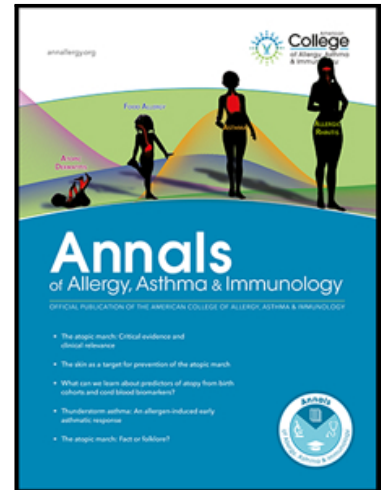


# Accepted Manuscript

Dose counting and use of short-acting beta-agonist inhalers in emergency department patients with asthma exacerbation

Sarah Kyuragi Luthe MD , Tadahiro Goto MD, MPH ,  
Bradley E. Chipps MD , Daniel J. Pallin MD, MPH ,  
Stanislav Stoyanov MD, MBA , Carlos A Camargo Jr. MD, DrPH ,  
Kohei Hasegawa MD, MPH

PII: S1081-1206(18)30386-7  
DOI: [10.1016/j.anaei.2018.05.020](https://doi.org/10.1016/j.anaei.2018.05.020)  
Reference: ANAI 2563



To appear in: *Annals of Allergy, Asthma Immunology*

Received date: 5 March 2018  
Revised date: 22 April 2018  
Accepted date: 18 May 2018

Please cite this article as: Sarah Kyuragi Luthe MD , Tadahiro Goto MD, MPH ,  
Bradley E. Chipps MD , Daniel J. Pallin MD, MPH , Stanislav Stoyanov MD, MBA ,  
Carlos A Camargo Jr. MD, DrPH , Kohei Hasegawa MD, MPH , Dose counting and use of short-  
acting beta-agonist inhalers in emergency department patients with asthma exacerbation, *Annals of  
Allergy, Asthma Immunology* (2018), doi: [10.1016/j.anaei.2018.05.020](https://doi.org/10.1016/j.anaei.2018.05.020)

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.

1 **Dose counting and use of short-acting beta-agonist inhalers in emergency department**  
2 **patients with asthma exacerbation**

3

4 Sarah Kyuragi Luthe, MD<sup>1,2</sup>; Tadahiro Goto, MD, MPH<sup>1</sup>; Bradley E. Chipps, MD<sup>3</sup>; Daniel J.  
5 Pallin, MD, MPH<sup>5</sup>; Stanislav Stoyanov, MD, MBA<sup>4</sup>; Carlos A Camargo Jr., MD, DrPH<sup>1</sup>; and  
6 Kohei Hasegawa, MD, MPH<sup>1</sup>

7

8 **Affiliations:**

- 9 1. Department of Emergency Medicine, Massachusetts General Hospital, Boston, MA  
10 2. Department of Anesthesiology and Critical Care Medicine, Asahikawa Medical University,  
11 Hokkaido, Japan  
12 3. Capital Allergy and Respiratory Disease Center, Sacramento, CA  
13 4. Teva Pharmaceutical Industries, Frazer, PA  
14 5. Department of Emergency Medicine, Brigham and Women's Hospital, Boston, MA

15

16 **Corresponding Author:** Dr. Sarah Kyuragi Luthe, Department of Emergency Medicine,  
17 Massachusetts General Hospital, 125 Nashua Street, Suite 920, Boston, MA 02114-1101.

18 Tel: 617-726-5276. Fax: 617-724-4050; Email address: sluthe@hsph.harvard.edu

19

20 **Author contributions:** S.K.L. and K.H. take the responsibility for the paper as a whole. S.K.L.,  
21 T.G., B.E.C, C.A.C., and K.H. conceived the study. C.A.C., and K.H obtained the research  
22 funding. D.J.P, C.A.C., and K.H. collected the data. S.S., C.A.C., and K.H. supervised the  
23 conduct of the study. K.H. provided statistical advice. S.K.L. and T.G. analyzed the data. S.K.L.  
24 drafted the manuscript, and all authors contributed substantially to its revision.

Download English Version:

<https://daneshyari.com/en/article/8711618>

Download Persian Version:

<https://daneshyari.com/article/8711618>

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