Running head: DNP FINAL SCHOLARLY PROJECT PAPER	1
Impact of an Inhaler Technique Vide-Education Tool on Pediatric Asthma: Abstract	
Kinjal Bhatt	
Doctorate of Nursing Practice Scholarly Project Paper	
The Johns Hopkins University School of Nursing	
On my honor I pledge that I have neither given nor received any unauthorized assistance on this	is
assignment. – Kinjal Bhatt, 26 April 2020	

DNP FINAL SCHOLARLY PROJECT PAPER

2

Abstract

Objective: To evaluate if an educational video can improve demonstrated inhaler technique

performed by pediatric patients (age 4 to 19 years) or caregivers admitted to a general pediatric

unit for an asthma exacerbation and reduce rates of asthma-related readmission 30-days after

discharge.

Methods: Patients admitted to the unit for asthma exacerbation were required to watch a video

that demonstrated correct metered dose inhaler technique based on a corresponding checklist.

Two video options from the Children's Hospital of Atlanta were offered for viewing. One video

demonstrated inhaler used with spacer and one demonstrated inhaler used with spacer and mask.

Patients' inhaler technique was assessed on the checklist pre- and post-intervention. 30-days post-

discharge, patients received a telephone call inquiring if they required readmission.

Results: Individuals using an inhaler with spacer and inhaler with spacer and mask demonstrated

significantly improved inhaler technique. All individuals eligible to receive the intervention

viewed the educational video and completed the follow-up telephone call. No patients required

readmission within 30-days of discharge from the hospital.

Conclusion: An educational video can improve inhaler technique and should be implemented as

the unit's new standard of care for educating pediatric patients and their caregivers on correct

inhaler technique prior to discharge. Additionally, educational videos are feasible to implement in

the in-patient setting. Finally, improved inhaler technique may contribute to low hospital

readmission rates for pediatric patients with asthma.

Key Words: Pediatric, Asthma, Inhaler, Technique, Metered Dose Inhaler, Video, Education