

**Irin Dewan**

Associate Professor

Department of Pharmacy

**Academic Qualification:**

PhD Student, Jahangirnagar University, 2012-2013

MBA, Stamford University, 2006

MS Pharm Tech, University of Asia Pacific, 2003

B Pharm, University of Asia Pacific, 2002

**Research Area:**Advanced Pharmaceutical Technology, Drug Delivery  
Systems

1. Jahan, I., Akter, A., **Dewan, I.**, Reza, M.S., & Islam, S.M.A. (2017). Study of Competitive Binding of Amlodipine Besylate and Benazepril Hydrochloride to Bovine Serum Albumin and their Displacement Interaction at the Binding Site. *Journal of Applied Pharmaceutical Science*, 7 (6), 157-163.
2. **Dewan, I.**, Hasan, M.M.A., Islam, S.M.A., Gazi, M., Islam, M.A., & Kazi, M. J. (2017). Formulation And Characterization Of Ethyl Cellulose, Eudragit Rspo And Eudragit Rlpo Loaded Microspheres With Metformin And Glipizide: *In Vitro* And *In Vivo* Studies. *World Journal of Pharmaceutical Reserch*, 6(4), 191-212.
3. **Dewan, I.**, Islam, S., & Rana, M.S. (2015). Characterization and Compatibility Studies of Different Rate Retardant Polymer Loaded Microspheres by Solvent Evaporation Technique: *In Vitro-In Vivo* Study of Vildagliptin as a Model Drug. *Journal of Drug Delivery*, 1-12.

4. **Dewan, I.**, Islam, M.M., Joydebnath, Sultana, S., & Rana, M.S. (2015). Surface Deposition And Coalescence And Coacervation Phase Separation Methods: *In Vitro* Study And Compatibility Analysis Of Eudragit RS30D, Eudragit RL30D, And Carbopol-PLA Loaded Metronidazole Microspheres. *Journal of Pharmaceutics*, 1-10.
5. **Dewan, I.**, Jahan, S.A., Gazi, M., JoydebNath, Asaduzzaman, M., & Hasan, M.M.A. (2015). Design, Preparation, Evaluation, Compatibility And In- Vitro Studies Of Naproxen And Esomeprazole Multilayer Tablets: Layer By Layer Tablet Technology. *World Journal of Pharmaceutical Research*, 4 (6), 472-492.
6. **Dewan, I.**, Islam, S., & Rana, M.S. (2014). Formulation, assessment and compatibility analysis of different polymers loaded microspheres by non aqueous solvent evaporation technique: *in vitro* - *in vivo* study of glibenclamide as a model drug. *International Journal of Pharmaceutical Sciences and Research*, 6(11), 4668-4680.
7. Mohima, T., Jahangir, Islam, S.M.A., Rana, S., & **Dewan, I.** (2014). Encapsulation Of Zidovudine In Different Cellulosic Acrylic And Methacrylic Polymers Loaded Microspheres: In Vitro Characterization And Compatibility Studies. *International Journal of Pharmacy and Pharmaceutical Sciences*, 7(1), 24-30.
8. **Dewan, I.**, Miah, S., Islam, S.M.A., & Rana, M.S.(2014). Design, Characterization And *In-Vitro* Evaluation Of Different Cellulosic Acrylic And Methacrylic Polymers Loaded Aceclofenac Microspheres. *Pakistan Journal of Pharmaceutical Sciences*, 27(5), 1241-1248.
9. Ghosh, R., Haque, M.A., Paul, T.R., Al-Amin, Bhuiyan, M.A., & **Dewan, I.** (2014). Bilayered Tablet Technology: An Overview. *World Journal of Pharmaceutical Research*, 3(4),150-163.

10. Rishikesh, Banu, M.R., Faruki, M.Z., Bhuiyan, M.A., & **Dewan, I.** (2013). Improvement Of Fast Disintegrating Tablets Using Ranitidine HCl. *Journal of Drug Discovery and Therapeutics*, 1(7), 42-45.
11. Rishikesh, Bhuiyan, M.A., Islam, S.M.A., **Dewan, I.**, Islam, M.A., & Miah, M.S.H. (2013). Contemporary Approaches For Bi-Layer Technology Of Drugs Through Oral Route: An Overview. *International Journal of Pharmaceutical Sciences and Research*, 4(4), 1326-1334.
12. Islam, S., Dey, L.R., Shahriar, M., **Dewan, I.**, & Islam, S.M.A. (2013). Enhancement of Dissolution Rate of Gliclazide Using Solid Dispersions: Characterization and Dissolution Rate Comparison. *Bangladesh Pharmaceutical Journal*, 16(1), 45-52.
13. **Dewan, I.**, Amin, T., Chowdhury, S.F., Gazi, M., & Islam, S.M.A. (2013). Study And Evaluation Of Release Kinetics Of Tramadol Hcl From Lipid Based Sustained Release Capsules By Melt Matrix. *Dhaka University Journal of Pharmaceutical Sciences*, 11 (2), 137-145.
14. **Dewan, I.**, Amin, T., Chowdhury, S.F., Gazi, M., Hasan, M., Hossain, F., & Islam, S.M.A. (2013). Development And Validation Of A New HPLC Method For The Estimation Of Azithromycin In Bulk And Tablet Dosage Form. *International Journal of Pharmaceutical Sciences and Research*, 4(1), 1-5.
15. Popy, F.A., **Dewan, I.**, Parvin, M.N., & Islam, S.M.A. (2012). Evaluation of *In Vitro* Equivalence for Tablets Containing the Poorly Water-Soluble Compound Atorvastatin. *Dissolution Technologies*, 19(4), 30-33.

16. Shahriar, M., Sharmin, F.A., Islam, S.M.A., **Dewan, I.**, & Kabir, S. (2012). Membrane Stabilizing And Anti-Thrombolytic Activities of Four Medicinal Plants of Bangladesh. *The Experiment*, 4(4), 265-270.
17. Ghosh, R., Bhuyian, M.A., **Dewan, I.**, Ghosh, D. R., & Islam, S.M.A. (2012). Immediate release drug delivery system (tablets): an overview. *Journal of Applied Pharmaceutical Sciences*, 2(5), 88-94.
18. Paul, P.K., Dey, L.R., Shahriar, M., **Dewan, I.**, & Islam, S.M.A. (2012). Comparative in vitro dissolution study of spironolactone from binary and tertiary solid dispersion: model dependant and independent approaches. *Journal of Drug Delivery and Therapeutics*, 2(4), 1-8.
19. Islam, S.M.A., Dey, L.R., Sayeed, M.S.B., Shahriar, M., & **Dewan, I.** (2012). Comparative quality assessment of acetaminophen immediate and extended release tablets by validated analytical methods. *International Journal of Pharmaceutical Research and Bio Science*, 1(3), 220-237.
20. **Dewan, I.**, Hossain, M. A., & Islam, S.M.A. (2012). Formulation and evaluation of solid Dispersions of carvedilol, a poorly water Soluble drug by using different polymers. *International Journal of Research in Pharmacy and Chemistry*, 2(3), 585-593.
21. **Dewan, I.**, & Islam, S.M.A. (2012). Formulation and evaluation of *in vitro* equivalence for tablets containing the poorly water-soluble compound simvastatin. *International Journal of Pharmaceutical Research and Bio science*, 7(4), 23-27.

22. **Dewan, I.**, Gaji, M., Shahriar, M., & Islam, S.M.A. (2012). In vitro study of self emulsifying drug delivery system of poorly water soluble drug spironolactone. *International Journal of Pharmaceutical Sciences and Research*, 3(3), 890-895.
23. Islam, S.M.A., **Dewan, I.**, Shahriar, M., & Sayeed, M.S.B. (2012). Validation and Application of a Simple HPLC Method for the Comparative In Vitro Dissolution Study of Some Multisource Ciprofloxacin Tablets. *Journal of Analytical Chemistry*, 2(8), 1-12.
24. Haque, M.A., Hasan, M.F., **Dewan, I.**, Islam, S.M.A., & Bhuyian, M.A. (2012). Studies to Improve Dissolution Properties of Poorly Soluble Carbamazepine by Solid Dispersion. *Bangladesh Pharmaceutical Journal*, 15(1), 73-77.
25. Islam, S.M.A., Shultana, S., Sayeed, M.S.B., & **Dewan, I.** (2012). UV-spectrophotometric and rp-hplc methods for the simultaneous estimation of acetaminophen and caffeine: validation, comparison and application for marketed tablet analysis. *International Journal of Pharmacy and Pharmaceutical Sciences*, 2(1), 39-45.
26. **Dewan, I.**, Shahriar, M., & Islam, S.M.A. (2011). Dissolution study of Spironolactone by using solid dispersion technique. *Stamford Journal of Pharmaceutical Sciences*, 4(2), 42-47.
27. **Dewan, I.**, Shahriar, M., & Islam, S.M.A. (2011). Study of Differential Scanning Calorimetry of Atorvastatin in Solid Solution. *Bangladesh Pharmaceutical Journal*, 2(14), 141-146.

28. Hossain, M.A., Sayeed, M.S.B., Haque, M.A., **Dewan, I.**, & Islam, S.M.A. (2011). Validation of RP-HPLC method for simultaneous estimation of chloramphenicol and dexamethasone phosphate in eye drops. *Journal of Advanced Pharmaceutical Research*, 2(3), 135-141.
29. Islam, S.M.A., Islam, S., Shahriar, M., & **Dewan, I.** (2011). Comparative in vitro dissolution study of aceclofenac marketed tablets in two different dissolution media by validated analytical method. *Journal of Applied Pharmaceutical Science*, 1 (9), 87-92.
30. Hossen, M.A., Haque, M.A., **Dewan, I.**, Kabir, A. N. M. H., Hossain, M.K., & Islam, S.M.A. (2011). Development and validation of RP-HPLC method for the simultaneous estimation of hydrochlorothiazide and losartan potassium in tablet dosage form. *Dhaka University Journal of Pharmaceutical Sciences*, 10(1), 35-42.
31. Banu, H., Sahariar, M.R., Sayeed, M.S.B., **Dewan, I.**, & Islam, S.M.A. (2011). Formulation development of bi-layer acetaminophen tablets for extended drug release. *Journal of Chemical and Pharmaceutical Research*, 3(6), 348-360.
32. Oishi, T.S., Haque, M.A., **Dewan, I.**, & Islam, S.M.A. (2011). Comparative in vitro dissolution study of some ciprofloxacin generic tablets under biowaiver conditions by RP-HPLC. *International Journal of Pharmaceutical Sciences and Research*, 2(12), 3129-3135.
33. Shahriar, M., Haque, M. R., Kabir, S., **Dewan, I.**, & Bhuyian, M.A. (2011). Effect of Proteinase-K on Genomic DNA Extraction from Gram-positive Strains. *Stamford Journal of Pharmaceutical Sciences*, 4(1), 53-57.

34. **Dewan, I.,** & Islam, S.M.A. (2011). Study of release kinetics of dexamethasone from biodegradable PLGA in-situ implants. *International Journal of Pharmaceutical Sciences and Research*, 2(11), 3039-3045.
35. Elias-AL-Mamun, M., Khan, H.A., **Dewan, I.,** & Jalil, R. (2009). In vitro study on tamsulosin release kinetics from biodegradable PLGA in situ implants. *Pakistan Journal of Pharmaceutical Sciences*, 22 (4), 360-367.
36. **Dewan, I.,** Elias-AL-Mamun, M., & Jalil, R. (2008). Studies on Swelling Behavior of HPMC based Matrix Tablets by the Application of Digital Imaging Technique. *Dhaka University Journal of Pharmaceutical Sciences*, 7(2), 169-175.
37. **Dewan, I.,** Elias-AL-Mamun, M., & Jalil, R. (2007). *In vitro* Release Kinetics of Progesterone from Biodegradable In situ Implant System. *Dhaka University Journal of Pharmaceutical Sciences*, 6(2), 99-103.

### **Conference Papers/ Workshops/ Seminars**

Dewan, I. (2015). Colorcon Forum of Solid Dosage Form Workshop, Colocon, Radison, Dhaka.