



Respiratory Inhaler Education in a Family Medicine Residency Program

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Background

Problem:

- Chronic Obstructive Pulmonary Disease (COPD) is a progressive life-threatening lung disease affecting more than 16 million Americans and results in many hospital admissions/readmissions.
- Lack of proper respiratory inhaler training among family medicine residents
- Poor response to video-based learning implemented in PDSA cycles 1 & 2

Solution:

Implement hands-on inhaler training sessions during family medicine residency

Aim:

Improve resident inhaler knowledge and skills through hands-on educational sessions



Methods

Pre-Survey

Self reported confidence level for inhaler teaching
Scale 0-10 (10= very confident)

Review of COPD management with hands-on practice

Practical session

- Teach back for 2 inhalers
 - Objectively graded
 - Standardized rubric including 7-8 steps

Post-survey





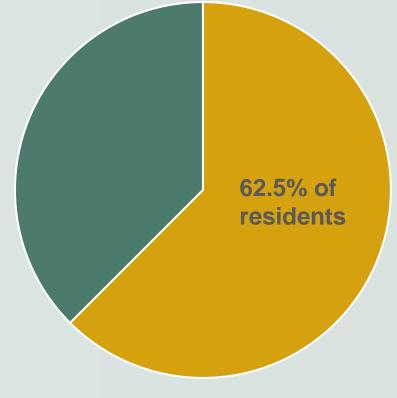












Average score for hands-on practical session was 93%.

■ Score > 90% ■ Score < 90%



Conclusion

- Hands-on educational series successfully raised resident confidence level
- Greater gains in confidence and skill levels were achieved by hands-on training compared to didactic and video-based training
- We plan to incorporate this educational series into our yearly didactic sessions



Public Health Implications

- Healthcare providers working with patients who use inhaled medications have an essential role in patient education
- Further resident physician training in this area may minimize common medication use errors and improve medication compliance leading to improved patient outcomes