

## Accepted Manuscript

Review

All disease begins in the gut: Influence of gastrointestinal disorders and surgery on oral drug performance

Grace B. Hatton, Christine M. Madla, Sarit C. Rabbie, Abdul W. Basit

PII: S0378-5173(18)30453-8

DOI: <https://doi.org/10.1016/j.ijpharm.2018.06.054>

Reference: IJP 17601

To appear in: *International Journal of Pharmaceutics*

Received Date: 9 May 2018

Revised Date: 23 June 2018

Accepted Date: 25 June 2018

Please cite this article as: G.B. Hatton, C.M. Madla, S.C. Rabbie, A.W. Basit, All disease begins in the gut: Influence of gastrointestinal disorders and surgery on oral drug performance, *International Journal of Pharmaceutics* (2018), doi: <https://doi.org/10.1016/j.ijpharm.2018.06.054>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



## All disease begins in the gut: Influence of gastrointestinal disorders and surgery on oral drug performance

Grace B. Hatton<sup>1</sup>, Christine M. Madla<sup>1</sup>, Sarit C. Rabbie<sup>1</sup>, Abdul W. Basit<sup>1\*</sup>

<sup>1</sup>UCL School of Pharmacy, University College London, 29 – 39 Brunswick Square, London, WC1N 1AX

\*Correspondence: [a.basit@ucl.ac.uk](mailto:a.basit@ucl.ac.uk)

### Contents

<b>1.0 Introduction</b> .....	<b>3</b>
<b>2.0 Gastrointestinal diseases and its implications on oral drug delivery and absorption</b> .....	<b>4</b>
<b>2.1 Irritable bowel syndrome</b> .....	<b>4</b>
<b>2.2 Inflammatory bowel diseases</b> .....	<b>6</b>
2.2.1 Ulcerative Colitis.....	7
2.2.2. Crohn’s disease .....	9
<b>2.3 Malabsorption syndromes</b> .....	<b>12</b>
2.3.1 Celiac disease .....	13
<b>2.4 Microbial dysbiosis</b> .....	<b>15</b>
<b>3.0 Infections of the intestine and its implications on oral drug delivery and absorption</b> .....	<b>17</b>
<b>3.1 <i>Helicobacter pylori</i> infection</b> .....	<b>18</b>
<b>3.2 Traveller’s diarrhoea</b> .....	<b>19</b>
<b>3.3 <i>Clostridium difficile</i> infection</b> .....	<b>20</b>
<b>4.0 Impact of gastrointestinal and bariatric surgery on oral drug delivery and absorption</b> .....	<b>21</b>
<b>4.1 Gastric resections and bypass</b> .....	<b>22</b>
<b>4.2 Small intestinal resections</b> .....	<b>23</b>
<b>4.3 Colonic resections</b> .....	<b>24</b>
<b>5.0 Conclusions</b> .....	<b>25</b>
<b>Acknowledgements</b> .....	<b>25</b>
<b>References</b> .....	<b>26</b>

Download English Version:

<https://daneshyari.com/en/article/8519604>

Download Persian Version:

<https://daneshyari.com/article/8519604>

[Daneshyari.com](https://daneshyari.com)