatological emergency; emergency; skin diseases; dermatological consultations.

1. INTRODUCTION

Although dermatology is generally regarded as an ambulatory clinical practice characterized by non-acute, non-fatal conditions.

4% to 12% of all emergency room visits are due to symptoms related to dermatological disorders. (1.2).

This demand for urgent consultation is growing, and may correspond to an acute dermatosis or to a non-urgent dermatosis (in 49-82%) in order to obtain a shorter consultation time [1,2].

A grading system can help dermatologists and allied medical personnel to triage a patient accordingly. Currently no severity grading for dermatological emergencies is available [3].

The aim of our study is to identify the main dermatological emergencies consultations and establish a demographic and clinical profile of the reasons for dermatological consultations.

2. MATERIALS AND METHODS

We conducted a prospective study in the dermatology department of the Ibn Sina University Hospital in Rabat between June 2022, and June 2023. 1321 patients were included by receiving telephone calls via the dermatological emergency number during 24-hour shifts, 7 days a week, then collecting patient information, and this information was transcribed into a "dermatological emergency register".

Excel and Statistical Package for the Social Sciences (SPSS Inc., version 15.0 for Windows) were used for data entry and analysis.

Limitations of study were that pediatric patients have not been taken into consideration as they consult the pediatric department, and the dermatologist was not responsible for emergency triage some patients may be managed by interns.

3. RESULTS

1,321 urgent dermatology consultations were received during this period (4 patients/day), with more patients on Mondays (257 patients) and fewer on weekends (177 patients). 46.8% of consultations were requested in the morning vs. 37.6% in the afternoon and 15.6% in the evening. The sex ratio was 0.89, with a slight female predominance, and the average age was 45.6 years (01months-95years).

37% of patients consulted emergency departments, 43% hospital departments, 7% of patients referred from the private sector for urgent consultation, and 7% of staff consulted for urgent dermatological conditions.

The reasons for consultation were: infectious pathologies in 47% (Erysipelas in the lead), inflammatory pathologies in 24%, toxidermia in 7%, autoimmune bullous dermatosis in 4%, tumor pathologies in 3%, and others in 15% of cases Fig. 1.

Infectious pathology was dominated by bacterial infections (22%): (erysipelas in the lead 12,6%, folliculitis 1,8%, cellulitis 1,4%, impetigo 1,2%), followed by viral infections 10% (varicella zoster 5,3%, herpes zoster 2,3%), then fungal infections 9% (dermatophytes 5,5%) and the parasitic infections 6% (gale 5,7%) Fig. 2.

Inflammatory pathologies is the second diagnosis (24%) (psoriasis (3,9%), eczema(3,1%) and urticaria (2,4%).

The third reason for consultation was toxidermia (7%) (simple maculopapular exanthema in the lead) followed by autoimmune bullous dermatoses (4%) (pemphigus (2%) in the lead).

79 cases (5,9%) were hospitalized as emergencies and while the others (94,1%) only needed an ambulatory care.

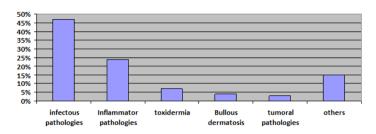


Fig. 1. Distribution of the mean reason for emergency dermatological consultation

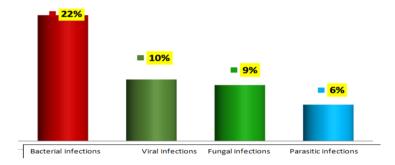


Fig. 2. Distribution of infectious diseases

4. DISCUSSION

"Dermatological emergency" is defined as any acute dermatological disorder that develops and worsens in less than 5 days. True dermatological emergencies" are: Infectious dermatosis, inflammatory dermatosis Toxidermia and Autoimmune bullous dermatosis [3,4].

Fewer than 20 studies have been published in the literature concerning urgent dermatological consultations. Our results concur with those of the literature concerning the average age of patients and the main reasons for consultations, with erysipelas in the lead [5,6].

1321 consultations were reported in our study over a period of one year (3.7consultations/day), which is in line with the Y.ELArabi-Morocco study (3.8/d) [7] and it greatly exceeds the prevalence seen in the series of N.Ogut et Al (1.1/j) [8], but remains lower compared with a Spanish study by D.Bancalari et Al (10/j) [9],and a Portugal study by M.Alpalhao (23,6/j) [10] . This finding can be explained by the health system organization of each country.

The mean age of the patients was 45,6 years which is in line with other studies ranging from 44-47 years.

Regarding, the most common reasons of consultation, The results of our study are in line with those of other studies, with infectious

pathologies in first place, followed by inflammatory pathologies, toxidermia and finally autoimmune bullous dermatoses.

The hospitalization rate in our series is 5.9%, which higher than In the other series (1.9-3.1%) but much lower than Turkish series (11.5%) [8] and Moroccan Series (7.8%) [2,11].

5. CONCLUSION

The pathologies encountered in dermatological emergencies are very diverse. However, the majority of patients do not require an emergency consultation.

This research project is an educational guide to the main dermatological emergencies in Morocco, aimed at residents and other healthcare professionals.

CONCENT AND ETHICAL APPROVAL

It is not applicable.

ACKNOWLEDGEMENTS

The authors thank all hospital staff and specialists for participation in this manuscript.

COMPETING INTERESTS

Authors have declared that no competing interests exist.

REFERENCES

- Kilic D, Yigit O, Kilic T, Buyurgan CS, Dicle Epidemiologic Characteristics Admitted **Patients** to Emergency Department with Dermatological Complaints: Α Retrospective Cross sectional Study. Arch Acad Emerg Med. 2019 Aug19;7(1):e47. PMID: 31602430; PMCID: PMC6785214.
- Yasmina El Arabi, Fouzia Hali, Hayat Dahbi Skali, Soumiya Chiheb, Dermatological emergencies: A Moroccan retrospective case series over a period of two years,PAMJ – 2022;41(348).
- Kedia PSS. 3. Anushka Ranugha, Gurumurthy Santhebachalli Chethana Garehatty Rudrappa Kanthraj, 2023, "Severity grading dermatological emergencies based comorbidities and systemic involvement: An observational study", Archives of Dermatological Research, 315:2333-2338.
- Murr D, Bocquet H, Bachot N, Bagot M, Revuz J, Roujeau JC. Intérêt d'une consultation hospitalière d'urgences dermatologiques [Medical activity in a emergency outpatient department dermatology]. Ann Dermatol Venereol. 2003 Feb;130(2 Pt 1):167-70. French. PMID: 12671577.
- Pelloni L, Cazzaniga S, Naldi L, Borradori L, Mainetti C. Emergency Consultations in Dermatology in a Secondary Referral Hospital in Southern Switzerland: A Prospective Cross-Sectional Analysis. Dermatology. 2019;235(3):243-249. DOI: 10.1159/000498850. Epub 2019 Mar 28. PMID: 30921799.
- Isnard C, Ingen-Housz-Oro S, Fardet L, Matteodo E, Duval S, Hemery F, Khellaf M, Duong TA, Chosidow O, Wolkenstein P. Dermatological emergencies: Evolution from 2008 to 2014 and perspectives. J Eur

- Acad Dermatol Venereol. 2017 Feb;31(2):274-279. DOI: 10.1111/jdv.13860. Epub 2016 Sep
- DOI: 10.1111/jdv.13860. Epub 2016 Sep 29. PMID: 27681584.
- 7. Gupta S, Sandhu K, Kumar B. Evaluation of emergency dermatological consultations in a tertiary care centre in North India. J Eur Acad Dermatol Venereol. 2003 May;17(3):303-5.
 - DOI: 10.1046/j.1468-3083.2003.00690.x. PMID: 12702071.
- 8. Demirel Öğüt N, Gülseren D, Yalıcı-Armağan B, Akdoğan N, Günaydın SD, Elçin G, Karaduman A, Ersoy-Evans S. Dermatology consultation requests from a university hospital's pediatric and adult emergency departments: A 5-year retrospective analysis. Am J Emerg Med. 2022 Mar;53:112-117.
 - DOI: 10.1016/j.ajem.2021.12.068. Epub 2022 Jan 4. PMID: 35016092.
- Bancalari-Díaz D, Gimeno-Mateos LI, Cañueto J, Andrés-Ramos I, Fernández-López E, Román-Curto C. Dermatologic emergencies in a tertiary hospital: A descriptive study. Actas Dermosifiliogr. 2016 Oct;107(8):666-73. English, Spanish.
 DOI: 10.1016/i.ad.2016.05.001. Epub.2016
 - DOI: 10.1016/j.ad.2016.05.001. Epub 2016 May 26. PMID: 27238743.
- Alpalhão M, Uva L, Soromenho G, Filipe P. Dermatological emergencies: One-year data analysis of 8,620 patients from the largest Portuguese tertiary teaching hospital. Eur J Dermatol. 2016 Oct 1;26(5):460-464.
 - DOI: 10.1684/ejd.2016.2825. PMID: 27297693.
- Cydulka RK GB. Dermatological presentations. In: John A, Marx M, editors. Rosen's Emergency Medicine: Concepts and Clinical Practice. 7nd Ed. Philadelphia: Mosby Elsevier; 2010;1529. [Google Scholar] [Ref list]

© Copyright (2024): Author(s). The licensee is the journal publisher. This is an Open Access article distributed under the terms of the Creative Commons Attribution License (http://creativecommons.org/licenses/by/4.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

Peer-review history:
The peer review history for this paper can be accessed here:
https://www.sdiarticle5.com/review-history/114434