

# Drugs and Therapeutics Backgrounder

## Proton Pump Inhibitor (PPI) Deprescribing

### References:

1. Paquette A. Top Drugs of 2013 [Internet]. Canadian Healthcare Network. Rogers Digital Media; 2014 [cited 2016 Apr 11]. Retrieved from: <http://www.canadianhealthcarenetwork.ca/pharmacists/news/drug-news/top-drugs-of-2013-24773>
2. Drug Use in Seniors on Public Drug Programs in Canada [Internet]. Canadian Institute for Health Information; 2014 [cited 2016 Apr 11]. Retrieved from:  
[https://secure.cihi.ca/free\\_products/drug\\_use\\_in\\_seniors\\_on\\_public\\_drug\\_programs\\_2012\\_en\\_web.pdf](https://secure.cihi.ca/free_products/drug_use_in_seniors_on_public_drug_programs_2012_en_web.pdf)
3. Forgacs I, Loganayagam A. Overprescribing proton pump inhibitors. BMJ 2008;336:2. DOI: 10.1136/bmj.39406.449456.BE
4. RxFiles Newsletter. Approaches for stopping or dose reduction of PPIs in those who may not need lifelong treatment. [cited 2016 April 11]. Retrieved from: <http://www.rxfiles.ca/rxfiles/uploads/documents/PPI-deprescribing-newsletter.pdf>
5. Khan M, Santana J, Donnellan C, Preston C, Moayyedi P. Medical treatments in the short term management of reflux esophagitis. Cochrane Database Syst Rev. 2007 Apr 18;(2):CD003244
6. Lanza FL et al. Guidelines for prevention of NSAID-related ulcer complications. Am J Gastroenterol. 2009 Mar;104(3):728-38.
7. Kwok CS, Arthur AK, Anibueze CI, Singh S, Cavallazzi R, Loke YK. Risk of Clostridium difficile infection with acid suppressing drugs and antibiotics: meta-analysis. Am J Gastroenterol. 2012 Jul;107(7):1011-9.
8. Leonard J, Marshall JK, Moayyedi P. Systematic review of the risk of enteric infection in patients taking acid suppression. Am J Gastroenterol. 2007 Sep;102(9):2047-56.
9. Linsky A, Gupta K, Lawler EV, Fonda JR, Hermos JA. Proton pump inhibitors and risk for recurrent Clostridium difficile infection. Arch Intern Med. 2010 May 10;170(9):772-8.
10. Khalili H, Huang ES, Jacobson BC, Camargo CA Jr, Feskanich D, Chan AT. Use of proton pump inhibitors and risk of hip fractures in relation to dietary and lifestyle factors: a prospective cohort study. BMJ. 2012 Jan 30;344:e372.
11. Laheij RJ, Sturkenboom MC, Hassing RJ, Dieleman J, Stricker BH, Jansen JB. Risk of community-acquired pneumonia and use of gastric acid-suppressive drugs. JAMA. 2004 Oct 27;292(16):1955-60.
12. Eurich DT, Sadowski CA, Simpson SH, Marrie TJ, Majumdar SR. Recurrent community-acquired pneumonia in patients starting acid-suppressing drugs. Am J Med. 2010 Jan;123(1):47-53
13. Jung SB, Nagaraja V, Kapur A, Eslick GD. Association between B12 deficiency and long-term use of acid-lowering agents: a systematic review and meta-analysis. Intern Med J. 2015 Apr;45(4):409-16.
14. Armstrong D et al. Canadian Consensus Conference on the management of gastroesophageal reflux disease in adults – Update 2004. Can J Gastroenterol 2005 Jan;19(1):15
15. Choosing Wisely Canada, Wintemute K. Bye-Bye, PPI. A toolkit for deprescribing proton pump inhibitors in EMR-enabled primary care settings. [cited 2016 Apr 11]. Retrieved from: [http://www.choosingwiselycanada.org/wp-content/uploads/2016/04/CWC\\_PPI\\_Toolkit\\_v1.0\\_2016-03-31.pdf](http://www.choosingwiselycanada.org/wp-content/uploads/2016/04/CWC_PPI_Toolkit_v1.0_2016-03-31.pdf)
16. Pace F, Tonini M, Pallotta S, Molteni P, Porro GB. Systematic review: maintenance treatment of gastroesophageal reflux disease with proton pump inhibitors taken 'on demand'. Aliment Pharmacol Ther. 2007 Jul 15;26(2):195-204.
17. Tjia J, Rothman MR, Kiely DK, Shaffer ML, Holmes HM, Sachs GA, Mitchell SL. Daily medication use in nursing home residents with advanced dementia. J Am Geriatr Soc. 2010 May;58(5):880-8.