Editorial



Novel clinical pharmacy practice: extended role and improved competencies

Abdulbaset A. Elfituri¹*, Fathi M. Sherif² ¹Faculty of Pharmacy, University of Zawia, Zawia, Libya ²Faculty of Pharmacy, University of Tripoli, Tripoli, Libya

> Corresponding author: <u>elfituri@yahoo.com</u> https://orcid.org/ 0000-0002-6947-3514

Received: 13-02-2022, Published: 31-03-2022

Keywords: Clinical Pharmacy, evolution, pharmacist role, professional, skills

Copyright: Copyright[©] 2022 Elfituri and Sherif. This is an open access article distributed under the **Creative Commons Attribution License**, which permits unrestricted use, distribution and reproduction in any medium, provided the original work is properly cited.

HOW TO CITE THIS: Elfituri and Sherif (2022) Novel clinical pharmacy practice: extended role and improved competencies. Mediterr J Pharm Pharm Sci. 2 (1): 1-3. https://doi.org/10.5281/zenodo.0000000

In health care delivery system, if you are not part of the solution, then you must be part of the problem. Over the last few decades, clinical pharmacy encourages pharmacist and pharmacy support staff to move their focus from product-oriented role towards new direct engagement with patient, to make the most of the benefits that patients obtain from the medicine they take, or the problems they encounter with, their medicines use. In USA, pharmacists' participation in physician ward rounds was shown to reduce adverse drug events by 78% and 66% in general medical and intensive care settings [1. 2]. A study covering 1 029 US hospitals was indicated that centrally based and patient-specific clinical pharmacy services are associated with reduced mortality rate [3]. The services involved were medicines information, clinical research performed by pharmacist, active pharmacist participation in resuscitation teams and pharmacist undertaking admission medication histories. New pharmacists' roles in healthcare system around the globe have moved and developed significantly over the past few years, particularly with expansion of scope of practice which allows pharmacist to focus on the clinical aspects of direct patient care [4, 5]. Pharmacist is drug therapy experts of health care team. Therefore, pharmacist, today, is the arbiters of effective and safe use of medicines. Medication therapy management is one of the major areas in which physician more and more rely on pharmacist to benefit their patients.

The movement of clinical pharmacy practice has predominantly evolved since the middle's 60s and has given new direction to the contemporary practice of pharmacy in all settings. The recent clinical pharmacy practice goes further than providing pharmaceutical services and/or clinical pharmacy. The skills, activities and services used in the provision of new pharmaceutical care include, but are not limited to, patient assessment, patient education and counselling, patient-specific pharmacist care plans, medicine treatment protocols, dosage adjustment, selection of therapeutic alternatives, prescriptive authority, preventive services and managerial skills. New clinical pharmacy practitioners are health care providers offering 'product plus services' combinations involving assessment roles, as well as treatment and wider health care. The pharmacist's role moved from fee-for-service to value-based payments. Pharmacist provides health care advice and manage chronic medical conditions. diabetes mellitus. as hypertension, hyperlipidemia and anticoagulation as well as nicotine dependence [6, 7]. Pharmacist uses consultation room in their pharmacy to conduct clinics of smoking cessation or provide diabetes education and order diagnostic laboratory tests and interpret tests findings. Pharmacist has a prescriptive authority for specified conditions; minor ailments or

conditions: or in emergency circumstances. Pharmacist promotes rational medicine use. They can renew or adapt prescriptions for continuing care. make therapeutic substitutions. They may Pharmacist administers medicines to patients and has an injection authority of vaccines, including influenza vaccine and travel vaccines or for all vaccines and in some countries of all parenteral drug products. Pharmacist performs home medication reviews as well. Furthermore, bigger involvement of the community pharmacist in primary health care has been emphasized. Pharmacist, being a healthcare resource, deliver public health, health education, health promotion and health coaching services, including health protection and disease prevention programs. Examples include, but not limited to, immunization campaigns, child and maternal healthcare services, fighting against tobacco and drug misuse, abuse and addiction, HIV/AIDS control, cancer screening and more recently COVID-19 prevention, immunization and treatment.

In several countries around the world, physicians are supporting pharmacists in their original roles and in assuming new responsibilities. They are warming to the idea of working alongside pharmacists in their practice settings. Further, many are already trying to integrate pharmacist and medication management to achieve good outcomes. The authors believe that once the Libyan physicians observe the clinical value of the pharmacists' involvement, they won't practice any other way [8]. On the other hand, new clinical pharmacy practice involves a blend of thorough competencies. These include scientific knowledge, clinical skills and social abilities. An appropriate selection, education, training and workforce planning represent a prerequisite for current pharmacy role [9, 10]. Accordingly, specialized education programs are being implemented. Detailed clinical training has been provided. That is an evidence-based clinical practice, with problem-solving approaches. The academic study of pharmacy practice already includes topics as primary health care, health education and promotion, social pharmacy, communication and counseling skills, behavior change, legal and ethical aspects, professional judgments, pharmaco-epidemiology and pharmaco-genomics. Currently, practicing pharmacist has to adapt the necessary knowledge and required skills, so pharmacist is able to develop his own practice and role to meet changing needs (continues professional development). Examples of the new practicing pharmacist certifications include diabetes mellitus management certification. smoking cessation certification pharmacist health and travel certification.

Change in a profession is an indication of growth, for thus if a profession fails, to grow, it soon loses its vitality and value to society. A number of forces, both from within and outside the profession of pharmacy have been the agents that produced the recent clinical emphasis in pharmacy practice. Pharmacist is life-long learner; undertake evidencebased practice; train future and fellow member of the profession and pharmacy technician; acting as role models and mentors. Being pharmaceutical experts, Pharmacist educates other health professionals, including physician, dentist and nurse on medicines issues. The expanding role of pharmacy technician should liberate the pharmacist to assume more clinical role and responsibility.

Conflict of interest: The authors declare that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest.

Author contributions: Both authors have contributed equally. Both authors critically reviewed the final form of the manuscript and approved its submission.

Ethical issues: Including plagiarism, informed consent, data fabrication or falsification and double publication or submission have completely been observed by authors.

References

- 1. Kucukarslan SN, Peters M, Mlynarek M, Nafziger DA (2003) Pharmacists on rounding teams reduce preventable adverse drug events in hospital general medicine units. Archives of Internal Medicine. 163 (17): 2014-2018. doi: 10.1001/archinte.163.17.2014.
- Leape LL, Cullen DJ, Clapp MD, Burdick E, Demonaco HJ, Erickson JI, Bates DW (1999) Pharmacist participation on physician rounds and adverse drug events in the intensive care unit. Journal of the American Medical Association. 282 (3): 267-270. doi: 10.1001/jama.282.3.267.
- Bond CA, Raehl CL, Franke T (1999) Clinical pharmacy services and hospital mortality rates. Pharmacotherapy. 19 (5): 556-564. doi: 10.1592/phco.19.8.556.31531.
- Hasan MJ, Bachar SC, Rabbani R, Cope RJ, Gim S (2021) Evolution of pharmacy practice and direct patient care roles for pharmacists in Bangladesh. Journal of the American College of Clinical Pharmacy. 4 (6): 718-722. doi.org/10.1002/jac5.1429.
- 5. Carter BL (2017) Evolution of clinical pharmacy in the US and future directions for patient care. Drugs Aging. 33 (3): 169-177. doi: 10.1007/s40266-016-0349-2.
- Chua SS, Kok LC, Yusof FAM, Tang GH, Lee SWH, Efendie B, Paraidathathu T (2012) Pharmaceutical care issues identified by pharmacists in patients with diabetes, hypertension or hyperlipidaemia in primary care settings. BioMed Central Health Services Research. (12) 12: 388. doi: 10.1186/1472-6963-12-388.
- 7. Sherif FM (2017) Nicotine dependence and role of pharmacist in nicotine addiction control. 2 (1): 3-11. doi: 10.21502/limuj.002.02.2017.
- Tahaineh L, Wazaify M, Alomoush F, Nasser SA, Alrawashdh N, Abraham I (2019) Physicians' perceptions, expectations, and experiences of clinical pharmacists in Jordan-2017. International Journal of Clinical Pharmacy. 41 (5): 1193-1201. doi: 10.1007/s11096-019-00884-6.
- 9. Singh HK, Kennedy GA, Stupans I (2021) The health coaching competency gap Analysis of pharmacist competency frameworks from Australia, Canada, New Zealand the UK & the USA. Health and Social Care in the Community. 12. doi: 10.1111/hsc.13494.
- Zhou M, Desborough J, Parkinson A, Douglas K, McDonald D, Boom K (2019) Barriers to pharmacist prescribing: a scoping review comparing the UK, New Zealand, Canadian and Australian experiences. The International Journal of Pharmacy Practice. 27 (6): 479-489. doi: 10.1111/ijpp.12557.