***The Curriculum Vitae***

**MOHAMMED KHAN**

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**Nationality: British.**

**Passport # 145455752**

**DOB: 15-09-1970**

**EXPERIENCE May 2022 – Present.**

**Brook Pharmacy, Queens Road, Halifax HX1 4NE,**

**Locum Pharmacist/Vaccinator**

**Uchem Late Night Pharmacy, Altrincham, Manchester.**

**Vaccinator.**

**Spring Hall Group Practice, Spring Hall Lane, Halifax, HX1 4JG.**

**Vaccinator.**

**Davina Chemists, 362 Platt Lane, Manchester, M14 7DA.**

**Locum Pharmacist/vaccinator.**

**Cohens Chemists, Lynstock Way, Bolton BL6 4SA 2015-Present, (alongside working in Davina Chemists as a locum Pharmacist and Project Manager),BL6 4SA.**

**Life-Style Pharmacy, 160-Trent Road, Shaw,**

**Oldham OL2 7QR, UK.**

**Pharmacist, Project Manager.**

**Role and Duties:**

With my expert knowledge of medicines and health I made a positive difference to people’s lives and wellbeing. I provide care in a range of settings, often at the heart of local communities. I also have a role in preventing people from getting sick by helping them live healthier lifestyles and making sure they get the most from their medicines.

I also work daily with other healthcare professionals, such as doctors, nurses, allied health professionals and healthcare scientists, using scientific evidence to deliver care in local community.

**All aspects of dispensing:**

Preparing and checking medication prescribed to the patient,

Identifying potential interactions between drugs and providing information to the patient,

Ordering stock and ensuring that it is kept in appropriate conditions,

Maintaining accurate and detailed records of all medication processed through the pharmacy,

Offering advice on dosages, side effects and other aspects of drug interaction,

Delivering community healthcare services such as prescription collection and delivery,

Offering screening programmes for common ailments such as diabetes, high blood pressure and high cholesterol,

Recruiting, hiring and training staff including overseeing Trainee Pharmacists and Pharmacy Assistants,

Working with the staff to maintain a clean, customer-friendly workplace,

**CPCS (community pharmacist consultation service),**

**Emergency contraception,**

**MUR (medicine user review),**

**NMS (new medicine service),**

**Repeat Medication,**

**Counselling/Guidance.**

**Vaccination:**

Vaccination (flu and covid-19), post-vaccination care and advice, Stock rotation and check, Data entry, manual handling of Equipment. Setup vaccination camps with GPs, Nurses and other health staff.

**Pharmacy First:**

I provide a robust clinical pathway service which includes self-care and safety-netting advice and, only if appropriate, supplying a restricted set of prescription only medicines without the need to visit a GP.

**Project Management: Cohen’s Chemists, Lifestyle Pharmacy.**

Direct project management initiatives from conceptualization through development, implementation, and management,

Partner with key stakeholders to identify and execute cross-functional goals,

Define timelines, budgets, deliverables, and milestones; allocate, resources Draft and present project proposals,

Negotiate pricing, timelines, services, and terms with vendors,

Manage internal and external contractors and staff throughout project life cycle,

Create progress reports and monitor program data to assess efficiency,

Build strong, lasting relationships and strategic partnerships through exceptional client service; serve as primary point of contact for client communications.

**Key Achievements:**

Executed implementation of £15K Quality of Design (QOD) feature, achieving key milestones on time and under budget, resulting in a 14% increase in annual revenue.

Aligned existing design and framework with expansion initiatives, increasing site traffic by 36% and generating £300K+ in new revenue in just six months.

Created and maintained project documentation, plans, and progress reports.

Conducted quality assurance testing to ensure adherence to requirements.

Supported customer program implementation, extensive training and onboarding.

**Methodologies & Technical skills:**

Hands-on experience using Scrum, Agile, Kanban, Hybrid, and Critical Path Method (CPM) to successfully execute projects,

Expertise in SharePoint, Google Docs, Google Sheets, Slack, MS Excel, and MS Project,

Familiarity with additional PM programs and methodologies, including Celoxis, Insightly, and Critical Chain Project Management (CCPM).

**Leadership Qualities and Sales:**

I take my own initiative keeping my mind prepared to leave my comfort zone and challenge myself to improve,

I have always been a critical thinker and try to foresee potential problems or potential opportunities and take advantage,

Keep myself open to feedback and for that I listen effectively, maintain eye contact, avoid distractions and respond appropriately,

I make it an essential part of my job to know what people need and want. I present myself as a mentor to my staff and discuss in detail their problems and lack of motivation. Try to win their hearts and uplifting the morals by offering different entertainments and employee benefit schemes,

I am disciplined and advice and train my staff to be the same cos every plan needs discipline to be executed successfully.

I continue to study and learn the role played by different leaders. In a rapidly changing environment learning is the best way to adopt and execute.

I delegate employees and let them feel empowered. By doing this, they will feel more involved and have more opportunities to develop new skills. Delegating allows me to concentrate on the goals I need to achieve myself. As a project leader, I am responsible for the work in the end.

I know how to handle difficult people and resolve conflicts. If an employee doesn't work to the best of their ability and brings a negative attitude to work, I have to step up and talk to that person in private. I have to be honest and straightforward. I have to show courage. It is not easy to point out a problem or fire someone, so I always listen to the employee's side of the story before I reach a conclusion and take action.

If an employee has a new idea, I always encourage it, and see where it goes. I try to be one of their biggest fans. Help them to step out of their comfort zone and by believing in them; build their confidence. I recognize when one of my employees is taking the type of initiative that I took when I was just starting out, building my skillset, and honing my leadership skills. Manage the sales team, including defining and communicating key performance indicators and targets. I also analyse market trends and consumer behaviours and develop strategies to boost sales in the new markets. I make data-driven decisions to optimise the company's commercial performance consistently.

I rely on data to analyse patterns, understand the consumer base and study sales performance. Knowing my competition I come up with new ways to outsell them. Manage external partners and collaborating with internal departments to increase the company's revenue. Developing sales targets and identifying growth opportunities. Manage calendar, from trading priorities to launches, campaign activities and promotions. I take responsibility for the mistakes and negative performances of the department. Mentor other sales professionals and guide them to achieve goals. Utilise analytics to measure the successes and weaknesses of sales strategies.

**Clinical Excellence in community:**

I have also done extensive courses on all vaccinations (including Covid-19 and Flu), Mass vaccination, Adult basic life support plus AED, Paediatric life support and IM injection training. I have successfully set-up vaccination camps, NMS (new medicine service), repeat medication, emergency contraception, Pharmacy first. CPCS (community pharmacist consultation service) on a mass level under my supervision and leadership with teams of doctors, pharmacists, nurses and para-medical staff. All my experience is in the UK.

**Global Malaria Programme:**

The Rationale for Malaria Elimination,

Principles and Goals of Malaria Elimination,

Malaria Parasite Biology, Immunology, and Epidemiology in Areas Approaching Elimination,

Malaria Case Management in Areas Approaching Elimination,

Vector Control and Entomological Surveillance in Areas Approaching Malaria Elimination,

Surveillance and Response in Areas Approaching Malaria Elimination,

Chemoprevention to Accelerate Malaria Elimination,

Community Engagement for Malaria Elimination,

Multisectoral Collaboration and Political Commitment for Malaria Elimination,

Prevention of Re-establishment of Malaria Transmission,

Stratification to Tailor Intervention Mixes in Areas Approaching Elimination and Preventing Re-Establishment,

Planning and Management of a Malaria Elimination Programme,

Innovation and Research for Malaria Elimination.

**Hospital Pharmacy:**

I have worked in many different chain pharmacies inside hospitals and GP clinics mainly in the North West of UK. All aspects of dispensing, ensuring the safety and efficacy of drugs, managing pharmacy-related services and logistics, and providing drug information services in a hospital setting. Medication storage and budget planning in line with NHS. Pharmacy managed clinics for vaccination. Reporting of ADRs. Monitoring unlicensed use of drugs with doctors and paramedical staff. Participating in clinical rounds run by all healthcare providers and attending pharmacy-managed clinics. Providing adequate statistics on medication consumptions. Providing drug information services. Conducting pharmacy-related training for under- and postgraduates. Supervising pharmacy-related research activities.

**December 2018 – Present**

**LJMU (Liverpool John Moore University).**

On going, Part-time.

Teaching Associate/Lab Assistant (on going, part-time).

Conducting Lab sessions and lectures for Pharmacy students.

**October 2005- September 2017**

Davina Chemists,

Fallowfield, Manchester,

M14 7DA, UK.

**Duties Included:**

All aspects of dispensing.

Selling over the counter medicines,

Assisting customers with their queries,

Making sales on tills and handling cash,

Inventory Control,

Addict prescriptions,

Methadone preparation,

Dispensing of ostomy/stoma products,

Domiciliary oxygen,

Nursing home prescriptions,

Maintaining superior customer relationships,

Providing outstanding service and support,

Boosting productivity and enhanced customer service,

Resolving potential customer-facing problems leading to customer

satisfaction.

Balancing multiple tasks within fast paced, deadline-driven and customer

facing environments.

Staff training.

**August 2003 – October 2005**

Lifestyle Pharmacy,

160-Trent Road, Shaw,

Oldham OL2 7QR, UK.

**Duties Included:**

All aspects of dispensing.

Selling OTC,

Inventory Control,

Handling the till,

Addict prescriptions,

Methadone preparation,

Dispensing of ostomy/stoma products,

Domiciliary oxygen,

Nursing home prescriptions,

Working on the till and counter,

Undertaken the project to enhance the business.

**September 1994 – January 1998**

Wilson’s Pharmaceuticals

M355+VXQ, Street 11, I-9/3 I 9/3 I-9, Islamabad.

**Duties Included:**

Drug Formulation,

Batch Production,

Oversee the production process to ensure efficiency, accuracy, adherence

to protocols,

Ensuring compliance with regulations such as Good Manufacturing

Practice and Good Laboratory Practice,

Optimize manufacturing workflows,

Working towards production targets,

Conduct risk assessments and prevention strategies,

Data input and recording daily reports,

Quality assurance and control,

Compliance with regulatory requirements.

Oversee all aspects of packaging.

Liaising and registration of new products through DRA.

**EDUCATION: March 2022,**

**Covid and Flu Vaccinator Professional Course (conducted by “National Health Services for Professionals”). CPCS, Emergency Contraceptive, NMS, Safeguarding children and adults at risk levels 2 and 3, Basic Life Support Paediatric Level 2, Sepsis, summary care records (SCR), Repeat Medication.**

**2017 – 2024,**

**Masters Of Philosophy (MPhil).**

**Research:**

**Clinical Medicine, Nano-Crystallization.**

**LJMU, Liverpool, UK.**

**Research:**

**Formulation of Nanocrystals for the controlled delivery of Class II hydrophobic drugs.**

**This research project will investigate the formation of nanocrystals of model and applied class II drugs studying the effect of crystallisation methods and conditions on crystal formation. The effect of formulation parameters on the crystal structure, polymorphism and drug release will be studied. The final study of the project will apply these formulations to specific drug delivery applications such as buccal delivery.**

**A drug nanocrystal is characterized by being a particle smaller than 100 nm, which is of enormous interest technological development due to its thermodynamic properties, that is, a strong dependence on the size that can be controlled production processes. In addition, drug nanocrystals present a unique domain that helps explain behaviour macroscopic examination of other similar drugs, as the properties physical-chemical and thermodynamic changes with the variation of size. With drug nanocrystals, it is possible to administer in the form of a nanosuspension or be transformed for solid dosage forms such as tablets, granules or capsules.**

**In oral administration, nanocrystals of drugs have significant improvements in the absorption and bioavailability. Regarding the speed of dissolution of drugs micronized, this feature is optimized by increasing the area surface, while in nanonized drugs it presents a an even more evident effect, as the surface area is increased and, consequently, the speed of dissolution is greater. Another important aspect in relation to drug nanocrystals is the increase in saturation solubility, which is an essential component constant peculiarity that depends on the temperature and properties of the means of dissolution. Saturation solubility is a balance between molecules, increasing the dissolution pressure changes the equilibrium and the saturation solubility increases. The increase in solubility of saturation and an increase in the intestinal lumen contribute to the increase concentration gradient between the lumen and blood.**

**Many natural compounds are not clearing the clinical trial phases because of these problems. The use of large sized materials in drug delivery poses major challenges, including in vivo instability, poor bioavailability, and poor solubility, poor absorption in the body, issues with target-specific delivery, and tonic effectiveness, and probable adverse effects of drugs. Therefore, using new drug delivery systems for targeting drugs to specific body parts could be an option that might solve these critical issues. Hence, nanotechnology plays a significant role in advanced drug formulations, targeting arena and their controlled drug release and delivery with immense success. Being nanosized, these structures penetrate in the tissue system, facilitate easy uptake of the drug by cells, permit an efficient drug delivery, and ensure action at the targeted location. The uptake of nanostructures by cells is much higher than that of large particles with size ranging between 1 and 10 µm. It presents several advantages when it comes to the delivery of natural products for treating cancer and many other diseases. Natural compounds have been comprehensively studied in curing diseases owing to their various characteristic activities, such as inducing tumor-suppressing autophagy and acting as antimicrobial agents.**

**Recently, nanoparticles were successfully employed on nano/micro-engineered needle patches to minimize the bacterial risks associated with delivery techniques. The most significant challenge associated with transdermal administration is the restriction over the size of the drug molecules that can be successfully delivered.**

**Abstract:**

**Up to 40% of currently available drug substances and up to 70% of those under investigation by the pharmaceutical industry exhibit poor water solubility, leading to reduced bioavailability and increased potential of adverse effects. Furthermore, fears of problems with future launch preclude many otherwise promising water-insoluble compounds from being taken beyond early R&D stages. Particle size reduction down to the nano-scale (nano crystallization) has been shown to increase the bioavailability and reduce the required dose frequency, thereby improving patient compliance and decreasing drug side-effects. Innovative combination of known components.**

**Nanocrystal technology has emerged as a valuable tool for facilitating the delivery of poorly water-soluble active pharmaceutical ingredients (APIs) and enhancing API bioavailability. To date, the US Food and Drug Administration (FDA) has received over 80 applications for drug products containing nanocrystals. These products can be delivered by different routes of administration and are used in a variety of therapeutic areas. To aid in identifying key developmental considerations for these products, a retrospective analysis was performed on the submissions received by the FDA to date. Over 60% of the submissions were for the oral route of administration.**

**Based on the Biopharmaceutics Classification System (BCS), most nanocrystal drugs submitted to the FDA are class II compounds that possess low aqueous solubility and high intestinal permeability. Impact of food on drug bioavailability was reduced for most nanocrystal formulations as compared with their micronized counterparts. For all routes of administration, dose proportionality was observed for some, but not all, nanocrystal products. Particular emphasis in the development of nanocrystal products was placed on the in-process tests and controls at critical manufacturing steps (such as milling process), mitigation and control of process-related impurities, and the stability of APIs or polymorphic form (s) during manufacturing and upon storage. This emphasis resulted in identifying challenges to the development of these products including accurate determination of particle size (distribution) of drug substance and/or nanocrystal colloidal dispersion, identification of polymorphic form (s), and establishment of drug substance/product specifications.**

**The structural combination of a polymer hydrogel network with a nanoparticle (metals, non-metals, metal oxides, and polymeric moieties) holds the promise of providing superior functionality to the composite material with applications in diverse fields, including catalysis, electronics, bio-sensing, drug delivery, nano-medicine, and environmental remediation. This mixing may result in a synergistic property enhancement of each component: for example, the mechanical strength of the hydrogel and concomitantly decrease aggregation of the nanoparticles. These mutual benefits and the associated potential applications have seen a surge of interest in the past decade from multi-disciplinary research groups. Recent advances in nanoparticle–hydrogel composites are herein reviewed with a focus on their synthesis, design, potential applications, and the inherent challenges accompanying these exciting materials. Nanotechnology is an energetic field that encompasses the fabrication and application of materials at the nanometre scale using either top-down approaches or bottom-up assembly. In the biological world, a large number of highly ordered structures and nanomachines made up of macromolecules have evolved to perform many diverse biological functions as well as construction of nano scale structures and devices.**

**A diverse range of nanoparticle–hydrogel composites have been developed with varying types of nanoparticles embedded in a bulk hydrogel framework.**

**LJMU 3is Teaching Course, 2017**

**Teaching course mandatory for Post graduate students.**

**January 2005**

**Project Management Professional**

**Jully 2003**

**Royal Pharmaceutical Society (UK) Licensure Exam.**

**March – 2002**

UMIST, Oxford Road,

Manchester.

**I.E.L.T.S.**

**1994**

Bachelors Of Pharmacy,

University Of The Punjab,

Lahore, Pakistan.

**1985 – 1987**

PAF Intermediate College,

Chaklala, Rawalpindi, Pakistan.

Certificate Received:

**HSSC Pre-medical** (Higher Secondary School Certificate, A-

Levels).

**1976 – 1985**

**GCSC**

Saint Mary’s Cambridge School,

Murree Road, Rawalpindi,

Pakistan.

Certificate Received:

**INTERESTS &** Badminton, Marshal Arts, Weight training,

**HOBBIES** Surfing the net, Motor-Racing sports.

**COMPUTER** I am an advance computer user with a lot of

experience in using the following computer operating systems,

and software:

1-**Microsoft Windows 11, 10, 8 & 7** (all versions),

2-Microsoft Windows Vista (all version),

3-Microsoft Windows XP (all version),

4-Microsoft Windows 2000 & 98,

5-Microsoft Word,

6-Microsoft Excel,

7-Microsoft PowerPoint,

8-Microsoft Access,

9-Microsoft Outlook

10-Linux operating system (Ubuntu, Debian, as well as Android),

11-Apple Mac operating system (OSX Mountain Lion, Pascal)

**Computer Building and repairs:**

Even though I am not a qualified computer/laptop repairer or builder still I

do it as a hobby and a side small scale home business which not only gives

me extra earnings but also keeps my enthusiasm alive.

**Virtualization and cloud computing.**

Over the years I have also learnt virtualization technology and cloud

computing which is becoming more and more popular.

**REFERENCES:** Suitable references furnished upon request.