

## Propositions belonging to the thesis

# Screening for and surveillance of Barrett's esophagus: a cost-effectiveness assessment

1. Decision modeling is the best alternative, when randomized clinical trials are no longer deemed ethical or feasible to evaluate and compare different Barrett's esophagus surveillance strategies. (This thesis)
2. Surveillance guidelines for Barrett's esophagus should include separate recommendations by gender and comorbidity level of patients for the optimal age to stop surveillance. (This thesis)
3. Incentives should be developed for physicians to adhere more to the clinical guidelines to eliminate the policy-practice gap in Barrett's esophagus management. (This thesis)
4. Barrett's esophagus patients with low-grade dysplasia should receive Endoscopic Eradication Therapy if low-grade dysplasia is confirmed by another endoscopy at two months after first diagnosis. (This thesis)
5. Willingness-to-pay thresholds need to be reconsidered along with potential shifts in cost-effectiveness estimates if unrelated health effects and associated costs are considered in cost-effectiveness analyses. (This thesis)
6. Artificial intelligence-based diagnostic systems should be used to detect esophageal cancer more accurately. (Horie Y, et al. *Gastrointestinal Endoscopy* 2019)
7. Prevention and control of non-communicable disease during COVID-19 pandemic is essential, particularly in Europe. (Kluge HHP, et al. *Lancet* 2020)
8. Interdisciplinary papers get fewer citations than disciplinary papers within the first three years, but more over 13 years, which means they have a greater impact in long term. (Hejazi A. *The Wiley Network* 2020, van Norden R. *Nature* 2015)
9. Universal health coverage can reduce cancer deaths and disparities. (Colditz GA, et al. *The Lancet* 2016)
10. 'Digital transformation of health services' will have a fundamental impact on health care services in the future including cancer care. (European Commission 2019)
11. Human beings are members of a whole, in creation of one essence and soul. If one member is afflicted with pain, other members uneasy will remain. If you have no sympathy for human pain, The name of human you cannot retain. (Saadi Shirazi (1193-1291), *Gulistan (The Rose Garden)* (Book-1258), Chapter 1, story 10, Translator: Arianpour)

**Amir Omidvari**  
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