NAPCRG 52nd Annual Meeting — Abstracts of Completed Research 2024.

Submission Id: 6643

Title

Adjunctive Saline Nasal Irrigation for Acute Rhinosinusitis: Results of a Randomized Pilot Study

Priority 1 (Research Category)

Clinical trial

Presenters

David Rabago, MD, Aleksandra Zgierska, MD, PhD, DFASAM, Alyssa Turnquist, BS, Nawar Shara, Sebastian Tong, MD, MPH, Stephen Fernandez, MPH, Mary Henningfield, PhD, Charles Fencil, MD, MPH, Derjung Tarn, MD, PhD, Alex Krist, MD, MPH, Daniel Merenstein, MD, Keisha Herbin Smith, MA, Joshua Blaker, BS, Jessy Sparenborg, BS, Nicholas Franko, BS, Bruce Barrett, MD, PhD, Cameron Casey, BS, Danielle Schramm, MSPH, Tina Tan, MS, Levelle Drose-Bigatel, MD, Michael Whitfield, Sara Stienecker, Mihriye Mete, PhD, Kavya Sanghavi, MPH, BDS

Abstract

CONTEXT Acute rhinosinusitis (ARS) affects 15% of the adult population annually, and accounts for 20% of adult outpatient antibiotic prescriptions. Evidence is needed to clarify effectiveness of standard treatment, which includes antibiotics and intra-nasal corticosteroids (INCS), and supportive care including saline nasal irrigation (SNI), which is reported safe and effective for limiting sino-nasal symptoms but is poorly studied in ARS. OBJECTIVE We assessed feasibility and patient-reported clinical outcomes of adjunctive use of SNI in ARS. STUDY DESIGN/INTERVENTION The PCORI-funded NOSES (Nasal Steroids, Nasal Irrigation, Oral Antibiotics and Subgroup Targeting for Effective Management of Sinusitis) study has completed a double-blind, 4-arm (antibiotics vs antibiotics+INCS vs INCS vs placebo antibiotics) feasibility RCT. Participants in six U.S. practice based research networks were followed in pre-randomized (days 0-9) and randomized (days 10-23) phases. INTERVENTION All participants were provided with SNI materials (neti pot, salt packets, and distilled water) and advised to use twice daily as part of supportive care. SETTING/POPULATION/OUTCOME MEASURES Outpatient, participants with ARS. Primary: days participants used SNI at least once assessed in daily diary. Secondary: average rate of SNI use, percentage of participants who used SNI at least 50% of study days; perceived effect on sino-nasal symptoms; association of SNI use with validated clinical outcomes instrument severity score. RESULTS:

140 participants in both phases of the study completed 1606 of 1727 possible diary entries (93%); 534 diary entries noted SNI use (33%). Pre-randomized participants reported using SNI 37.6% (SD=34.0) of the time independent of days in the study. Randomized participants used SNI 36.8% (SD=38.4) of days in the study. Among pre-randomized participants (n=110), 51 (46%) participants reported using SNI on a least 50% of study days; among randomized participants (n=87), 27 (31%) did so. SNI use varied by study site (P<.0001). 330 (81%) of diary entries noting SNI use reported it reduced nasal/sinus symptoms. SNI use and self-reported clinical outcomes scores were not associated in either study phase.

CONCLUSIONS: Participants in this pilot study used SNI in both pre-randomized and randomized phases of the of the study, though adherence was low. Results suggest the need to enhance SNI adherence strategies.

Downloaded from the Annals of Family Medicine website at www.AnnFamMed.org.Copyright © 2024 Annals of Family Medicine, Inc. For the private, noncommercial use of one individual user of the Web site. All other rights reserved. Contact copyrights@aafp.org for copyright questions and/or permission requests.