

ANALYSIS OF THE PROVISION OF MEDICAL AND PHARMACEUTICAL CARE FOR ALLERGIC DISEASES IN MOROCCO

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Introduction: according to the World Health Organization, allergies are the third most common disease in the world, after cardiovascular disease and cancer. Almost 90% of the world's population has experienced an allergic reaction at least once in their lives.

Aim: conduct a study on approaches to medical and pharmaceutical care for allergy treatment in Morocco. The object of the analysis was data on the prevalence of allergic diseases in the world. The subject of research: literary sources, sites on the selected topic in the world, and Morocco.

Materials and methods: content analysis, statistical analysis, system analysis, observations, and comparisons.

Results and discussion: it is predicted that by 2025, 50% of the world's population (every second inhabitant of the Earth) will suffer from allergic diseases. According to research by the marketing company «ResearchAndMarkets», the increase in these diseases in the world in the period from 2019 to 2029 will be 7.5%. The global market for diagnosis and treatment of allergies will amount to 55.8 billion USD by 2024.

For a long time, great attention has been paid to the prevention of allergic diseases in Morocco. What is evidenced by the creation and functioning of the association of allergists in the country at the state level is the Association Marocaine de Formation Continue en Allergologie (AMFCA) Moroccan Association for Continuing Education in Allergology. The process of recognition of the allergy specialty in Morocco is proceeding quite quickly. Since January 30, 2019, the «Specialty of allergology» has been officially recognized in the country by the supervisory ministries. The specialist must provide documents confirming his higher medical education to the Moroccan Ministry of Health.

Information on the provision of medical care and pharmaceutical care for allergic diseases in Morocco can be obtained through «Mozocare» – a medical access information platform for hospitals and clinics that contains information about 184 internationally accredited hospitals in the world. There are only 6 hospitals in Morocco, representing 3.3% of the total.

On the website of the Association of Allergists (AMFCA) <http://www.amaforca.ma/sa/index.php> there are 12 interactive subsections in French. Anyone can ask a question in any of the sections. Why do you need to provide the following information: the question being asked, email, last name, and first name. Or, if you wish, perhaps ask a question over the phone.

It should be noted that in the subsection «Prescribing medications» (Fiches pratiques) anyone can ask a question about prescribing medications for one or another manifestation of an allergic reaction. The table shows the main groups of drugs from world brands and generics produced in Morocco, recommended for the treatment of allergies. As you know, it is incorrect to prescribe medications without consulting a doctor.

Table. Main groups of drugs, world brands and Moroccan generics used to treat allergies

World brands	Moroccan generics
Antihistamines	
Erius tablets 5 mg № 10, BAYER, Belgium	HUMEX Allergie Comprimé Loratadine 10 mg № 7, Nouveau
Corticosteroids	
Dexamethasone solution d/in 4 mg/ml amp 1 ml № 25 KRKA, Slovenia	DECADRON 0.5 mg, Comprimé sécable
Mast cell stabilizers	
Added table 1 mg № 30, Novartis Pharma France/Switzerland	TOTIFEN 1 mg № 30, Sirop
Leukotriene inhibitors	
Montelukast-Teva 5 mg № 20, Teva Pharmaceutical Industries, Israel	SINGULAIR 5 mg № 20, Comprimé à croque
Nasal Anticholinergic	
Haloperidol-Ratiopharm, 2 mg/ml 30 ml, Merkle GmbH, Germany	HALDOL 2 mg/ml, solution buvable, boîte de 1 flacon compte-gouttes de 30 ml
Decongestants	
Suprastin №20, EGIS Pharmaceuticals, Hungary	SUPRALER 5 mg, Comprimé enrobé
Immunomodulators	
Solgar Vitamin C 500 mg and rosehip tablets №100, Solgar, USA	Comprimés Effervescents Multivitamines, 20 Pièces

We support the opinion of most medical professionals that self-medication without prior consultation with a doctor will save the patient time and money. But in the long run, it could cost much more than his health. It is known that the consequences of self-medication can be potentially life-threatening.

Conclusions. Since 2019, the «Specialty of allergology» has been officially recognized in Morocco. The country has an «Association of Allergists of Morocco» (Association Marocaine de Formation Continue en Allergologie), its website has 12 interactive sections where you can get information about the manifestation of a particular allergic disease, prevention, and its treatment. We analyzed global brands used

in the treatment of allergies (Antihistamines) – Erius tablets 5 mg №10, BAYER, Belgium and their Moroccan generics – HUMEX Allergie Comprimé Loratadine 10 mg № 7, Nouveau.

RESEARCH THE ACTIVITIES OF PARAPHARMACY SHOPS IN MOROCCO

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Introduction: Despite all current trends, Moroccans do not forget about national traditions that play an important role in the pharmaceutical business. We are talking about the so-called Berber pharmacies, which sell traditional medicine such as herbs, argan oil, amber, musk, various minerals and stones.

Aim: Research the activities of parapharmacy shops in Morocco. The object of the analysis was literature, Internet sources, and web-sites companies.

Materials and methods: analysis of documents, comparative and descriptive methods, content-analysis.

Results and discussion: The drug store industry consists of establishments that are concerned with retailing prescription and non-prescription drugs and other “front-end” products. Drug stores may also retail additional merchandise to walk-in customers, such as health products (like vitamins and supplements), toiletries, cosmetics, pharmaceutical products, greeting cards, and non-perishable food products to walk-in customers. Some drug stores provide photo processing services. Drug stores may be stand-alone establishments or may be incorporated into other retail outlets. Drug stores purchase their merchandise from manufacturers in other industries, including: toiletry preparation manufacturers,

- soap and cleaning compounds manufacturers,
- drug wholesalers,
- and photo supplies
- and equipment manufacturers.

It is the aggregation of all dietary supplements: minerals, fish oils/omega fatty acids, garlic, ginseng, ginkgo biloba, evening primrose oil, Echinacea, protein supplements, probiotic supplements, eye health supplements, co-enzyme Q10, glucosamine, combination herbal/traditional supplements, non-herbal/traditional supplements, and all other dietary supplements specific to country coverage. Herbal/Traditional Dietary Supplements, which are sold in parapharmaceutical stores in Morocco:

- Combination Herbal/Traditional Dietary Supplements (Gelée royale arkoreal Arkopharma, ARKOROYAL® 189,00 MAD);
- Aloe (Forever Maroc Detox Aloe vera1 457,00 MAD);