

WALID YOUSEF TAR SIN

P. O. Box 4789 Tripoli Libya
Tel: +218 21 3605452 (days), +218 91 2151310 (mobile)
E-mail: gm@eklil.com

PERSONAL INFORMATION

Title: Prof. Family name: Tarsin First names: Walid
Sex: Male Date of birth: 3rd May 1965 Nationality: Libyan
Spoken languages: Arabic and English (fluent).

EDUCATION

Post Doctoral **April 2003-Aug. 2005**
Honorary Visiting research fellow in Pharmacy
Pharmacy Practice, School of Pharmacy, University of Bradford, Bradford, UK.

Doctoral of Philosophy (Ph.D.) **Nov. 2002**
Thesis title: “In-vivo, In-vitro and Ex-vivo investigations to identify the influence of inhalation rate when patients use a dry powder inhalers”.
Pharmacy Practice, School of Pharmacy, University of Bradford, Bradford, UK.

Bachelor Degree (BSc. Pharm.) *“Pharmaceutical Sciences”* **July 1987**
Dissertation title: “The Anti-Microbial Activity of Hydnora Abyssinica”.
Faculty of Pharmacy, Al-Fatah University for Medical Sciences, Tripoli, Libya.

Pre-Pharmacy Certificate *“Life Sciences”* **July 1983**
Faculty of Sciences, Al-Fatah University, Tripoli, Libya.

Secondary School General Certificate (SSGC) *“Sciences”* **July 1982**
Ali Al-Najjar Secondary School, Tripoli, Libya.

OTHER RELEVANT COURSES AND SKILLS

English Language Academic course (The Pre-Sessional Programme) **Sep 1999**
English Language Unit, University of Leeds, UK.

Principles of computer and word processing (AW3) **April 1999 - June 1999**
Department of Training, NSR International Enterprise for computers, Tripoli, Libya.

Computer skills: Word processing - MS Word 97.
Statistical packages - MiniTab 11.2, SPSS for windows and MS Excel 97
Presentation packages - MS power point 97.

EMPLOYMENT

Teaching assistant (Pharmaceutics) Al-Fateh University, Tripoli-Libya	Aug. 1987-Dec.1988
Technical Manager (in the committee tender) National Pharmaceutical Company.	Jan 1989-Feb.1995
Pharmacy Director (Owner) Al-Dawahi Pharmacy, Tripoli, Libya.	March 1988-June 1999
Principal Pharmacist Al-Dawahi Pharmacy, Tripoli, Libya.	March 1995-June 1999
Specialist in Clinical Pharmacy Tripoli Medical Centre, Respiratory department	Jan 2004 – Dec 2010
Assistant Professor of Clinical Pharmacy School of Pharmacy, Tripoli University	Aug 2005 – Sep 2014
Associate Professor of Clinical Pharmacy School of Pharmacy, Tripoli University	Sep 2014 – May 2019
Professor of Clinical Pharmacy School of Pharmacy, Tripoli University	May 2019–To date
General Manager Eklil Healthcare, Tripoli Libya	Sep 2004- To date

RESEARCH EXPERIENCE

Research Pharmacist

April 1999 -Date

- Evaluation of drug delivery reproducibility from different inhalation products using Pharmacokinetic methods.
- In-vitro characterisation of inhaled products focussing on Dry Powder Inhalers (DPI) and Pressurised Metered Dose Inhaler (MDI). Determination of resistance characteristics and comparative product features of various marked DPIs to identify the optimum flow and appropriate DPI for different patients.
- Evaluation of factors affecting lung deposition from different inhalation methods and techniques.
- Clinical Trials involving long acting bronchodilators and steroids inhalers for bio-equivalence studies.
- Clinical trials for the evaluation of the In-Check Dial.
- Clinical trials using the inhalation profile recorder to determine the total emitted dose and the fine particle mass of different inhalers in vitro by means of inhalation simulator (The Electronic Lung)
- Clinical trials to identify which inhaled product to prescribe to an asthmatic patients and those with Chronic Obstructive Pulmonary Disease (COPD) using the In-Check Dial.

Technical experiences:

- High Performance Liquid Chromatography method for drug analysis and Aerodynamic particle size characterisation using Twin-Stage Glass Impinger (BP, App. A) And the Anderson Mark-II Cascade Impactor (USP 23).
- Pressure drops and flow rate measurement to identify the resistance of dry powder inhalers.

- Measurement of inhalation profiles of patients uses different inhalers.
- Dose sampling unit, used for the in-vitro dosage emission studies.
- Electronic Lung, used for ex-vivo determination of total emitted dose and fine particle distribution.

LEISURE ACTIVITIES & ACHIEVEMENTS

I enjoy watching and practising most types of sport, particularly Swimming. I competed in the 1980 Olympic Games as a swimmer with the Libyan team; I attended different national and international Competitions (Universade, June 1985, Japan). My ultimate achievement was the Libyan gold medals and record holder of 100 M Backstroke, 400 and 800 M freestyle, (from 1980 till 1986). I was a member of Libyan Swimming Association (LSA).

PUBLICATIONS

1. W. Tarsin, KH Assi and H Chrystyn. In-vitro Intra- and Inter-Inhaler flow rate dependent dosage emission from a combination of Budesonide and Eformoterol in a Dry Powder Inhaler. *Journal of Aerosol Medicine*, Volume 17, Number 1, March 2004, Pages 25-32.
2. K.H. Assi , W. Tarsin and H. Chrystyn. High performance liquid chromatography assay method for simultaneous quantitation of formoterol and budesonide in Symbicort Turbuhaler. *Journal of Pharmaceutical and Biomedical Analysis*, Volume 41, Issue 1, April 2006, Pages 325-328
3. Walid Y. Tarsin, Stanley B. Pearson, Khaled H. Assi and Henry Chrystyn. Emitted dose estimates from Seretide® Diskus® and Symbicort® Turbuhaler® following inhalation by severe asthmatics. *International Journal of Pharmaceutics*, Volume 316, Issues 1-2, June 2006, Pages 131-137.
4. R. Al-Showair, W. Tarsin, K. Assi, S. Pearson, H. Chrystyn. Can all patients with COPD use the correct inhalation flow with all inhalers and does training help? *Respiratory Medicine*, Volume 101, Issue 11, June 2007, Pages 2395-2401
5. W. Tarsin. Choosing an inhaler in asthma and COPD. Presented as Plenary Lecture in the 9th Maghreebean Congress of Asthma and Clinical Allergy. Tripoli, Libya, November 2007.
6. W. Tarsin, G. M. Hawksworth and H. Chrystyn, The intra-individual variability of inhalation rates through two different dry powder inhalers. Presented as a poster and an oral communication in the British Thoracic Society Conference, winter meeting, London, UK, 2000, and published in the *Thorax Journal*, Dec. 2000, Vol. 55, Supp. 3, P146.
7. W. Tarsin, K. Assi, O. J. Corrado and H. Chrystyn, Measurement of patient inhalation rates for different dry powder inhalers using the In-Check Dial. Presented as a poster and an oral communication in the British Thoracic Society Conference, winter meeting, London, UK, 2000, and published in the *Thorax Journal*, Dec. 2000, Vol. 55, Supp. 3, P154.

8. W. Tarsin, K. Brownlee, P. Chetcuti, O. J. Corrado and H. Chrystyn, Use of the In-Check Device to identify inhalation rates through dry powder inhalers. Presented as a poster and an oral communication in the American Thoracic Society, the 97th International Conference, San Francisco, California, USA, 2001, and published in the American Journal of Respiratory and Critical Care Medicine, April 2001, Vol. 163, No. 5, A443.
9. W. Tarsin, G. M. Hawksworth and H. Chrystyn, Inter- and Intra-individual variability of inhalation when patients use a Diskus and a Turbuhaler. Presented as a poster and an oral communication in the American Thoracic Society, the 97th International Conference, San Francisco, California, USA, 2001, and published in the American Journal of Respiratory and Critical Care Medicine, April 2001, Vol. 163, No. 5, A442.
10. W. Tarsin, O. J. Corrado, K. Brownlee, P. Kanthapillai, S. Pearson, P. Chetcuti, and H. Chrystyn. Inter-individual variability of peak inhalation rate through different inhalers by asthmatic children and adults and those with COPD. Presented as a poster in the 11th Annual ERS Congress Berlin 2001, Berlin, Germany and published in the European Respiratory Journal, September 2001, Vol. 18, Supplement 33, P900.
11. W. Tarsin, K. Assi, and H. Chrystyn. In-vitro dosage emission for different flow rates from a combination of eformoterol and budesonide in a dry powder inhaler. Presented as a poster in the 11th Annual ERS Congress Berlin 2001, Berlin, Germany and published in the European Respiratory Journal, September 2001, Vol. 18, Supplement 33, P905.
12. W. Tarsin, G. M. Hawksworth, G. H. Haslam and H. Chrystyn, Inter- and Intra-individual variability of inhalation rates when patients use their dry powder inhalers. Presented as a poster and an oral communication in the British Thoracic Society Conference, winter meeting, London, UK, 2001, and published in the Thorax Journal, Dec. 2001, Vol. 56, Supp. 3, P60.
13. H. Chrystyn, K. Brownlee, P. Chetcuti, O. J. Corrado, P. Kanthapillai, S. Pearson and W. Tarsin. Inhalation rates of asthmatic children (CHILD) and adults and of chronic obstructive pulmonary disease (COPD) patients through inhalers. Presented as a poster and an oral communication in the American Thoracic Society, the 98th International Conference, San Francisco, California, USA, 2002, and published in the American Journal of Respiratory and Critical Care Medicine, May 2002, Vol. 165, No. 8, A51.
14. H. Chrystyn, K. Assi, and W. Tarsin. In-Vitro Characterisation of Budesonide (BUD) and Eformoterol (EF) Combination Emitted from a Dry Powder Inhaler (DPI). Presented as a poster and an oral communication in the American Thoracic Society, the 98th International Conference, San Francisco, California, USA, 2002, and published in the American Journal of Respiratory and Critical Care Medicine, May 2002, Vol. 165, No. 8, A52.
15. H. Chrystyn, S. Pearson and W. Tarsin. Ex-vivo characterisation of the dose emitted from inhaled combination products. Presented as a poster and an oral communication in the American Thoracic Society, the 99th International Conference, Seattle, USA, 2003, and published in the American Journal of Respiratory and Critical Care Medicine, May 2003, Vol. 166, C45.
16. H. Chrystyn, K. Assi, and W. Tarsin. Flow dependent emitted dosage characteristics of budesonide (BUD) 100 µg combined with eformoterol (EF) 6µg in a Turbuhaler. Presented as a poster and an oral communication in the American Thoracic Society, the

99th International Conference, Seattle, USA, 2003, and published in the American Journal of Respiratory and Critical Care Medicine, May 2003, Vol. 166, C59.

17. H. Chrystyn, S. Pearson and W. Tarsin. Ex-vivo measurements of the dose emission characteristics of inhaled combinations using an Electronic Lung. Presented as a poster and an oral communication in the 14th International Society of Aerosols in Medicine Conference, Baltimore, USA, June 2003.
18. H. Chrystyn, K. Assi, and W. Tarsin. In-vitro flow dependent dosage emission characteristics from a Turbuhaler (TBH) containing a combined formulation of budesonide (BUD) 100 µg and eformoterol (EF) 6µg. Presented as a poster and an oral communication in the 14th International Society of Aerosols in Medicine Conference, Baltimore, USA, June 2003.
19. W. Tarsin, S. Pearson and H. Chrystyn. Ex-vivo emitted dose characteristics for combination formulations in dry powder inhalers (DPI). Presented as a poster and an oral communication in the European Respiratory Society, the 13th Annual ERS Congress, Vienna and published in the European Respiratory Journal, 2003. Vol. 22, Supplement 45, P472.
20. W. Tarsin, R. A. M. Alshowair, O. J. Corrado, S. Pearson and H. Chrystyn. Peak inhalation rates (PIFRS) of COPD patients when using a metered dose inhaler (MDI) and recently introduced dry powder inhaler (DPI). Presented as a poster and an oral communication in the British Thoracic Society Conference, winter meeting, London, UK, 2003, and published in the Thorax journal, Dec. 2003, Vol. 58, Supp. 3, P73.
21. H. Chrystyn, R. A. M. Alshowair, O. J. Corrado, S. Pearson and W.Y. Tarsin. Peak inhalation flow rates (PIFRS) achieved by COPD patients when inhaling through recently introduced dry powder inhaler (DPI) and the metered dose inhaler (MDI). Presented as a poster and an oral communication in the American Thoracic Society, the 100 International Conference, Orlando, USA, 2004, and published in the American Journal of Respiratory and Critical Care Medicine journal, April 2004, Vol. 169, Number 7, A612.
22. W. Tarsin, H. Kosiaa, F. Sola, A. Mugadami, M. Abdulaziz and F. Abdulsalam. Paediatric Asthmatics; are they using the right inhaler device. Presented as a poster and an oral communication in the 9th Maghreebean Congress of Asthma and Clinical Allergy. Tripoli, Libya, 2007.
23. W. Tarsin, E. Elgumaty, K. Alforjani, H. Alsharif, I. Elshamli, N. Elshtiwi and M. Soussi. Asthma and Chronic Obstructive Airway Disease (COPD) Similarity and difference. Presented as a poster and an oral communication in the 9th Maghreebean Congress of Asthma and Clinical Allergy. Tripoli, Libya, 2007.
24. W. Tarsin, L. Alwindi, S. Ben Ashour, N. Elgariani, O. Suliman, S. Saeed, N. Elshtiwi, M. Soussi and I. Elshamli. Early Detection of COPD among Smokers. Presented as an oral presentation in the 9th Maghreebean Congress of Asthma and Clinical Allergy. Tripoli, Libya, 2007.
25. W. Tarsin, N. Hashad, F. Alshareef, N. Elshtiwi, Y. Alwafi, I. Elshamli and M. Soussi. Training patients on how to use Metered Dose Inhaler (MDI) by using the 2Tone will improve Asthma Quality Of Life (AQOL). Presented as an oral presentation in the 9th Maghreebean Congress of Asthma and Clinical Allergy. Tripoli, Libya, 2007.

26. W. Tarsin, N. Hashad, I. Elshamli, M. Soussi and H Chrystyn. Training patients on how to use Metered Dose Inhaler (MDI) by using the 2Tone will improve Asthma Quality Of Life (AQOL). Presented as an electronic poster and an oral communication in the European Respiratory Society, the 18th Annual ERS Congress, Berlin and published in the European Respiratory Journal, 2008. Vol. 32, Supplement 52, E4638.
27. W. Tarsin, N. Elshtiwi, N. Algeriani I. Elshamli and M. Soussi. Long acting bronchodilation of Spiriva Handihaler in COPD patients. The influence of the inhalation flow rate (IFR). Presented as an electronic poster and an oral communication in the European Respiratory Society, the 18th Annual ERS Congress, Berlin and published in the European Respiratory Journal, 2008. Vol. 32, Supplement 52, E4274.
28. W. Tarsin, N. Elshtiwi, M. Soussi and I. Elshamli. Early Detection of COPD among Smokers including young age group. Presented as a poster and an oral communication in the European Respiratory Society, the 18th Annual ERS Congress, Berlin and published in the European Respiratory Journal, 2008. Vol. 32, Supplement 52, P1229.
29. W. Tarsin, I. Alshamli and M. Soussi. Preference of the inhaler device and assessment of the technique among the asthmatic and COPD patients. Presented as a poster and an oral communication in the European Respiratory Society, the 21st Annual ERS Congress, Amsterdam and published in the European Respiratory Journal, 2011. Vol. 38, Supplement 55, P3981.
30. W. Tarsin, I. Alshamli, E. Alabbasi, E. Naas and M. Soussi. The relationship between acidic & non acidic gastro esophageal reflux disease (GERD) and asthma. Presented as a poster and an oral communication in the European Respiratory Society, the 21st Annual ERS Congress, Amsterdam and published in the European Respiratory Journal, 2011. Vol. 38, Supplement 55, P3993.
31. W. Tarsin, I. Alshamli and M. Soussi. Knowledge of Health Care Professionals On The Use Of Different Inhaler Devices. *Journal of Aerosol Medicine and Pulmonary Drug Delivery* 2013; 26(2):A52-A53.
32. W. Tarsin, S. Eddali, A. Mugadami. When needed use of inhaled steroids in children with asthma. *European Respiratory Journal*; 2014 44
33. H. Chrystyn, M. Soussi, W. Tarsin, J. Stephenson, M. Milton-Edwards and W. Azouz. Inhalation Characteristics When Patients Use a Dry Powder Inhaler (DPI) Are Related to Their Lung Function When They Are Stable and When Recovering from an Acute Exacerbations. *American Journal of Respiratory and Critical Care Medicine* 2018;197:A3939
34. W. Tarsin, H. Abdulgader, E. Eshmandi and Ishraq Elshamli. Regular Use or on Demand of Inhaled Corticosteroids for the Management of Bronchial Asthma among Libyan Patients. *ARC Journal of Pharmaceutical Sciences (AJPS)* Volume 4, Issue 4, 2018, PP 24-28
35. W. Tarsin, H. Elturki, I. Elshamli and H. Chrystyn. Can patient training help metered dose inhaler technique? *European Journal of Pharmaceutical and Medical Research*. 2019,6(1), 14-21

36. A. Gritli1, F. Abdulsalam and W. Tarsin. Gastroesophageal Reflux in Libyan Children with Respiratory Symptoms. *EC Pulmonology and Respiratory Medicine* 8.2 (2019): 187-194.
37. W. Tarsin, N. Hshad, I. Elshamli and F. Sherif. A Clinical Benefit of Training Asthmatic Patients on How to Use Metered Dose Inhalers by using the 2Tone Trainer in Libya. *Journal of Pharmacy and Pharmacology Research*, 2019; 3 (2): 028-040
38. W. Tarsin, N. Hshad, I. Elshamli, H. Chrystyn and F. Sherif An Assessment of Quality of Life in Libyan Patients with Bronchial asthma: a Clinical Benefit in using most Desirable Inhaler Techniques. *International Journal For Research In Biology & Pharmacy* 2019,5(5): 1-14

REFEREES

Available on request.