

# 1 Appendix A. Search strategy

## 1.1 Search queries basic elements:

1. Basic parts:
  - (a) Cancer
  - (b) Simulation
2. Modality perspective:
  - (a) Screening
  - (b) Treatment or therapy
  - (c) Prevention
3. Cancer types:
  - (a) Lung
  - (b) Cervical
  - (c) Breast
  - (d) Colorectal
  - (e) Prostate

## 1.2 Idea

Type 1 queries: We have to ensure, that published model has at least (two modalities with any cancer type) Or (two cancer types inside with any modality). With this type of queries we'll get models with broad functionality.

Type 2 queries: Published models with narrow functionality. Query with one modality and one cancer type. Then we exclude from Group 2 everything that is in Group 1.

## 1.3 Terms

### Main Terms in Pubmed syntax:

1. ("Neoplasms"[Mesh Terms:exp] OR "Cancer"[tw] OR "neoplasm"[tw] OR "tumor"[tw] OR "tumour"[tw] OR "carcinoma"[tw])
2. ("Artificial Intelligence"[Mesh Terms:exp] OR "Nonlinear Dynamics"[Mesh Terms:exp] OR "Models, Statistical"[Mesh Terms:exp] OR "Markov Chains"[Mesh Terms] OR "Numerical Analysis, Computer-Assisted"[Mesh Terms] OR "Simulation" OR "markov" OR microsimul\*)

### Modality terms:

3. ("Primary Prevention"[Mesh Terms:exp] OR "prevention" or "vaccination" OR "Vaccination"[Mesh Terms:exp])
4. ("Early Detection of Cancer"[Mesh Terms:exp] OR screen\* OR "early detection")
5. ("Combined Modality Therapy"[Mesh Terms:exp] or "chemotherapy" or "radiotherapy" or "irradiation" or "hormon\*" or "adjuvant" or "neoadjuvant" or "surgery" or "resection")

### Cancer type terms:

6. ("Breast Neoplasms"[Mesh Terms:exp] OR "breast" OR mammogr\* OR "Mammography"[Mesh Terms:exp])
7. ("Prostatic Neoplasms"[Mesh Terms:exp] OR prostat\* OR "psa" OR "Prostate-Specific Antigen"[Mesh Terms:exp])
8. ("Uterine Cervical Neoplasms"[Mesh Terms:exp] OR cervi\* OR "hvp" OR papillomavir\* OR "Papanicolaou Test"[Mesh Terms:exp] OR "Human Papillomavirus DNA Tests"[Mesh Terms:exp] OR "colposcopy" OR "Colposcopy"[Mesh Terms:exp] )
9. ("Lung Neoplasms"[Mesh Terms:exp] OR "lung" OR pulmon\* OR pneumon\* OR "LDCT" )

10. ("Colorectal Neoplasms"[Mesh Terms:exp] OR "colorectal" OR colon\* OR "crc" OR rect\* OR "occult" OR sigmo\* "Occult Blood"[Mesh Terms:exp] ),

#### **NOT terms:**

11. NOT "Radiographic Image Interpretation, Computer-Assisted"[Mesh Terms] NOT "Clinical Trials as Topic"[Mesh Terms] NOT "Diagnostic Tests, Routine"[Mesh Terms] NOT "Clinical Trial"[pt] NOT "Randomized Controlled Trial"[pt] NOT "Comparative Study"[pt] NOT "Physiological Phenomena"[Mesh Terms:exp] NOT "Cell Physiological Phenomena"[Mesh Terms:exp] NOT "Randomized Controlled Trials as Topic"[Mesh Terms] NOT "Logistic Models"[Mesh Terms] NOT "Robotics"[Mesh Terms:exp] NOT "Image Processing, Computer-Assisted"[Mesh Terms:exp] NOT "genetics"[sh] NOT "diagnostic imaging"[sh] NOT "metabolism"[sh] NOT "Controlled Clinical Trial"[pt] NOT "Guideline"[pt] NOT "Randomized Controlled Trial"[pt] NOT "Case Reports"[pt]

## **1.4 Queries type 1**

### **Outer groups query**

1 AND 2 AND 4 AND Y; (Y in [6, 10])

Example:

1 AND 2 AND 4 AND 6

## **1.5 Queries type 2**

### **Cancer type variation query**

1 AND 2 AND (3 OR 4 OR 5 ) AND ((6 AND 7) OR (6 AND 8) OR (6 AND 9) OR (6 AND 10) OR (7 AND 8) OR (7 AND 9) OR (7 AND 10) OR (8 AND 9) OR (8 AND 10) OR (9 AND 10))

*QUERY DECOMPOSED IN 30 QUERIES:*

1 AND 2 AND (X) AND (Y AND Z); X in [3, 5], Y in [6, 9], Z in [7, 10]

Example:

1 AND 2 AND 4 AND (6 AND 7)

### **Modality variation**

1 AND 2 AND ((3 AND 4) OR (3 AND 5) OR (4 AND 5) ) AND (6 OR 7 OR 8 OR 9 OR 10)

*QUERY DECOMPOSED IN 15 QUERIES:*

1 AND 2 AND (X AND Y) AND Z; X in [3, 4], Y in [4, 5], Z in [6, 10]

Example:

1 AND 2 AND (4 AND 5) AND 6

## **1.6 WOS and Scopus search remarks**

WOS and Scopus do not deal with "Mesh Terms", thus, all this terms and their synonyms were searched in titles, abstracts and keywords or excluded if they were already included for general search in query.

## 2 Appendix B. Additional Automatic Filtering

### 2.1 Was additional refinements

Refined by: PUBLICATION YEARS: ( 2018 OR 2010 OR 2002 OR 2017 OR 2009 OR 2001 OR 2016 OR 2008 OR 2000 OR 2015 OR 2007 OR 1999 OR 2014 OR 2006 OR 1998 OR 2013 OR 2005 OR 2012 OR 2004 OR 2011 OR 2003 ) AND WEB OF SCIENCE CATEGORIES: ( ONCOLOGY OR PUBLIC ENVIRONMENTAL OCCUPATIONAL HEALTH OR HEALTH CARE SCIENCES SERVICES OR MEDICAL INFORMATICS OR STATISTICS PROBABILITY OR HEALTH POLICY SERVICES OR COMPUTER SCIENCE INTER-DISCIPLINARY APPLICATIONS )

### 2.2 List of terms for automatic filtering (if abstract contains more than 5 uses of any of this terms)

receptors, inhibitors, pharmacophore, compound, virtual screen, derivativ, prolifer, apoptosis, electromagnetic, antenna, breast phantom, antagonists, kinase, nanocomposite, methylthiophene, phosphate, sequenc, spectroscopy, optic, laser, radio, radia, wavelength, nucleotide, microwave, thermoacoustic, interferogram, 3d, geometrical, image, imaging, gene, dose, guidelin, computer-aided, metabolism, peptide, dosimetr, catalytic, robotics, dementia, fibrobla, stroke, high-dose, low-dose, high dose, low dose, pharmacokin, concentrat, ionizat

### 2.3 NLP record filtering

Procedure:

1. At first 470 records were checked manually to create learning sample:
  - Abstract
  - Title
  - Keywords
  - Authors(126 of them were manually evaluated as eligible.)
2. For every record:
  - (a) All text information was combines in one text and stemmed
  - (b) Term Frequency vectorization was applied
  - (c) Most frequent and less frequent terms were excluded from vectorization. Parameters of boundaries were optimized to get best result on test sample.
3. Resulted vectors were divided randomly to learning and test sample. Learning sample - 298, testing - 172.
4. Several classification algorithms like (SGDClassifier, Random Forest, SVM, ) were applied to classify records. All of them has approximately same results with AUC ROC (0.9-0.95).
5. The final classifier was chosen with Sensitivity = 1 and maximal possible Specificity.
6. The resulted classifier will be applied to the rest records.

### 3 Appendix C. Form for manual abstracts inspection

Keywords are automatically highlighted in the abstracts and some fields are also automatically filled.

Form1

Next

abstract objective: personalized **breast** cancer **screening** has so far been economically evaluated under the assumption of full **screening** adherence. this is the first study to evaluate the effects of nonadherence on the evaluation and selection of personalized **screening** strategies.

**methods:** different adherence scenarios were established on the basis of findings from the literature. a **markov microsimulation** model was adapted to evaluate the effects of these adherence scenarios on three different personalized strategies.

**results:** first, three adherence scenarios describing the relationship between risk and adherence were identified: 1) a positive association between risk and **screening** adherence, 2) a negative association, or 3) a curvilinear relationship. second, these three adherence scenarios were evaluated in three personalized strategies. our results show that it is more the absolute adherence rate than the nature of the risk-adherence relationship that is important to determine which strategy is the most cost-effective. furthermore, probabilistic sensitivity analyses showed that there are risk-stratified **screening** strategies that are more cost-effective than routine **screening** if the willingness-to-pay threshold for **screening** is below us \$60,000.

**conclusions:** our results show that "nonadherence" affects the relative performance of **screening** strategies. thus, it is necessary to include the true adherence level to evaluate personalized **screening** strategies and to select the best strategy. copyright © 2018 international society for pharmacoeconomics and outcomes research (ispor). published by elsevier inc. all rights reserved.

☒ Valid

Year: 2018

Structure  
markov, microsim

Outputs  
cost

Cancer  
breast

Req  
scenarios, adherence, strateg

Modalities  
Early Detection of Cancer, Breast Neoplasms

#### Form fields description

| Field Name | Field Description                                                              |
|------------|--------------------------------------------------------------------------------|
| Valid      | Expert evaluation of article abstract suitability                              |
| Year       | Year of publication                                                            |
| Structure  | Short description of the model exploited in the paper                          |
| Cancer     | Cancer type(s) observed in the paper                                           |
| Outputs    | Measured (calculated) values that presented as the paper scientific results    |
| Req        | Keywords that determine the approach of the described research                 |
| Modalities | Modality of the research and simulation (early detection, prevention, therapy) |

## 4 Appendix D. Full-text paper evaluation checklist

### 4.1 Motivation for quality criteria

We have used a Full-text paper evaluation checklist to assess the quality of studies. Our checklist was based on the general criteria commonly used in systematic reviews. However, the features evaluated in systematic reviews are highly dependent on the nature of the research question. Also, they have to be focused on the specific studied outcomes and everything else must be filtered. We were unable to find any previously developed quality assessment tools that would be applicable for our assessment which is not bound to the specific outcomes.

The NOS was developed for empirical studies with individual level data and it cannot be applied in our paper. The items of the scale are simply not applicable. Cochrane RoB and GRADE as well as ROBANS, ORBIT and AHRQ are also reasonably similar. The closest one, due to our knowledge, was PROBAST but is also intended for assessing studies aimed at developing models for clinical use based on empirical data, i.e. not similar to our scope.

We have to admit that our assessment method has not been validated or created by means of a “delphi” method or other highly elaborated procedures. Nevertheless, we can claim that the two aspects of analysis used as quality indicators (validation and sensitivity analysis), and two items pertaining to reporting (appropriateness and limitations), reflect important features in studies, and represent similar constructs (quality of the study conduct and reporting) as in well-established quality assessment tools. We have also added discussion on this aspect in the limitations of the study.

### 4.2 Automatic part

Automatic data was obtained through the <https://eutils.ncbi.nlm.nih.gov/entrez/> service and from the parsed paper pdfs.

| Field                     | Source     |
|---------------------------|------------|
| Paper Name                | Entrez     |
| Paper Authors(All)        | Entrez     |
| Authors Affiliations(All) | Entrez     |
| Year of publication       | Entrez     |
| Journal                   | Entrez     |
| Mentioned countries       | Paper text |
| Authors Affiliations(All) | Entrez     |
| Cancer type               | Paper text |
| Model type                | Paper text |
| Sensitivity analysis      | Paper text |
| Analysis outputs          | Paper text |

#### 4.2.1 Cancer Type keywords

Keywords are counted and number of terms related to specific cancer type compared to the threshold. If the threshold is exceed, it's considered that the paper is about this cancer type.

1. "cervical"/"cervix uteri"/"cervix"/"hpv"
  - (a) "cytology" or "pap" or "Papanicolaou" or "smear"
  - (b) "colposcopy"
  - (c) "vaccine" or "vaccination" or "valent"
  - (d) "HPV test" or "digene" or "cobas" or "pcr"
2. "colorectal" or "bowel" or "colon" or "rectal" or "sigmoid" or "polyp" or "adenoma"
  - (a) "fobt" or "ifobt" or "fit" or "fecal" or "occult blood" or "Hemoccult"
  - (b) "sigmoidoscopy"
  - (c) "colonoscopy"
3. "breast", "DCIS", "carcinoma in situ"

- (a) "mammograph\*"
  - (b) "ultrasound"
  - (c) "clinical breast" or "CBE"
  - (d) "self-breast" or "self breat" or "SBE"
4. "lung" or "trachea" or "bronch\*"
- (a) "x-ray" or "ldct" or "tomography" or "low-dose" or "low dose"
5. "prostate"
- (a) "mri" or "tomograph\*"
  - (b) "psa" or "prostate-specific" or "antigen"
  - (c) "biopsy"

#### 4.2.2 Model type keywords

| Keyword                     | Term for analysis               |
|-----------------------------|---------------------------------|
| MISCAN                      | MISCAN                          |
| CISNET                      | CISNET Models                   |
| regression                  | regression                      |
| differential eq             | differential eq                 |
| macrosim                    | macrosimulation                 |
| bias model                  | censoring bias model            |
| fuzzy                       | fuzzy model                     |
| stochastic simulation model | stochastic simulation model     |
| discrete event              | discrete event simulation model |
| discrete-event              | discrete event simulation model |
| survival model              | survival model                  |
| life-table                  | survival model                  |
| life table                  | survival model                  |
| survival analysis           | survival model                  |
| microsim                    | microsimulation                 |
| cohort simulation           | cohort simulation               |
| hidden markov               | hidden markov                   |
| hidden-markov               | hidden markov                   |
| markov                      | markov model                    |
| monte                       | Monte Carlo model               |
| decision tree               | Decision Tree model             |
| decision model              | Decision Tree model             |
| decision analytic model     | decision model                  |
| decision analytic           | decision model                  |
| decision-analysis           | decision model                  |
| decision analysis           | decision model                  |

#### 4.2.3 Output keywords

Output keywords are extracted and stored.

1. "life-years" or "LY" or "DALY" or "disability adjusted"
2. "quality-adjusted" or "qaly"
3. "cost-effectiveness"
4. "cost-utility"
5. "cost-benefit"
6. "cost" c,d,e

Windows form was used to extract specific data, which can't be extracted automatically or must be checked

7

## Form fields description

| Field Name                       | Field Description                                                                                                 |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Paper is relevant                | Expert evaluation of the article suitability                                                                      |
| Model name                       | Keywords that shortly describe simulation approach                                                                |
| Model was applied                | Main result of the paper obtained from model simulation                                                           |
| Model was developed              | Main result of the paper is the model itself. Model described in details so it can be reproduced from this paper. |
| Sensitivity analysis             | Sensitivity analysis and its results are discussed in the paper                                                   |
| Limitations discussed briefly    | There are several sentences in the paper about model limitations                                                  |
| Limitations discussed in details | There is highlighted section in which limitations are discussed.                                                  |
| CI and Std                       | Were the results in the paper were presented in the appropriate format?                                           |
| Validation                       | Were the results of model validation presented in the paper?                                                      |
| Overall mark (0-5)               | Expert opinion on the paper consistency                                                                           |

### 4.4 Expert Mark vs. Automatic Mark

The papers are assessed not only by experts. Paper quality is also assessed by algorithm which used less subjective assessment. The results of assessments are combined. Here are the description of the automatic assessment procedure.

1. If model was APPLIED and DEVELOPED in paper:
  - (a) +2 model was validated
  - (b) +1 there were sensitivity analysis
  - (c) +1 Limitations were discussed
  - (d) +1 Results were presented in the appropriate format
2. If model was just DEVELOPED in paper:
  - (a) +2 model was validated
  - (b) +1 Limitations were discussed
  - (c) +2 Results were presented in the appropriate format  
!!! screening assessments are not that important if main result is the model itself.
3. If model was just APPLIED in paper:
  - (a) +2 there were sensitivity analysis
  - (b) +1 Limitations were discussed
  - (c) +2 Results were presented in the appropriate format  
!!! model is considered validated.

### 4.5 Models naming

Authors can give unique names to their models. We've tried to unify model names using keywords which was mentioned in the descriptions of the models. This is our renaming table.

| Authors model naming            | Model unified renaming    |
|---------------------------------|---------------------------|
| markov model                    | cohort level markov model |
| the lung cancer policy model    | cohort level markov model |
| discrete event simulation model | cohort level markov model |
| excel-based model               | cohort level markov model |
| Smoking-Lung Cancer Model       | cohort level markov model |

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| contingent valuation method (cvm) | contingent valuation method (cvm) |
| differential eq                   | D.Eq.                             |
| hpv dynamic mathematical model    | D.Eq.                             |
| differential equations            | D.Eq.                             |
| Dana-Farber                       | D.Eq.                             |
| SCANS (Michigan)                  | D.Eq.                             |
| decision tree analysis            | decision tree model               |
| decision tree model               | decision tree model               |
| estimation method                 | estimation method                 |
| bayesian hierarchical model       | estimation method                 |
| MISCAN                            | individual level markov model     |
| microsimulation                   | individual level markov model     |
| fhcrc model                       | individual level markov model     |
| MISCAN PROSTATE                   | individual level markov model     |
| MISCAN FADIA                      | individual level markov model     |
| wisconsin breast cancer model     | individual level markov model     |
| simcrc                            | individual level markov model     |
| prohta simulation                 | individual level markov model     |
| china lung cancer policy model    | individual level markov model     |
| cervivac model                    | individual level markov model     |
| policy1-cervix, hpv-advise        | individual level markov model     |
| CRC-SPIN                          | individual level markov model     |
| UMN-Cervical                      | individual level markov model     |
| BCOS                              | individual level markov model     |
| Harvard cervical cancer model     | individual level markov model     |
| LCPM (MGH)                        | individual level markov model     |
| LCOS                              | individual level markov model     |
| PSAPC (FHCRC)                     | individual level markov model     |
| monte carlo model                 | monte carlo                       |
| queueing network model            | queueing network                  |
| regression                        | regression                        |
| risk model                        | risk model                        |
| probability calculation           | stochastic                        |
| convolution model                 | stochastic                        |
| stochastic model                  | stochastic                        |
| maximum likelihood model          | stochastic                        |
| probability model                 | stochastic                        |
| lz model                          | stochastic                        |
| survival model                    | survival model                    |
| can*trol 2                        | unknown                           |

## 5 Appendix H. Connection graphs

### 5.1 Model by Cancer

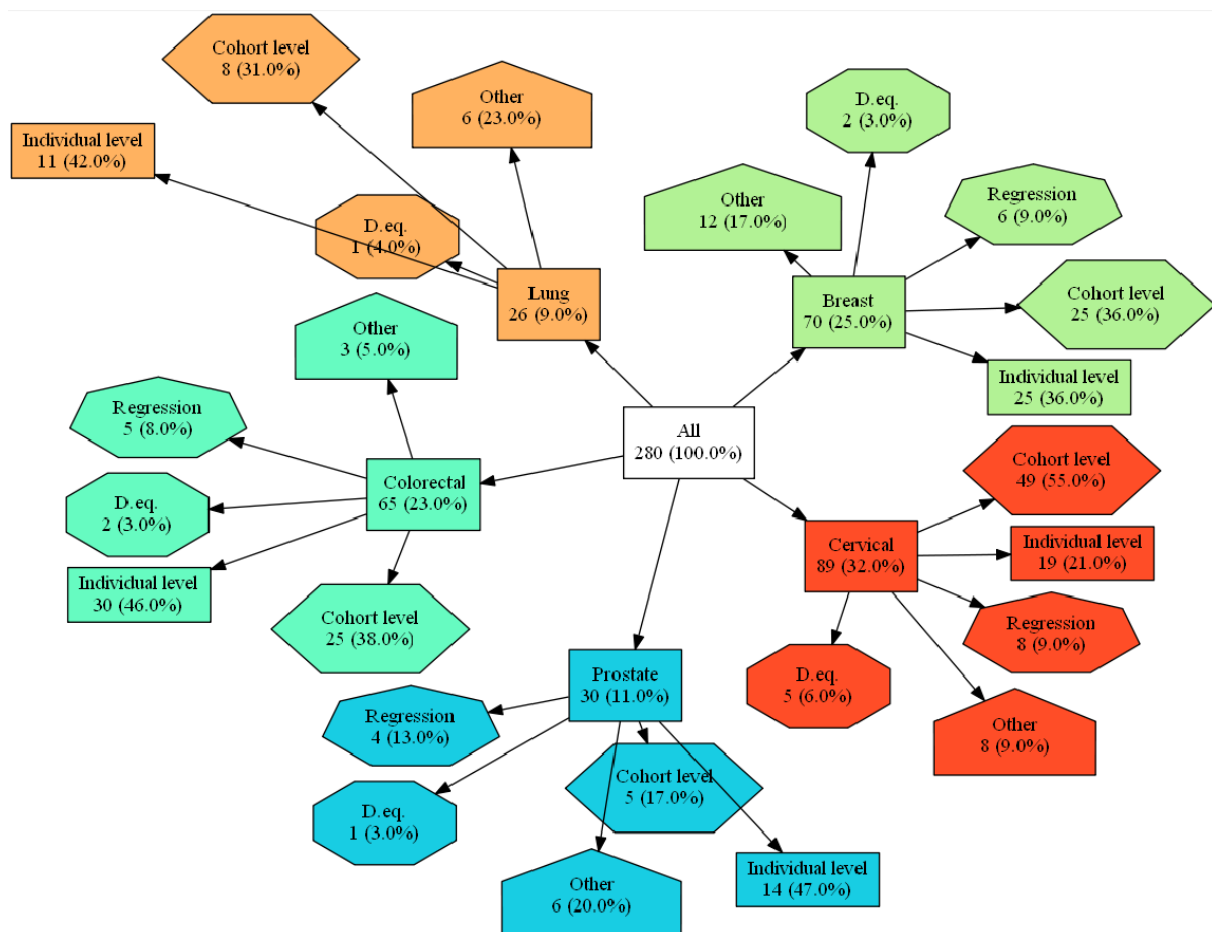


Figure 1: Number of studies in different world parts stratified by world cancer.

## 5.2 Cancer by population world part

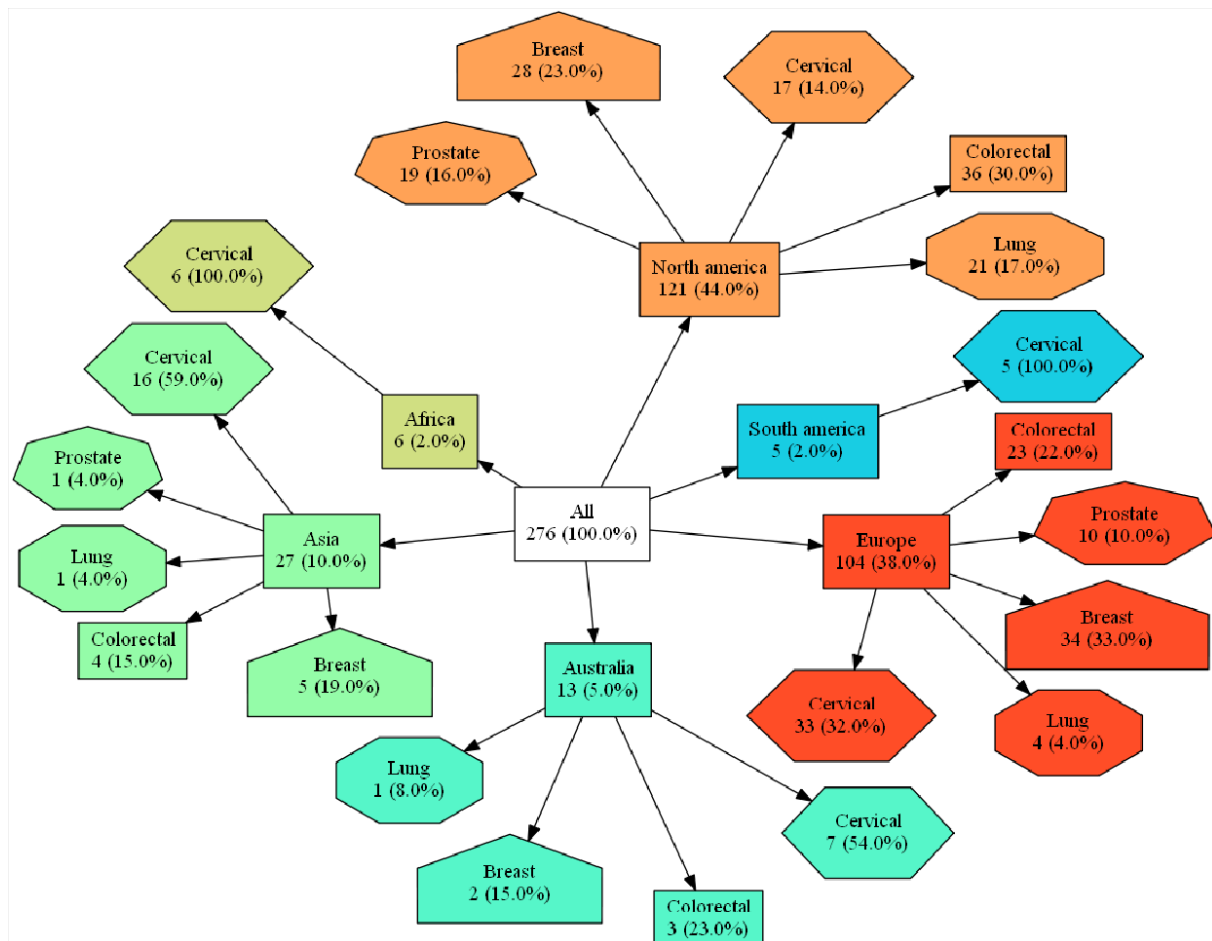


Figure 2: Number of studies in different world parts stratified by world parts.

### 5.3 Studies population geography by year

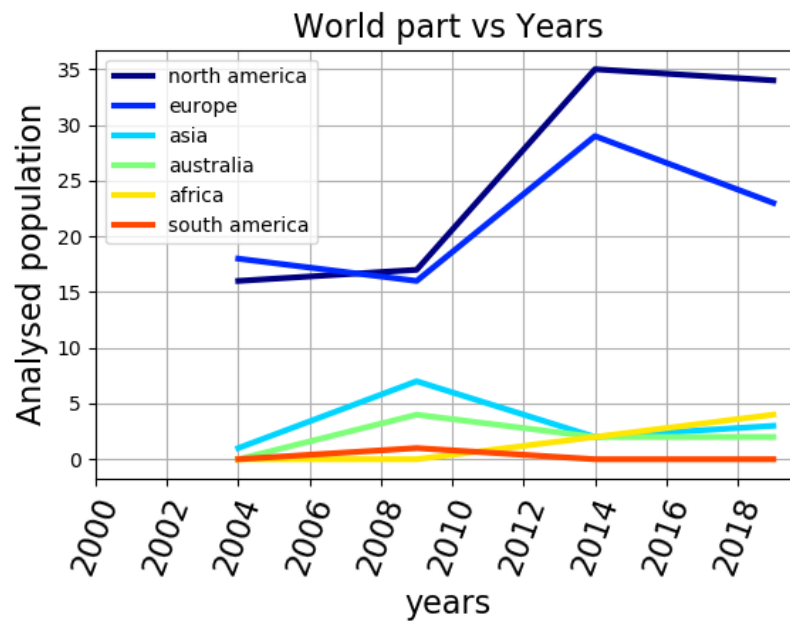


Figure 3: Studies population dynamics. Every point is the number of papers published during previous 5 years.

## 5.4 Studies publications dynamics

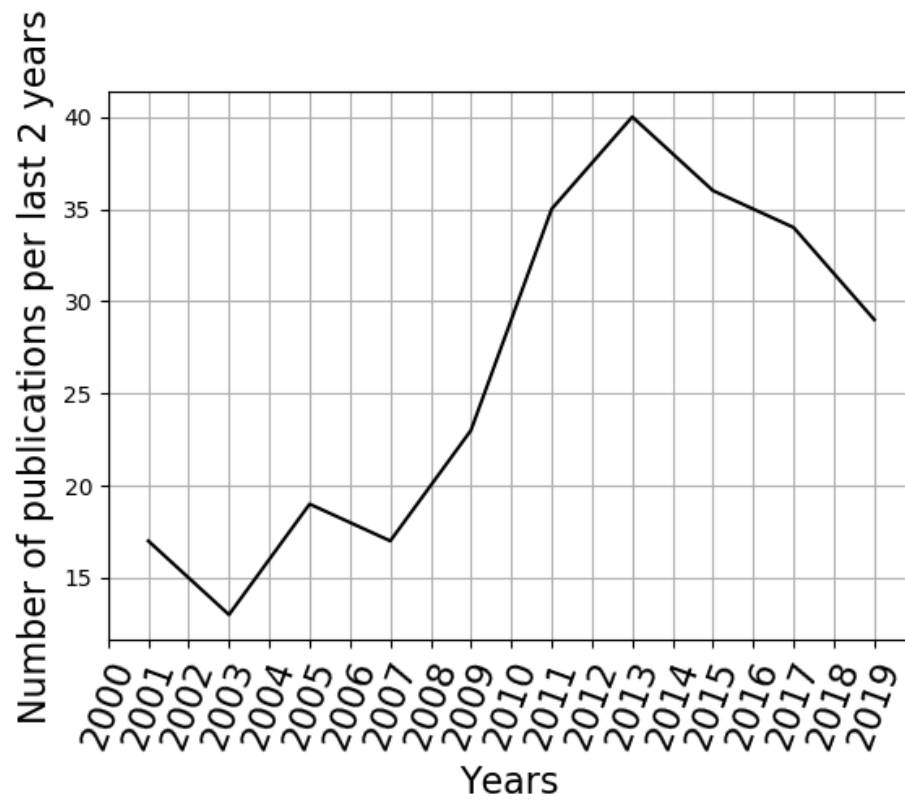


Figure 4: Studies publication dynamics. Every point is the number of papers published during previous 2 years.

## 6 Appendix I. List of chosen and analyzed publications

| <b>Authors</b>                                                                                                                                                                                                                                                                   | <b>Name</b>                                                                                                                                                                                                                                                                      | <b>Year</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Louiza S Velentzis, Michael Caruana, Kate T Simms, Jie-Bin Lew, Ju-Fang Shi, Marion Saville, Megan A Smith, Sarah J Lord, Jeffrey Tan, Deborah Bateson, Michael Quinn, Karen Canfell                                                                                             | How Will Transitioning From Cytology To Hpv Testing Change The Balance Between The Benefits And Harms Of Cervical Cancer Screening? Estimates Of The Impact On Cervical Cancer, Treatment Rates And Adverse Obstetric Outcomes In Australia, A High Vaccination Coverage Country | 2017        |
| Gerrit Draisma, Joost Van Rosmalena                                                                                                                                                                                                                                              | A Note On The Catch-Up Time Method For Estimating Lead Or Sojourn Time In Prostate Cancer Screening                                                                                                                                                                              | 2013        |
| Rutter Carolyn M, Kim Jane J, Meester Reinier G S, Sprague Brian L, Burger Emily A, Zauber Ann G, Ergun Mehmet Ali, Campos Nicole G, Doubeni Chyke A, Trentham-Dietz Amy, Sy Stephen, Alagoz Oguzhan, Stout Natasha, Lansdorp-Vogelaar Iris, Corley Douglas A, Tosteson Anna N A | Effect Of Time To Diagnostic Testing For Breast Cervical And Colorectal Cancer Screening Abnormalities On Screening Efficacy A Modeling Study                                                                                                                                    | 2017        |
| Armaroli P, Gallo F, Bellomi A, Ciatto S, Consonni D, Davi D, Giorgi-Rossi P, Iossa A, Mancini E, Naldoni C, Polla E, Ronco G, Serafini M, Vergini V, Zanier L, Zappa M, Segnan N                                                                                                | Do Women $\geq 50$ Years Of Age Need As Much Screening As Women $\geq 50$ Years After They Have Had Negative Screening Results                                                                                                                                                   | 2008        |
| Linda Sharp, Lesley Tilson, Sophie Whyte, Alan O Ceilleachair, Cathal Walsh, Cara Usher, Paul Tappenden, James Chilcott, Anthony Staines, Michael Barry, Harry Comber                                                                                                            | Using Resource Modelling To Inform Decision Making And Service Planning: The Case Of Colorectal Cancer Screening In Ireland                                                                                                                                                      | 2013        |
| Cathy J Bradley, Iris Lansdorp-Vogelaar, K Robin Yabroff, Bassam Dahman, Angela Mariotto, Eric J Feuer, Martin L Brown,                                                                                                                                                          | Productivity Savings From Colorectal Cancer Prevention And Control Strategies                                                                                                                                                                                                    | 2011        |
| Jeroen J Van Den Broek, Nicolien T Van Ravesteyn, Jeanne S Mandelblatt, Hui Huang, Mehmet Ali Ergun, Elizabeth S Burnside, Cong Xu, Yisheng Li, Oguzhan Alagoz, Sandra J Lee, Natasha K Stout, Juhee Song, Amy Trentham-Dietz, Sylvia K Plevritis, Sue M Moss, Harry J De Koning | Comparing Cisnet Breast Cancer Incidence And Mortality Predictions To Observed Clinical Trial Results Of Mammography Screening From Ages 40 To 49                                                                                                                                | 2017        |
| Gerrit Draisma, Renske Postma, Fritz H Schroder, Theo H Van Der Kwast, Harry J De Koning                                                                                                                                                                                         | Gleason Score Age And Screening Modeling Dedifferentiation In Prostate Cancer                                                                                                                                                                                                    | 2006        |
| K Kerlikowske, P Salzmann, Ka Phillips, Ja Cauley, Sr Cummings                                                                                                                                                                                                                   | Continuing Screening Mammography In Women Aged 70 To 79 Years: Impact On Life Expectancy And Cost-Effectiveness.                                                                                                                                                                 | 1999        |
| Jeff Ching-Fu Hsieh, Susanna M Cramb, James M McGree, Peter D Baade, Nathan Am Dunn, Kerrie L Mengersen                                                                                                                                                                          | Bayesian Spatial Analysis For The Evaluation Of Breast Cancer Detection Methods                                                                                                                                                                                                  | 2014        |
| Van Luijt Pa, Heijnsdijk Ea, Van Ravesteyn Nt, Hofvind S, De Koning Hj                                                                                                                                                                                                           | Breast Cancer Incidence Trends In Norway And Estimates Of Overdiagnosis                                                                                                                                                                                                          | 2016        |
| Ming-Shien Yen, Shan-Lin You, Nicole Ferko, Donna Debicki, Yi-Chen Chen, Cheng-Yang Chou                                                                                                                                                                                         | Estimating The Long-Term Clinical Impact Of Cervical Cancer Vaccination In Taiwan                                                                                                                                                                                                | 2009        |
| Wever Em, Draisma G, Heijnsdijk Ea, De Koning Hj                                                                                                                                                                                                                                 | How Does Early Detection By Screening Affect Disease Progression Modeling Estimated Benefits In Prostate Cancer Screening                                                                                                                                                        | 2011        |
| Elissa M Ozanne, Laura J Esserman                                                                                                                                                                                                                                                | Evaluation Of Breast Cancer Risk Assessment Techniques A Cost-Effectiveness Analysis                                                                                                                                                                                             | 2004        |
| Wong Io, Kuntz Km, Cowling Bj, Lam Cl, Leung Gm                                                                                                                                                                                                                                  | Cost-Effectiveness Of Mammography Screening For Chinese Women                                                                                                                                                                                                                    | 2007        |
| Lee Th, Kim W, Shin J, Park Ec, Park S, Kim Th,                                                                                                                                                                                                                                  | Strategic Distributional Cost-Effectiveness Analysis For Improving National Cancer Screening Uptake In Cervical Cancer A Focus On Regional Inequality In South Korea                                                                                                             | 2018        |

|                                                                                                                                                                                                                      |                                                                                                                                              |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------|
| Matthias Arnold, Anne S Quante                                                                                                                                                                                       | Personalized Mammography Screening And Screening Adherence-A Simulation And Economic Evaluation                                              | 2018 |
| Marshall D, Simpson Kn, Earle Cc, Chu C                                                                                                                                                                              | Potential Cost-Effectiveness Of One-Time Screening For Lung Cancer (Lc) In A High Risk Cohort                                                | 2001 |
| Wu D, Kafadar K, Rosner Gl, Broemeling Ld                                                                                                                                                                            | The Lead Time Distribution When Lifetime Is Subject To Competing Risks In Cancer Screening                                                   | 2012 |
| Meng-Kan Chen, Hui-Fang Hung, Stephen Duffy, Amy Ming-Fang Yen, Hsiu-Hsi Chen                                                                                                                                        | Cost-Effectiveness Analysis For Pap Smear Screening And Human Papillomavirus Dna Testing And Vaccination                                     | 2011 |
| Karnon Jonathan, Jones Roy, Czoski-Murray Carolyn, Srnith Kevin J                                                                                                                                                    | Cost-Utility Analysis Of Screening High-Risk Groups For Anal Cancer                                                                          | 2008 |
| Canfell K, Shi Jf, Lew Jb, Walker R, Zhao Fh, Simonella L, Chen Jf, Legood R, Smith, Nickson C, Qiao Yl                                                                                                              | Prevention Of Cervical Cancer In Rural China Evaluation Of Hpv Vaccination And Primary Hpv Screening Strategies                              | 2011 |
| Sherry Yueh-Hsia Chiu, Nea Malila, Amy Ming-Fang Yen, Sam Li-Sheng Chen, Jean Ching-Yuan Fann, Matti Hakama                                                                                                          | Predicting The Effectiveness Of The Finnish Population-Based Colorectal Cancer Screening Programme                                           | 2017 |
| Reka Pataky, Roman Gulati, Ruth Etzioni, Peter Black, Kim N Chi, Andrew J Coldman, Tom Pickles, Scott Tyldesley, Stuart Peacock,                                                                                     | Is Prostate Cancer Screening Cost-Effective A Microsimulation Model Of Prostate-Specific Antigen-Based Screening For British Columbia Canada | 2014 |
| Uhry Z, Hdelin G, Colonna M, Asselain B, Arveux P, Exbrayat C, Guldenfelds C, Soler-Michel P, Molini F, Trtarre B, Rogel A, Courtial I, Danzon A, Guizard Av, Ancelle-Park R, Eilstein D, Duffy S                    | Modelling The Effect Of Breast Cancer Screening On Related Mortality Using French Data                                                       | 2011 |
| Lefevre E, Hens N, Theeten H, Van Den Bosch K, Beutels P, De Smet F, Van Damme P                                                                                                                                     | Like Mother Like Daughter Mothers History Of Cervical Cancer Screening And Daughters Human Papillomavirus Vaccine Uptake In Flanders Belgium | 2011 |
| Chauvin P, Josselin Jm, Heresbach D                                                                                                                                                                                  | The Influence Of Waiting Times On Cost-Effectiveness: A Case Study Of Colorectal Cancer Mass Screening                                       | 2013 |
| Summer S Han, Kevin Ten Haaf, William D Hazelton, Vidit N Munshi, Jihyoun Jeon, Saadet A Erdogan, Colden Johanson, Pamela M McMahon, Rafael Meza, Chung Yinkong, Eric J Feuer, Harry J De Koning, Sylvia K Plevritis | The Impact Of Overdiagnosis On The Selection Of Efficient Lung Cancer Screening Strategies                                                   | 2017 |
| Lejeune C, Arveux P, Dancourt V, Fagnani F, Bonithon-Kopp C, Faivre J                                                                                                                                                | A Simulation Model For Evaluating The Medical And Economic Outcomes Of Screening Strategies For Colorectal Cancer                            | 2003 |
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| J Michaelson, E Halpern, Db Kopans                                                                                                                                                                                   | Breast Cancer: Computer Simulation Method For Estimating Optimal Intervals For Screening.                                                    | 1999 |
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