The Top Influence Pioneer Pharmacy Leaders in Saudi Arabia

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ABSTRACT

Objective: To explore the top influence, pioneer pharmacy leaders (1970-2015) in the Kingdom of Saudi Arabia. Methods: It is a retrospective analysis of the history of most influencing pharmacy leaders in the Kingdom of Saudi Arabia; in the past forty-five years. It revised the top twenty pharmacists in the date period included from 1970-2015. The letter had been sent to some experts’ pharmacist to nominate the top influence pharmacy in the same period. The updated resumes had been revised. The interview had been done with all pharmacy leaders. The analysis consisted of two-part. The first section about a brief history of demographic data. The second section about most achievements during pharmacy career life. Results: There are almost 15 pioneer pharmacy leaders in Saudi Arabia. They changed the face of pharmacy practice through achievement projects, published research and consultations. They worked at several governmental and private sectors. The governmental sections included the Ministry of Health institution, University or National Guard and Military organization. Besides, the pharmaceutical companies. Conclusion: There were excellent pioneer pharmacy leaders in the Kingdom of Saudi Arabia. They changed the image of pharmacy practice at all healthcare institutions. Further studies demand to explore more significant healthcare and pharmacy conference at General Administration of Pharmaceutical care of the Ministry of Health in the Kingdom Saudi Arabia. All of the pharmacy leaders nominated their names with very thankful and received an appreciation letter from the MOH. Several local studies discussed the pharmacy leaders in Saudi Arabia and their current situation and performances. It showed the demanded of the administrative skills and training needed in practice. In addition, they need respecting and appreciation. The aim of this review is to explore the performances of the top twenty pioneer influences pharmacy leaders in the Kingdom of Saudi Arabia.

Keywords: Pioneer, Pharmacy, Saudi Arabia.

INTRODUCTION

The pharmacist life cycle started from he or she graduated from the school of pharmacy. Then worked in the pharmacy practice for a couple of years until promoted to be supervised or Pharmacy leader. After several years of starting off small position in the prominent position, leadership unit reaches of the retired stage. During this cycle, the pharmacist may be very active and talent and produce many activities affected the pharmacy career. By this pharmacy journey, the pharmacist would meet a massive number of regular simple pharmacist and few pioneer pharmacy leaders. Those leaders teach the young pharmacist and affected and make the revolution in the pharmacy career in the local country or may affect the international pharmacy career. Those pharmacy leaders need to appreciate their performance and celebrate them annually during conferences or make publications to document their performance history. The documentation of their activities will encourage young pharmacist to follow them. Several publications had been documented the performances and wrote the success story in the pharmacy career. The American Society of Health-System Pharmacist made the annual conference for Pharmacy leaders to improve their skills, to share their experiences with young leaders and appreciated their activities. Besides, the past strategic pharmacy and updated one in Saudi Arabia and included the celebration of the pharmacy leaders and active pharmacist part of the activities. The celebrating of pharmacy leaders had been done during the early pharmacy strategic plan. It was done during one of

METHODS

It is a retrospective analysis of the history of most influencing pharmacy leaders in the Kingdom of Saudi Arabia in the past forty-five years. It revised the top twenty pharmacists in the date period included from 1970-2015. The letter had been sent to some experts’ pharmacist to nominate the top influence pharmacy in the same period. The updated resumes had been revised. The interview had been done with all pharmacy leaders. The analysis consisted of two parts. The first section about a brief history of demographics data. The second section about most achievements during pharmacy career life. The influence achievement included first or significant project or program founded or started in the pharmacy career in the Kingdom of Saudi Arabia in the study period. Besides, the leading publications or research changed in pharmacy practice or more
citations. The letter had been sent to some expert’s pharmacist to nominate the top influence pharmacy in the same period. The interview had been done with all pharmacy leaders.

RESULTS

There are almost more than 15 pioneer pharmacy leaders in Saudi Arabia. They changed the face of pharmacy practice through achievement projects, published research and consultations. They worked at several governmental and private sectors. The governmental sections included the Ministry of Health institution, University or National Guard and Military organization. Besides, the pharmaceutical companies. The list of top pharmacists as the following:

Name: Mohammed Hammed Alhaidari
Year of Birth: 1951
Year of B.Sc. Pharm: 1976
Year of M.Sc. Pharm: 1982
Board of Pharmaceutical Specialties: BCPS, 1999

Position
1994-1998, Director of the Pharmacy at Riyadh Medical Complex
1998-2000, Director of the Pharmacy at King Khalid Eye Hospital
2000-2015, Director of Drug Registration at the Executive Office of Minister of Health Council

Shared Committee
Ministry of Health Drug Formulary Committee
Saudi Food and Drug Authority Foundations Committee

Achievement Projector Programs
In 1990-1996, First Director Implemented the Saudization of Pharmacy Staff at National Guard Hospital
In 1990-1996, First Director of Pharmacy Implemented International Pharmacy Standers at National Guard Hospital
In 1990-1996, The First Clinical Pharmacy Services Implemented at King Fahad National Guard Hospital
In 1990-1996, Issued Two Books, Poisoning Management Guidelines and Extemporaneous Preparation
In 1990-1996, the First Scholarship Overseas (USA) of for Saudi Pharmacist for Pharm D and Residency Programs
In 1990-1996, the First Implemented of Quality Assurance at National Guard Hospital.

Name: Abdulaziz Saddique
Year of Birth: 1953
Year of B.Sc. Pharm: 1976
Year of Pharm D: 1980 University of Minnesota, USA
Year of M.Sc. Pharm: None
Residency: 1996, PGY 1, University of Wisconsin Hospital and Clinic Madison, USA

Fellowship: 1981-1982 clinical Pharmacy fellowship (Critical Care and Cardio Surgery Research)
Board of Pharmaceutical Specialties: 1980, Clinical Toxicology Board Certification
Others: 2002 - Certified Professional Healthcare Quality (CPHQ), Healthcare Quality Certification Board, California, USA
2014, Certified KPI Professional and Practitioner, KPI Institute.

Position
1985-1996, Director of the Pharmacy at King Khalid University Hospital
1996-2009, Executive Director for Quality Management, King Saud University Hospitals and College of Medicine.
2018-Up-to-date Corporate Chief Performance Improvement and Education, Mouwasat Medical Services Company.

Shared Committee
Participated in KAU college of Pharmacy ACCPA Accreditation Certificate.

Achievement Projector Programs
First Established the Following Services at KKUH Full Unit Dose System, Full I.V. Additives, Cytotoxic Compounding and TPN Services, Extemporaneous and Prepackaging Service
Established the First Hospital based Drug and Poison Information Center, 24 hrs Service at KKUH
First Established Clinical Pharmacokinetics Service, DUE Program, Clinical Pharmacy Service Hospital-wide
First Established Residency Program for Newly Graduated Pharm.D. for One Year and B.Sc. Graduates for Two or More Years.
First Implemented Total Quality Management as the Management System for the Pharmacy Service.

Research or Publications
Books
4. Saddique A, Cafege A. Guide to the Management of Poisoning. First and

Papers

Research
Clinical Coordinator for More than 100 Clinical Research Projects over the past 13 Years in Saudi Arabia, Most of Which were new Pharmaceuticals, in Phase II and III of their Development.

Name: Battal Saif AlBattal
Year of Birth: 1951
Year of B.Sc. Pharm: 1978
Year of M.Sc. Pharm: None
Board of Pharmaceutical Specialties: None.

Position
2002-2010, General Director of Pharmaceutical Care at the Ministry of Health.

Shared Committee
1995-1995, Executive Secretary of Pharmacy and Therapeutic Committee (PTC) at Riyadh Medical Complex.
In 1999, An Executive Secretary and Member in Saudi National Drug Policy.

Achievement
Projector Programs
In 1985, First Unit Dose of Drug Distribution System Implemented at the Ministry of Health Hospital
In 2002, the First General Manager of the General Administration of Pharmaceutical Care at MOH.

Research or Publications
Author of MOH Drug Formulary Book
Battal and Al-Hydary, the Poster for “Implementation of Unit-Dose Drug Distribution System in Riyadh Medical Complex” Presented in the Pharmacy Practice in Saudi Arabia International Symposium at KFSH Nov. 1989
Battal and Al-Hydary, "Guideline for Drug Storage", a Handbook Which was Distributed to All Ministry of Health Hospitals, 1993.

Name: Desouky F. Fayed
Year of Birth: 1955
Year of B.Sc. Pharm: 1978 Tanta University, Egypt. 1983 University of Tennessee, Memphis, USA
Year of Pharm D: 1985; University of Tennessee, Memphis, USA
Residency: 1986; Critical Care and Internal Medicine Residency (1986)
Others: 2000, ACLS certified provider and instructor, Saudi Heart Association FCCS certified Clinical Pharmacist, King Saud University.

Position
2006- Update, CBAHI-Certified senior surveyor
2006- Update, CBAHI-Consultant and medication management trainer
2001-2019, Former director of Pharmaceutical Care, International Medical Center, Jeddah
1992- 1999, Associate Director, Clinical Pharmacy Services, KKUH, Riyadh, Saudi Arabia
1987-2000, Consultant Clinical Pharmacist in the Medical Intensive Care Unit (MICU) and Coronary Care Unit (CCU), KKUH, Riyadh.

Achievement
- 2018-updatd, Medication safety consultant for the American Institute of Healthcare Management (AMIHM)
- 2018, Expert Reviewer- Jordanian community pharmacy standards
- 2006-2019, Consultant and medication management standard team Leader for the Central Board of Accreditation for Healthcare institutions (CBAHI)
- 2015, CBAHI-Medication Management Chapter Version 3 update
- 2010, CBAHI-Medication Management Chapter Version 2 update
- 2005-2019, Teaching kingdom-wide hospitals on CBAHI-medication management standards intent and implementation though hospital orientation program
- 2016, Writing CBAHI-Medication Management Chapter Version 1

Research or Publications

Name: Sabah Bin Mohammad Al Rayes
Year of Birth: 1953
Year of B.Sc. Pharm: 1979
Year of Ph.D.: 1985, Pharmacology – Bradford University (U.K.)

Position
1994-1998, Assistant Director of the Pharmacy at Riyadh Medical Complex
1994-1998, Director Deputuy of Continuous Education and Medical Researches at Riyadh Medical Complex
1998-2004, General Manager of General Directorate of Pharmaceutical and Medical Licenses, Ministry of Health
2004-2012, President of Saudi Pharmaceutical Company (SPC), Elseif Development Group
Name: Othman A Al-Shabanah
Year of Birth: 1953
Year of B.Sc. Pharm: 1976 King Saud University
Year of MSc. Pharm: 1981, University of Pacific, USA
Year of Ph.D.: 1988, University of Pacific, USA
Board of Pharmaceutical Specialties: None.

Position
1989-1993, Assistant Professor, Department of Pharmacology, College of Pharmacy, KSU
1993-1999, Associate Professor, Department of Pharmacology, College of Pharmacy, KSU
1999 - Up to Date, Professor, Department of Pharmacology, College of Pharmacy, KSU
1998-2004, Chairman, Department of Pharmacology, College of Pharmacy, KSU.

Shared Committee
Ministry of Health Drug Formulary Committee
Saudi Food and Drug Authority Foundations Committee
2014 - Up to Date - Chairman of the Drug Technical Registration Committee, Saudi Food and Drug Authority, Kingdom of Saudi Arabia
2014 - Up to Date
Shared in Establishment of Pharmacy Law in Saudi Arabia
Shared in Establishment of Healthcare Law in Saudi Arabia
Shared in Establishment of Import Medication Regulation of SFDA in Saudi Arabia.

Research or Publications
Participated in Numerous Clinical Studies
Participated in Bioequivalence Studies in Cooperation with the College of Pharmacy – King Saud University.

Name: Saud A. Al Eshaiwy
Year of Birth: 1955
Year of B.Sc. Pharm: 1979
Year of MSc. Pharm: 1984, University of Bradford in the United Kingdom
Board of Pharmaceutical Specialties: None.

Position
1990-1993, Director of Pharmaceutical Licens-ing, MOH
1997-2000, Director of Pharmaceutical Care Department at King Fahad National Guard Hospital
2000-2018, General Manager, Salehiya Trading Establishment
2018 – Up to Date. Vice President, Salehiya Trading Company

Shared Committee
1991 – 1993, Chairman of Central Committee for Pharmaceutical Service (MOH)
1996-1998, Member of the Board, Chairman of Pharmacy Practice Committee, SPS
1998-2000, Vice-President, Saudi Pharmaceutical Society

Achievement
Updated Pharmacy and Pharmaceutical Regulations for the Kingdom of Saudi Arabia.

Research or Publications

Name: Saleh Abdullah Omar Bawazir
Year of Birth: 1957
Year of B.Sc. Pharm: 1979 King Saud University
Year of Ph.D., 1984, University of Wales Cardiff, U.K.
Board of Pharmaceutical Specialties: None

Position
2015-Present, CEO, Bawazir Pharma Consultation Center
2006-2014, Vice President for Drug Affairs, Saudi Food and Drug Authority (SFDA)
2006- 2015, Professor, Department of clinical Pharmacy, College of Pharmacy, KSU

Achievement
Updated. Updated. Updated. Updated.
1993-2006, Associate Professor, Department of Clinical Pharmacy, College of Pharmacy, KSU
1996-2005, Minister of Health Advisor for Pharmaceuticals, Ministry of Health, Saudi Arabia
1984-1993, Assistant Professor, Department of Clinical Pharmacy, College of Pharmacy, KSU

Shared Committee
Ministry of Health Drug Formulary Committee

1944-2002, Editor, Gulf Cooperation Council

Achievement
1996-2005, Chairman, Registration Committee for Herbal, Nutritional and Antiseptics Pharmaceutical Products and Medical Devices, Ministry of Health, Riyadh, Saudi Arabia
1996-2005, Chairman, Pharmacy Law and Regulations Reviewing Committee, Ministry of Health, Saudi Arabia
1996-2003, Vice-Chairman, Drug Registration Committee, Ministry of Health, Riyadh, Saudi Arabia
1998-2001, Chairman, Pharmacy and Therapeutic Committee, Ministry of Health, Riyadh

Consultation
1995 - Present: Temporary Advisor, World Health Organization
2004-2006, Consultant, Saudi Food and Drug Authority, Riyadh, Saudi Arabia
2006-Present, Consultant, Advisory panel on International Pharmacopoeia, WHO, Geneva

Research or Publications
Editor of Biomedical Journal
1944-2002, Editor, Gulf Cooperation Council States Drug Formulary

Author Books

First Established Decentralized Satellite Pharmacy Operations to Provide Distribution as well as Clinical Services
First Established Computerized the Centralized I.V. Admixture Services
First Established Mail-Order Pharmacy was Established in Collaboration with SNAS/DHL Courier Services
First Established a Clinical Services at Hospital Including; Drug and Poison Information Center, Total Parenteral Nutrition Services, Oncology-Hematology clinical Services, Cardiovascular Pharmacy Clinical Services, Pediatrics Clinical Services, Drug Utilization Evaluation Program and Investigational Drug and Clinical Protocol Review Services
Established Pharmacy Education and Training Programs Including; Ongoing Continuing Education Program for Pharmacy Staff, Established Internship/Externship Program for Pharmacy Students, Established Saudi Career Development Program (SCDP), Established Hospital Pharmacy Residency Program was Established According to the American Society of Hospital Pharmacists (New Pharmacy Staff) and Scholarship Opportunities: One to Two Distinguished Pharmacists were Extensively Selected Each Year and Provided with Post Graduate Education to Earn their Doctor of Pharmacy or Master of Pharmacy Degree for Saudi Pharmacy Staff
Established the Quality Assurance Program: The Hospital and the Pharmacy Department Based its Practice Standards on guidelines established by the Joint Commission on Accreditation of Healthcare Organization; the American Society of Hospital Pharmacists and the Ministry of Health Regulations

Research or Publications

Name: Sulaiman Alsalamah
Year of Birth: 1958
Year of B.Sc. Pharm: 1980
Year of M.Sc. Pharm: 1994, Master of Science Hospital Pharmacy, University of North Carolina at Chapel Hill, U.S.A.
Residency: 1983-1984; Residency in Hospital Pharmacy, North Carolina Memorial Hospital, North Carolina, U.S.A.

Position
1985-1998, Director of the Pharmacy at King Faisal Specialist Hospital and Research Centre
1998-2000, Deputy Senior Administrator, Clinical Services Division, KFSSH andRC
2000-2006, Director, Clinical Services Division, KFSSH andRC
2006-2009, Director, Training and Development, KFSSH andRC
2009-2018, Executive Director, Supply Chain Management, KFSSHRC

Shared Committee
Chairman, Organizing Committee of the Following Symposia:
1991, Symposium in collaboration with the Saudi Pharmaceutical Society, “Pharmacy Then and Now”
1992, International Symposium on “Pan Pacific Congress III on Pharmacy Practice"

Achievement
Projector Programs
First Established Computerized Central Unit Dose Dispensing and Distribution System

Name: Yousif Abdu Asiri
Year of Birth: 1953
Year of B.Sc. Pharm: 1987 King Saud University
Year of M.Sc. Pharm: 1991, the University of North Carolina at Chapel Hill, United States of America.
Year of Ph.D., 1998, University of the Pacific, Stockton, California, United States of America.
Pharmacy Practice Residency: 1991, the University of North Carolina at Chapel Hill, United States of America.

Name: Khaled M. Al-Haidari
Year of Birth: 1964
Year of B.Sc. Pharm: 1988
Year of Pharm D: 1995
Residency: 1995-1996, Internal Medicine, St. Louis College of Pharmacy, USA
Board of Pharmaceutical Specialties: None

Position
2001-2008, Director, Division of Pharmacy Services, King Faisal Specialist Hospital and Research Centre
2008 - Up to Date, Deputy Managing Director, Arabian Medical Marketing Company (NAWAH Healthcare)

Shared Committee
2005-2009, chairman, Scientific Board of Pharmacy, Saudi Commission for Health Specialty
1997-2004, Member, Directorate of Pharmaceutical Licenses, Medication Registration Committee, Ministry of Health

Achievement Projector Programs
In 2004, Head of Establishment Committee of Pharmacy Practice Residency Training Program in Saudi Commission for Health Specialty
In 2012, Shared in Establishment Pharmacy Automation in Saudi Arabia

Research or Publications
1. Alhaidari K, Aljazairi A. Developing a national pharmacy practice residency program. AJHP.
Achievement
Publications and Presentations
She delivered more than 50 presentation about drug information and research topic, with several publication as following but not limited to:

Name: Abdulrahman Mohammed Alahdal
Year of Birth: 1966
Year of B.Sc. Pharm: 1991 KSU
Year of Pharm D: 1995 University of the Pacific, USA 1995
Year of M.Sc. Pharm: None
Residency: 1996, PGY 1, University of Wisconsin Hospital and Clinic Madison, USA
Board of Pharmaceutical Specialties: None

Position
1994-1998, Director of the Pharmacy at Riyadh Medical Complex
2005, Consultant Clinical Pharmacist
2010 - Up to Date Vice Dean for Development at College of Pharmacy, KAU

Shared Committee
Participated in KAU college of Pharmacy ACCPA Accreditation Certificate

Achievement
Projector Programs
In 2002, Established Pharm.D Program at KAU
In 2005, First Developed Collaboration International Clinical Pharmacy Training Program with University of Arizona

Research or Publications: None

Name: Hussain Mohammed Aareji
Year of Birth: 1967
Year of B.Sc. Pharm: 1994
Year of M.Sc. Pharm: 2017 (MBA)
Board of Pharmaceutical Specialties: None

Position
2003-2005, Director of the Sabya General Hospital, Jazan
2005-2010, Director of the Pharmaceutical Care Administration, Directorate of Health Affairs
2015-2018, Director of Pharmacy Services, Al-Amal and Psychiatric Hospital, Jazan

Shared Committee
Head, Organization Committee of Seven Pharmacy Conferences at Jazan
Member, Pharmaceutical Care Consultation Committee at MOH
Representative of Saudi Pharmaceutical Society at Jazan

Achievement
Projector Programs
In 2005, Foundation of Pharmaceutical Care Website at Region
In 1994, First Established of Unit Dose System in Jazan Region
In 2013, First Established of IV Admixture in Jazan Region

Research or Publications: None

Name: Mohammad hamdan al shammari
Year of Birth: 1969
Year of had Bsc. Pharm: 2001 KSU
Year of had Pharm D: none
Year of Had MSc. Pharm: 2008, Clinical Pharmacy, Jordan University of Science & Technology, Irbid, Jordan

Figure 1: Some pioneer pharmacists in 1983.

Figure 2: Pharmacy conference at King Saud Hospital in 1982.

Figure 3: Dr. Bawazir in 3rd Asia Pacific conference in Najran 1992.

Figure 4: Dr. Bawazir with Dr Osama Shubosky, MOH minister.

Figure 5: Pharmacy conference in Najran 2011.
Name: Yousef Ahmed Alomi

Year of Birth: 1968
Year of B.Sc. Pharm: 1992
Year of M.Sc. Pharm: 1998

Shared Committee
Former Member, National Pharmacy and Therapeutic Committee, Ministry of Health
He Chaired More than 30 National Pharmacy Practice and Clinical Pharmacy Program at Ministry of Health, for Instant.

Position
2012-2015, General Manager of General Administration of Pharmaceutical Care, Ministry of Health
2008-2012, Director of Regional Drug and Poisoning Information Center at King Saud Medical Complex
2002-2004, Director of IV Admixtute at Security Forces Hospital
1998-2002, Director of the Pharmacy at King Saud Medical Complex

Achievement Projector Programs
In 2012-2015, He Established More than 35 National Adults and Pediatrics Clinical Pharmacy Programs at Ministry of Health
In 2014; the First Standards of Pharmacy Workforces Implementations at Hospitals and Primary Healthcare Centers at Ministry of Health
In 2005, the First Implementation of Computerized Pharmacy Order Entry King Saud Medical Complex
In 2001, the First Pharmacy Residency Program Implemented at the Ministry of Health Hospital
In 1998, the First Independent Prescribing of Adults Total Parenteral Nutrition at the Ministry of Health
In 1999, the First Critical Care Clinical Pharmacist at MOH Hospital
In 1999, the First Established of Intravenous Admixture Services at King Saud Medical Complex
In 1999, the First TPN Services at Riyadh City of MOH Hospital

Research or Publications
Editor of Biomedical Journal
2015 - Up to Date, Editor, Drug Therapy Perspective 2015 - Up to Date, Editor, Hospital Pharmacy
He had More than 150 Publications over Several Biomedical Journals.
The More Cited Papers were:
5. Alomi YA. National Pharmacy Administration Programs at Ministry of Health in Saudi Arabia. BAOJ Pharm Sci. 2015;1(9).

Name: Musleh Samil Reshidi

Year of Birth: 1974
Year of had Bsc. Pharm: 2001 KSU
Year of had Pharm D: none
Year of Had MSc. Pharm: 2008, Clinical Pharmacy, Jordan University of Science & Technology, Irbid, Jordan
Residency: none

Position:
2018 – Update, Assistant Director General for Allied Medical Services- hail health region
2012-2018, Director of pharmaceutical care administration- hail health region
2008- Update, Senior Clinical pharmacist, King khalid Hospital, hail general Hospital, hail health region, Saudi Arabia
2008-2012, Asst of director pharmaceutical care administration- hail health region
2004-2005, Director of inventory control administration - hail health region, hail, Saudi Arabia
2001-2004, Pharmacist , pharmacy department , King Khalid Hospital, hail , Saudi Arabia (unit dose , narcotics drug in charge, asst of manager pharmacy)

**DISCUSSION**

During several recent pharmacy conferences with presenting some educational lecture, I usually mentioned some names and figure of pharmacy leaders in Saudi Arabia as explored in Figure 1-5. Many of young pharmacist and students asked me about those names. Most of the young pharmacists do not know them or their pharmacy activities or performance. They are not familiar with the significant evolution of pharmacy career in Kingdom of Saudi Arabia. I was shocked to hear from the pharmacy students or young pharmacist this talk. As a result, it very crucial to write the history of old pharmacy leaders. From review the results and pharmacy leader’s performance, it showed that is the pharmacy leaders pass three stages. The primary stage from old pharmacy leaders came from overseas. They established and founded most of the pharmacy services and draw the line of pharmacy career in Saudi Arabia. Besides, they distributed the concept of pharmaceutical care and performance over the Gulf and Middle East countries. The second stage of pharmacy leaders tried to complete the story of pharmaceutical care at different sectors Ministry of Health, non-MOH governmental organizations, Military Pharmacy institutions, Universities institutions and private sectors. They update the pharmacy services with new technologies and founded and expanded more clinical Pharmacy services with different specialties, established the leading Pharmacy organizations and programs (Saudi Food and Drug Authority, General Administration of Pharmaceutical care, postgraduate year one) and draw a map of pharmacy plan with new Saudi vision 2030. Also, they made a massive revelation in pharmacy education and changed tremendously to the entry level of the Pharm D program and started a residency program of postgraduate year one (PGY1), PGY2 and PGY3. Most of the pharmacy services had been implemented during the second stage of pharmacy leaders. The cure for pharmacy services improvement started with the first stage and reach a peak at the second stage and continue the plateau phase now. In the third stage continue stagnant without much of big revelations or changes. Those third stage Pharmacy leaders followed the previous stages with expanding the services. There is not much changed at third stages because those new pharmacy leaders worked alone without any consulting of past leaders or not building on the previous pharmacy career. Most of the new performances were redundancy or stuck with practice because the third stage Pharmacy leaders do not enough experiences without contact with past Pharmacy history in the local country. There are many challenges will face the third stage Pharmacy leaders for instance; the absence of the first and second Pharmacy leaders, there is not consultation from previous leaders, the absent of Pharmacy history to new leaders. To continue improving pharmacy career in the Kingdom of Saudi Arabia, it should be formulated the national task force from all pharmacy generation as references to the new healthcare system and the younger leaders. Besides, the annual celebration of old and new Pharmacy leaders in all healthcare sectors to gathering the experience and encouraging all pharmacy leaders to Saudi Arabia.

**CONCLUSION**

Over the past several years, there were multiple influence pharmacy leaders in the Kingdom of Saudi Arabia. Those leaders we knew, communicated and practiced pharmacy professionals with them. They had established and implemented various pharmacy foundations and organizations. There were the leaders and guider for the majority of the pharmacists and pharmacy technicians. Some leaders did not mention this review, which the authors might be not familiar with them. We hope for all pharmacists and pharmacy technicians to communicate with the authors and nominate them to publish in the future with other pharmacy leaders in Saudi Arabia.

**ACKNOWLEDGMENT**

None.

**CONFLICT OF INTEREST**

None.

**ABBREVIATIONS**

KSA: Kingdom of Saudi Arabia; MOH: Ministry of Health; ASHP: American Society of Health-System Pharmacist; BCPs: Board of Pharmaceutical Specialties; CBAHI: The Saudi Central Board for Accreditation of Healthcare Institutions; MICU: Medical Intensive Care Unit; CCU: Coronary Care Unit; KSU: King Saud University; PHCs: Primary healthcare centers; SFDA: Saudi Food and Drug Authority; GCC: Gulf Cooperation Council; KKUH: King Khalid University Hospital; KAUH: King Abdul-Aziz University Hospital; USA: United State of America; UK: United Kingdom; SNE: Saudi National Formulary; ACPE: Accreditation Council of Pharmacy Education; KFSHRC: King Faisal Specialist Hospital and Research; GCP: Good Clinical Practice; SFHP: Security Forces Hospital Program; PNU: Prince Noura University; MBA: Mater of Business Administration; KAUI: King Abdul-Aziz University; TPNI: Total Parenteral Nutrition; IV: Intravenous.

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**REFERENCES**