

ISSN NO (P) : 2307 4728 | Vol.4 | Issue 1

# JATMED

Journal of Ayurvedic and Traditional Medicines

Containing the proceedings  
of

**5<sup>th</sup>** **AYUNS** International  
Conference 2017





# **5<sup>th</sup>** **AYUNS** International Conference 2017

Sunday, 19 November, 2017

on

*"Our plants, our health; discovering drug from indigenous plant".*

## Venue

Senate Bhaban, University of Dhaka  
Bangladesh.

Organized by :



**Ayurved and Naturopathy  
Association of Bangladesh**



**Department of Pharmacy  
University of Dhaka**



**Public Health  
Foundation, Bangladesh**



**Hamdard University  
Bangladesh**

**Mobile :** 01716544666 **Email :** ayusamir@gmail.com  
**web :** ayunsbd.org **Journal web :** jatmed.net



## Editorial Board

### Chief Editor

**Professor Mohammed Rahmatullah, Ph.D**

Dean

Faculty of Life Sciences, University of Development Alternative

### Managing Editor & Publisher

**Dr. Samir Kumar Saha**

Founder President

Ayurved & Naturopathy Association of Bangladesh [AYUNS]

### EDITORS

- Professor Gerald Reeck, Ph.D
  - Professor Yong-Kyu Lee, Ph.D
  - Professor A.R.M. Said Al-Tawaha, Ph.D
  - Professor Pulok K. Mukherjee, Ph.D
  - Professor M.S.K. Choudhuri
  - Professor Abu Shara Shamsur Rouf Ph.D
  - Professor Sitesh C. Bachar, Ph.D
  - Professor S.D. Sarker, Ph.D
  - Professor Samir K. Sadhu, Ph.D
  - Majeedul Hasan Chowdhury, Ph.D
  - Taufiq Rahman, Ph.D
  - Joydeb Kumar Kundu, Ph.D
  - Professor M.S. Baghel, Ph.D
  - Dr. Ataur Rahman, Ph.D
  - Dr. Nihar Ranjan Datta
- Kansas State University, USA.  
Korea National University of Transportation, South Korea  
Al Hussein Bin Talal University, Jordan.  
Jadavpur University, India.  
Jahangirnagar University, Bangladesh.  
University of Dhaka, Bangladesh.  
University of Dhaka, Bangladesh.  
University of Wolverhampton, UK.  
Khulna University, Bangladesh.  
City University of New York, USA.  
University of Cambridge, UK.  
Keimyung University, South Korea.  
Gujarat Ayurved University, India.  
Govt. Unani & Ayurvedic Medical College, Bangladesh.  
Govt. Unani & Ayurvedic Medical College, Bangladesh.

### Associate Editors

- Dr. Md. Babul Akter
  - Dr. Rejaul Karim Talukder
- Secretary General [AYUNS], Ex. Head of Department  
Hamdard University Bangladesh  
Joint Secretary [AYUNS], Nutrition Expert, UNDP-Bangladesh

Online : [jatmed.net](http://jatmed.net)



## AYUNS 21.2017: Formulation Design, Development And Optimization Of Granules Prepared By Wet Granulation Method Using A Multi-Functional Single-Punch Tablet Press To Avoid Tableting Defeat.

Lamya Latifa Tonoya<sup>1</sup>, Md. Mehdi Hasan<sup>2\*</sup>, Biplob Mandal<sup>1</sup>, Yousuf<sup>1</sup>, Harun Ar Rashid<sup>1</sup>.

<sup>1</sup>(Department of Pharmacy, Faculty of Health science, Northern University Bangladesh, Dhaka -1205, Bangladesh).

<sup>2</sup>(Research Associate, Department of Pharmacy, Faculty of Health science, Northern University Bangladesh, Dhaka -1205, Bangladesh).

\*Corresponding author

### Correspondence Address:

Md. Mehdi Hasan  
Research Associate,  
Department of Pharmacy, Faculty of Health science,  
Northern University Bangladesh, Dhaka -1205, Bangladesh.  
Mobile number: +8801671599110,  
Email address: mehdinub@yahoo.com

### Background & Objectives:

We previously determined "Tableting properties" by using a multi-functional single-punch tablet press (GTP-1). We plotted "Compactability" on the x-axis against "Manufacturability" on the y-axis to allow visual evaluation of "Tableting properties".

### Methods:

Here, we examined whether this evaluation method can be used in the formulation design of tablets prepared by wet granulation. We used the GTP-1 to measure "Tableting properties" with different amounts of binder, disintegrant, and lubricant, and compared the results with those of tableting on a commercial rotary tableting machine.

### Results:

Tableting failures (capping and binding in particular) occurred when samples that had been evaluated as having poor "Compactability" or "Manufacturability" on the GTP-1 were compressed on the rotary tableting machine.

### Conclusions:

Thus, our evaluation method predicted tableting defeat at the commercial scale. The method will prove useful for scaling up production.

**Keywords:** Tableting, formulation design, wet granulation, capping, binding, single-punch tablet press

## AYUNS 22.2017: The Prospect of Natural medicine in Bangladesh and its essentiality, government approach and present status

M A Momith Azad<sup>1\*</sup>, Dr. Md. Redwanur Rahman<sup>2</sup>, Dr. Doulot Al- Mamun<sup>3</sup>

<sup>1</sup>Institute of Environmental Science (IES), University of Rajshahi, In-charge, R&D, Natural medicine division, The IPI Ltd. Dhaka-1209. Bangladesh.

<sup>2</sup>Associate professor, Institute of Environmental Science (IES), University of Rajshahi, Bangladesh. <sup>3</sup>Doulot Al-Mamun, Assistant professor, Government Unani & Ayurvedic Medical College, Mirpur Dhaka, Bangladesh

\*Corresponding author

### Correspondence Address:

Dr. M A Momith Azad  
Institute of Environmental Science (IES)  
University of Rajshahi, In-charge, R&D  
Natural medicine division  
The IPI Ltd. Dhaka-1209. Bangladesh.