The Tools for Practice Team wants to wish you a Merry Christmas.

Tools for Practice is proudly sponsored by the Alberta College of Family Physicians (ACFP). ACFP is a provincial, professional voluntary organization, representing more than 4,400 family physicians, family medicine residents and medical students in Alberta. Established over sixty years ago, the ACFP strives for excellence in family practice through advocacy, continuing medical education, and primary care research. <u>www.acfp.ca</u>

December 19, 2016



What's in your Stocking: Evidence around Santa Claus.

Clinical Question: What has research told us about Santa Claus?

Bottom Line: Santa is linked to kindness, although children might not like waiting in line to see him at the mall. Children often stop believing in Santa around age seven and parents are more bothered than children who stop believing. Just because some children stop believing in Santa does not mean he does not exist: Some people don't believe in EBM, yet here we are.

Evidence:

Is Santa linked to kindness?

- 52 adults shown the same story by the same man dressed as Santa or a Doctor found Santa "kinder": 9.2 versus 8.7 out of 10 (p=0.05).¹
 - A No defined minimally important difference in kindness: But every little bit matters.
- 25 first-graders donated more gum when randomized to discuss Santa versus Easter Bunny or pets (3.6 pieces versus 1.3-1.6).²

Unclear if invoking Santa to promote good behaviour yields intended results.³ Are children excited to see Santa in the Mall?

- Five year study of 150-300 children/year waiting in line to see Santa: 58-82% were indifferent on facial rating scale.⁴⁻⁸
 - More seemed happy one week before Christmas (30-37% happy) versus four weeks before Christmas (10-16%).^{6,7}
 - A More parents seemed happier (82-93%) than children (6-37%).^{5,7}

Reliability very low: One observer, scale used more for pain.⁴⁻⁸

When do children stop believing?

- From 1896-1987, four studies found disbelief started mean age 6.4-8.3 years.^{3,9-11}
- Age is the strongest predictor of belief.^{3,9-11}
 - Gender and 'fantasy' thinking (example imaginary friends) not predictive.^{3,10,11}

Parents' belief¹¹ beyond age ten and parental encouragement³ may predict believing longer.

Are children upset when they stop believing?

- Children had minimal distress transitioning to disbelief.⁹
 - A Most emotional ratings were "<10% intensity" and generally positive.
 - Parents more negative: 40% sad versus 6% glad.
 - B Most children feel future children should be encouraged to believe in Santa.¹²
 - Only 8% of new disbelieving children felt they would not teach their kids about Santa.⁹

Context:

- Other limitations:
 - When lining up to the mall, unclear if the children were seeing the real Santa or someone in a Santa suit.⁴⁻⁸
 - Some research performed in summer,⁹ early fall,¹ or around Easter^{2,11} (known as "Bunny Bias").
- While it may seem unbelievable for one being to visit children all over the globe on a single night, it may also seem unbelievable that academics are paid to write this review.

Authors:

Your Tools for Practice Team (G. Michael Allan, Christina Korownyk, Michael R. Kolber, Scott Garrison, James McCormack, Sharon Nickel, and Adrienne J Lindblad).

Disclosure:

This is a bonus Tools for Practice article sent in the holiday spirit only. It is neither peer reviewed nor certified.

References:

- 1. Amin FM, West AS, Jørgensen CS, et al. Ugeskr Laeger. 2013; 175:3021-3.
- 2. Dixon DJ, Hom HL. Contemporary Educational Psychology. 1984; 9:14-8.
- 3. Prentice NM, Manosevitz M, Hubbs L. Am J Orthopsychiatry. 1978; 48:618-28.
- 4. Trinkaus J. Psychol Rep. 2004; 95(2):587-8.
- 5. Trinkaus J. Psychol Rep. 2005; 96(3 Pt 2):1022-4.
- 6. Trinkaus J. Psychol Rep. 2006; 99(3):993-6.
- 7. Trinkhaus J. Psychol Rep. 2007; 101(3 Pt 1):779-83.
- 8. Trinkaus J. Psychol Rep. 2008; 103(3):691-4.
- 9. Anderson CJ, Prentice NM. Child Psychiatry Hum Dev. 1994;25:67-84.
- 10. Prentice NM, Schmechel LK, Manosevitz M. J Am Acad Child Psychiatry. 1979; 18:658-67.
- 11. Cyr C. CMAJ. 2002; 167:1325-7.
- 12. Nelms BC. J Pediatr Health Care. 1996; 10:243-4.

Tools for Practice is a biweekly article summarizing medical evidence with a focus on topical issues and practice modifying information. It is coordinated by G. Michael Allan, MD, CCFP and the content is written by practising family physicians who are joined occasionally by a health professional from another medical specialty or health discipline. Each article is peer-reviewed, ensuring it maintains a high standard of quality, accuracy, and academic integrity. If you are not a member of the ACFP and would like to receive the TFP emails, please sign up for the distribution list at http://bit.ly/signupfortfp. Archived articles are available on the ACFP website.

This communication reflects the opinion of the authors and does not necessarily mirror the perspective and policy of the Alberta College of Family Physicians.