Attachment

| Search | Query | Items |
|--------|---|--------|
| | | found |
| #3 | Search (#1 and #2) Filters: Full text; Publication date from 2017/05/01 to | 164 |
| | 2020/04/17; Humans; English | |
| #2 | Search ("decision-analysis"[All fields] or "decision analysis"[All fields] or | 33,711 |
| | "decision-analytic"[All fields] or "decision analytic"[All fields] or "decision | |
| | tree"[All fields] or "markov model"[All fields] or "state-transition model"[All | |
| | fields] or "discrete event simulation"[All fields] or "agent-based"[All fields] | |
| | or "systems dynamics"[All fields] or "system dynamics"[All fields] or | |
| | "dynamic modeling"[All fields] or "dynamic model"[All fields] or | |
| | "microsimulation"[All fields] or "cohort simulation"[All fields]) | |
| #1 | Search ((("early economic evaluation" or "early health technology | 8,435 |
| | assessment" or "early hta" or "early technology assessment" or "early | |
| | assessment" or "early evaluation" or "early benefit assessment" or "early | |
| | cost-effectiveness" or "early CEA" or "early health economic" or | |
| | "headroom") OR ((hypothetical or "R&D" or "research and development" or | |
| | approval or preapproval or emerging) AND (health technology | |
| | assessment[mesh] or cost-benefit[mesh])))) | |

Table 3: Search code PubMed and related hits

Table 4: Search code Embase and related hits

| Search | Query | Items |
|--------|---|--------|
| | | found |
| #5 | #4 AND (2017:py OR 2018:py OR 2019:py OR 2020:py) | 72 |
| #4 | #3 AND [english]/lim AND ([embase]/lim OR [embase classic]/lim) AND | 279 |
| | [humans]/lim AND [article]/lim | |
| #3 | #1 AND #2 | 598 |
| #2 | 'decision-analysis' OR 'decision analysis' OR 'decision-analytic' OR 'decision analytic' OR 'decision tree' OR 'markov model' OR 'state-transition model' OR 'discrete event simulation' OR 'agent-based' OR 'systems dynamics' OR 'system dynamics' OR 'dynamic modeling' OR 'dynamic model' OR 'microsimulation' OR 'cohort simulation' | 54,908 |
| #1 | 'early economic evaluation' OR 'early health technology assessment' OR 'early hta' OR 'early technology assessment' OR 'early assessment' OR 'early evaluation' OR 'early benefit assessment' OR 'early benefit assessment' OR 'early cost-effectiveness' OR 'early cea' OR 'early health economic' OR 'headroom' OR ((hypothetical OR 'r&d' OR 'research and development'/exp OR 'research and development' OR approval OR preapproval OR emerging) AND (('health'/exp OR health) AND ('technology'/exp OR technology) AND ('assessment'/exp OR assessment) OR 'cost benefit'/exp OR 'cost benefit')) | 16,866 |

Table 5: Therapeutic devices – model characteristics

| Publication | Model Type | Effect data | Mechanism of effect | Cost data | Uncertainty; Vol Analysis | Elicitation Calibration Validation |
|--------------------|--|--|---|---|---|---|
| Mital 2019 [39] | Decision tree & Markov model; cohort simulation | Weight loss, discontinuation, replacement, complication rates: from 4 years of post- market registry data, 200 patients, 47% of which discontinued over 4 years; for comparators: recent meta- analysis; disutility of new procedure: assumption | Lower weight loss but less procedural disutility than competitors; initial procedure less costly but affords regular replacement | Direct medical cost; initial procedure, replacement and complication cost: mostly based on assumptions | DSA for range of parameters but not disutilities; PSA (not clear which variables were included); no Vol | E: no C: no V: no |
| Namin 2019 [40] | Systems dynamics model for market adoption over time under reimbursement scenarios | 90 day readmission rates based on retrospective study of 235 patients (authors consultants for ConforMIS) and on short term evidence on mechanical performance (equations to derive numbers not found); duration of rehabilitation: assumption; long-term evidence lacking; no RCT yet | Fewer revision surgeries (adverse events), shorter rehabilitation, higher cost of device; long-term savings not relevant for hospitals because reimbursement rate is a bundle payment for 69 days of tx; therefore exploration of reimbursement scenarios | Direct medical costs: cost of product (product, surgeons, operating room), recovery (in hospital, rehabilitation, at home), 90 day readmission, 3 year revision surgery; assumption: custom knee implant 25% more costly | Scenarios with 4 reimbursement schemes; PSA for wide range of many parameters; no Vol | E: no C: for procedures over time V: for procedures over time |

| Publication | Model Type | Effect data | Mechanism of effect | Cost data | Uncertainty; Vol Analysis | Elicitation Calibration Validation |
|----------------------|---|---|--|--|--|--|
| Wenker 2019 [41] | Decision tree; All parameters except the cohort varied were assumed effect simulation parameters from previous procedures at the local medical center (same for intervention and comparator) | Assumption: reduced recurrence rate for new intervention (assumed, varied), no difference in complications; direct procedural cost are higher for MRI-guided procedures, procedure time will be similar after short learning phase | Direct medical cost, no capital cost; additional MRI cost from diagnostic cardiac MRI at local medical center; other cost data from national data bases | Threshold analysis for minimum effect needed for cost-effectiveness; DSA for all model parameters no Vol | E: no C: no V: no | |
| Widjaja 2019 [42] | Decision-tree plus state transition model; microsimulation | Mortality after procedure: 1 retrospective study of 234 patients for intervention (some authors consultants for Medtronic); probability seizure free in first year after procedure: same study as above and published review; adverse events (complications, death during procedure), utilities from study on comparator | Inferior effect on seizures but lower risk of death after procedure; probabilities of subsequent treatment differ also, shorter hospital stay for new intervention, high investment cost for new intervention | Direct medical cost: capital costs and maintenance for system from manufacturer; other detailed resource use and costs from patient-level cost study and reimbursement tables | One way DSA for most parameters, threshold analyses, scenario analyses, PSA; EVPI, EVPPI for the probabilities of events and progression after tx and for utilities | E: no C: no V: no |

C: calibration; DSA: deterministic sensitivity analysis; E: elicitation; EVPI: expected value of perfect information; EVPPI: expected value of partial perfect information; MRI: magnetic resonance imaging; PSA: probabilistic sensitivity analysis; RCT: randomized controlled trial; tx: treatment; V: validation; VoI: value of information

| Publication Country, Study type | Device | Stage of development; Purpose of study | Population | Intervention; Comparators | Outcomes | Time horizon, Perspective | Funding |
|--|---|---|---|--|---|---------------------------------|---|
| Almario 2018 [43] US CUA, BIA | Single biomarker test for diagnosis of irritable bowel syndrome with diarrhea; mainly for rule-out | Hypothetical; thresholds for accuracy and cost to achieve cost-effectiveness | Patients meeting Rome IV criteria for irritable bowel syndrome with diarrhea | I: Biomarker test first, immediate tx for positive result, upfront further diagnostic testing for negative results; C: usual care: immediate tx for all and further diagnostic testing for non-responders | QALYs, cost, ICUR, price and accuracy thresholds for cost- effective- ness, budget impact | 1 year, health care payer | Manufacturer (Common- wealth Diagnostics International, Inc) |
| Campos 2017 [44] 3 low and middle income countries CEA | Diagnostic test; hypothetical point- of-care test (DNA test) for HPV (Example GeneXpert Omni) | Hypothetical, value of high investment evaluated; determine maximum cost for new test to be cost- effective | Women of the general population | I: HPV DNA screening (1 visit, test & tx at same visit) 3 times in a woman's lifetime at ages 30, 35, 40; C: same screening schedule but 2 visits, 1 for test, 1 for tx | Lifetime risk of cancer, LYs, lifetime cost, INMB, ICER | Lifetime, society | Bill & Melinda Gates Foundation (private foundation) |

Table 6: Diagnostic devices – device, stage of development and framework of the model

| Publication Country, Study type | Device | Stage of development; Purpose of study | Population | Intervention; Comparators | Outcomes | Time horizon, Perspective | Funding |
|---|--|--|--|---|--|--|---------------------|
| Critselis 2018 [45] Europe CUA | Single biomarker (CKD273 urinary peptide classifier); diagnostic test for early kidney disease in diabetes | Recently developed, prognostic ability of marker was shown, no clinical application yet; assess potential value of biomarker guided tx, find target population for cost- effectiveness | Diabetic patients, age 50; additional: high risk group with at least one more risk factor; low risk group without other risk factors | I: Annual screening with new biomarker and intensified tx if positive; C: annual screening with SOC (urinary albumin excretion) and intensified tx if positive | QALYs, cost, ICUR | Lifetime (=40 years), health care payer | Public |
| Degeling 2017 [46] Netherlands CUA | Test for response monitoring; circulating tumor cells as response marker for guiding tx of prostate cancer | Approved for disease monitoring but first trial as response marker only recently started; simulation to fill data gap | Patients with metastatic castration- resistant prostate cancer | I: Response monitoring by circulating tumor cells; C: Response monitoring by PSA and bone scan (SOC) | QALYs, cost, ICUR, NHB, NMB | Lifetime, health care payer | Public |
| Doble 2017 [47] Australia CUA | Predictive multiplex targeted sequencing pharmacogenomics (PGx) test (general) for response to 4 th line lung cancer tx | Test accuracy data from study on UW-OncoPlex, a next generation sequencing assay (can be ordered from the lab); early value assessment in an iterative process along developments in PGx testing | Patients with lung cancer, eligible for 4 th line tx | I: Multiplex targeted sequencing and tx only for positive & actionable; C1: no testing and chemotherapy, C2: no testing and supportive therapy | ICUR, LYs, QALYs, cost, EVPI, EVPPI | 10 years, health care payer | Public, academia |

| Publication Country, Study type | Device | Stage of development; Purpose of study | Population | Intervention; Comparators | Outcomes | Time horizon, Perspective | Funding |
|---|--|--|---|---|---|--|--|
| Jin 2019 [48] UK CUA | Predictive test for response to 2 nd line psychotic tx for patients with schizophrenia | Hypothetical; find accuracy and price for cost-effectiveness | Patients with schizophrenia who failed a first-line antipsychotic | I: New test and 2nd line antipsychotic if test is positive, if negative immediate clozapine; C: 2nd line antipsychotic for all, clozapine only after this fails | QALYs, cost, increment al cost savings & QALYs | Lifetime, health care payer & society | Public |
| Khoudigian- Sinani 2017 [49] Canada CEA | Diagnostic test (multimarker & artificial intelligence for predicting risk of oral cancer), "Straticyte™" | On the market, not reimbursed by public payers; CEA should inform manufacturer, healthcare system, and individual patient whether investing in this product is worthwhile | Age >30, biopsy for oral cancer taken | I: Biomarker test + histology, excision when high risk; C: histology only, excision when high risk | Cancer cases avoided, total cost, ICER | 5 years, private payer and patient | MITACS Accelerate Program (Government and Proteocyte Diagnostic Inc) |
| Kip 2018 [35] Netherlands CEA | Diagnostic test; combination of 3 biomarkers for rule-out of non-ST elevation myocardial infarction (NSTEMI) | Type of test, not one specific product, test type available, triple test hypothetical; eliciting expert opinion on clinical utility of a new test | Patients with suspected NSTEMI in the emergency room | I1: new test alone at admission (t0) only, I2: new test at t0 and high- sensitivity troponin (hsTn) test after 2 hours (t2), I3: new test at t0 and hsTn at t2 and t6; C: hsTn at t0, t2, t6 | Time to discharge, cost, ICER (negative) | 6 hours; hospital | No information found |
| Kluytmans 2019 [50] Netherlands CUA | Diagnostic biomarker test for primary aldosteronism, hypothetical | Hypothetical; find accuracy and price for cost-effectiveness | Age=40, resistant hypertension | Hypothetical new test; SOC: aldosterone-to-renin ratio | QALYs, costs, CE thresholds for price, accuracy | Lifetime/ 10 years/ 20 years, society | None declared |

| Publication Country, Study type | Device | Stage of development; Purpose of study | Population | Intervention; Comparators | Outcomes | Time horizon, Perspective | Funding |
|--|--|---|---|--|--|---|--|
| Lansdorp- Vogelaar 2018 [51] Netherlands CEA | Biomarker assay for colorectal cancer screening | Hypothetical; find accuracy and price for cost-effectiveness | Age 55–75, average risk for colorectal cancer | I: 84 screening strategies (start age, stop age, intervals) using a new test (35 different sets of test characteristics); C: optimal fecal immunochemical test screening strategy as determined in previous study | LYs, cost per partici- pant, ICER; threshold price for test with certain character- istics | Lifetime, modified societal perspective (includes direct costs and patient time costs) | Not reported |
| Lotan 2018 [52] US CEA | Predictive single biomarker test for guiding neoadjuvant chemotherapy for muscle-invasive bladder cancer | Tests like this are on the market, some initial data, prognostic value for response shown for some; assess the cost- effectiveness, create a basis for incorporating biomarkers into clinical decision making | Patients with muscle-invasive bladder cancer, eligible for cisplatin-based neoadjuvant chemotherapy | I: Biomarker-guided NAC followed by radical cystectomie (RC); C1: unselected neoadjuvant chemotherapy followed by RC; C2: RC alone | LYs, 5 year survival, costs, ICER | 5 years, health care payer | Public |
| Mitchell 2018 [53] Canada CUA | Diagnostic pharmacogenomics (PGx) test for rule- out of myopathy | Hypothetical; find accuracy and price for cost-effectiveness | Age >65, history of myocardial infarction or stroke, on statins, with muscle pain | I: PGx test for true myopathy and continuation on statins for negative result; C1: no test and immediate stop of statin use; C2 (sensitivity analysis): SOC test | ICUR, QALYs, cost | Lifetime, health care payer | Genome Canada, Genome Quebec (Public-private partnership) |

| Publication Country, Study type | Device | Stage of development; Purpose of study | Population | Intervention; Comparators | Outcomes | Time horizon, Perspective | Funding |
|---|---|--|---|---|--|----------------------------------|--|
| Terjesen 2017 [54] US CEA | Single-use flexible video bronchoscope (Ambu ^R aScope [™] 3, Monitor Ambu ^R aView [™]) | On the market; assess cost-effectiveness | Patients eligible for bronchoscopy | I: Bronchoscopy with single use device; C: bronchoscopy with re- usable device | Avoided infections, increment al cost per bronchosc opy, ICER | 1 year, health care payer | None |
| Weaver 2018 [55] US Effective- ness analysis | Predictive test for triage between two tx options in advanced stage epithelial ovarian cancer | Hypothetical; evaluate potential benefit for patients | Patients with newly diagnosed stage IIIC epithelial ovarian cancer | I: Test guided tx with either primary cytoreductice surgery or neoadjuvant chemotherapy and interval cytoreductive surgery; C: triage and SOC tx | LYs | Lifetime, not applicable | None |
| Yu 2018 [56] US BIA | Predictive next generation sequencing test to guide first-line therapy in lung cancer | Type of test, not one specific product, increasingly available on the market but expensive; inform reimbursement decisions for next generation sequencing tests | Newly diagnosed patients with non-squamous advanced non- small cell lung cancer undergoing gene testing | I: next generation sequencing testing and targeted treatment; C: single gene testing and targeted treatment | Budget impact | 5 years, health care payer | Thermo Fisher Scientific (private) |

BIA: budget impact analysis; C: comparator; CEA: cost-effectiveness analysis; CUA: cost-utility analysis; EVPI: expected value of perfect information; EVPPI: expected value of partial perfect information; I: intervention; ICER: incremental cost-effectiveness ratio; ICUR: incremental cost-utility ratio; LY: life year; NHB: net health benefit; QALY: quality-adjusted life year; SOC: standard of care; tx: treatment; UK: United Kingdom of Great Britain and Northern Ireland; US: United States of America; y: year

Table 7: Diagnostic devices – model characteristics

| Publication | Model Type | Effect data | Mechanism of effect | Cost data | Uncertainty Vol | Elicitation Calibration Validation |
|------------------------|---|--|---|---|--|---|
| Almario 2018 [43] | Decision tree | Test accuracy is assumed and varied; probabilities and utilities from several published studies (online appendix) | Rule-out: biomarker true negative results lead to earlier detection of other organic disease; biomarker false positive results lead to longer failed tx before detection of other organic disease | Reimbursement cost from public databases | PSA; no Vol | E: no C: no V: no |
| Campos 2017 [44] | Decision tree & state- transition model; individual level simulation | Test performance and effect of 1-visit testing from multi- site demonstration project (assumed same as for SOC test); screening coverage assumed 100%; loss to follow-up was assumed and varied | Avoidance of loss to follow-up between 2 screening visits; cost savings through 1-visit strategy compared to 2-visit strategy | Including indirect cost; from multi- site demonstration project | PSA; no Vol | E: no C: natural history model calibrated previously V: no |
| Critselis 2018 [45] | Markov model | Test accuracy and association with renal disease shown in studies; effect of intensified tx based on unspecified "reports"; SOC: UKPDS study | Higher sensitivity, specificity for new biomarker compared to SOC, more patients receive intensive hypertensive tx, fewer FP too; more costly | Retail price for test; resource use and payer cost: publications from European countries | DSA for many parameters; scenario analyses for target populations and for larger screening intervals; no Vol | E: "empirical reports" (expert opinion?) for effect of modified tx C: no V: internal & external for the SOC branch |

| Publication | Model Type | Effect data | Mechanism of effect | Cost data | Uncertainty Vol | Elicitation Calibration Validation |
|-----------------------|---|--|--|--|---|---|
| Degeling 2017 [46] | Timed automata & discrete event simulation, micro- simulation | Test accuracy and relation of cell count to survival from one published study; no RCT for circulating tumor cells as a response marker yet | Earlier tx switching from unsuccessful tx to next option leads to increased QoL; diagnostic performance of each test was considered; negative consequences for false positive results are not described; pathway includes: repetition of test according to guidelines, physician adherence to guidelines, tx interruptions not related to progression, survival based on individual patient history | Circulating tumor cell enumeration: expert opinion; other cost: literature, reimbursement tables | DSA for a large number of parameters; no Vol | E: physician adherence to guidelines and cost of test from experts' opinion C: no V: face validity, internal & cross validation; no data for external validation |

| Publication | Model Type | Effect data | Mechanism of effect | Cost data | Uncertainty Vol | Elicitation Calibration Validation |
|--------------------|---|---|---|---|--|--|
| Doble 2017 [47] | Decision tree and Markov model | One study, reporting sensitivity & specificity of multiplex targeted sequencing panels in general in detecting any genomic alterations; tx effects: no effect data available on targeted tx with specific single alterations; therefore average tx effect for any targeted tx; all clinical transitions derived from published studies using a few assumptions | Benefit: some patients receive targeted therapy and benefit from higher response rate compared to standard tx; testing uncertainties considered: insufficient biopsy samples, test may not be successful, limited test accuracy, alterations may not be actionable; mortality during 4 week testing phase was considered; targeted tx starts at week five after successful test phase; start time of alternative tx during unsuccessful test phase was considered; adverse events from biopsy considered | Direct medical cost; sources: reimbursement rates, literature review, similar tests | DSAs for many parameters, scenario analysis for potential technological advances in the future; EVPI, EVPPI | E: no C: no V: no |
| Jin 2019 [48] | Markov model | Test sensitivity and specificity are assumed and varied in full range, other data from published studies | Patients testing positive with the new test spend less time unnecessarily on clozapine, which has stronger adverse events than other antipsychotics | Price of test assumed and varied, guided by more expensive types of test; other cost: national data bases and published studies | One-way and two- way DSA; threshold analysis, PSA; no Vol | E: no C: no V: internal & face validation |

| Publication | Model Type | Effect data | Mechanism of effect | Cost data | Uncertainty Vol | Elicitation Calibration Validation |
|------------------------------------|--|--|--|--|--|---|
| Khoudigian -Sinani 2017 [49] | Decision tree | Some assumptions; evaluation of 107 cases of dysplasia, with up to 10 years of follow-up, biomarker test + histopathology demonstrated improvement in (PPV) and (NPV) value by 10% and 27%, respectively | Risk stratification by new test in addition to stratification by histology; treatment scenarios for each combination elicited from experts | Direct medical and non-medical costs, indirect costs | Scenarios, one- way and PSA; no Vol | E: scenario drafting & belief elicitation for tx change with new device C: no V: no |
| Kip 2018 [35] | Decision tree | Main effects of test on clinical decisions were elicited for several test sensitivities; specificity of individual markers published, combined specificity calculated; sensitivity assumed (3 different values); other data from published evidence | New test shortens time to rule- out of non-ST-elevation myocardial infarction (effect on discharge rate and interventions performed); cost savings | Test cost: individual test cost were summed for triple test; hospital cost: reimbursement data | DSA for all parameters, PSA, Scenario analysis; no Vol | E: probability of discharge & follow-up diagnostics at different levels of accuracy elicited from 10 experts in questionnaire C: no V: no |
| Kluytmans 2019 [50] | Diagnostic decision tree, Markov model | Assumption | New test assumed to be perfect; TP, FP, FN, TN for old test; Tx if test is positive | Direct medical costs | Multivariate threshold analysis, one-way and PSA; headroom for price with perfect accuracy; no Vol | E: expert opinion for some parameters C: no V: no |

| Publication | Model Type | Effect data | Mechanism of effect | Cost data | Uncertainty Vol | Elicitation Calibration Validation |
|------------------------------------|--|---|---|--|--|---|
| Lansdorp- Vogelaar 2018 [51] | State- transition model, micro- simulation | Test characteristics were assumed and varied, other parameters were available from previous models | Through sensitivity per person and per type of lesion and specificity | Direct medical costs, patient time cost, test cost assumed and varied; other costs updated from previous model | Range of scenario analyses, threshold analyses; no Vol | E: for some natural history parameters in previously published base models C: some parameters in the base models were calibrated V: no |
| Lotan 2018 [52] | Decision tree | A few data on mutation detection rates and response rates to treatment for 3 different biomarkers are available from small patient cohorts; combined to describe a general predictive single marker test; tests were not assumed to predict response perfectly | Depending on biomarker, fewer patients without response may get neoadjuvant chemotherapy and therefore avoid adverse effects without benefitting; more patients with response may get neoadjuvant chemotherapy and benefit | Test prices estimated from currently available tests | One-way DSA for range of parameters, 2- way DSA for test positivity and treatment response with positive result; no Vol | E: no C: no V: no |
| Mitchell 2018 [53] | Discrete event simulation, micro- simulation | Assumptions; percent of patients with true myopathy: assumption; "no test" assumed for SOC (stop statin if musculoskeletal pain); statin efficacy based on 1 RCT | Perfect sensitivity, specificity for PGx; more patients are staying on statin | Direct medical cost | Deterministic two- way SA for test accuracy, CE- threshold analysis, one-way DSAs, headroom: max price for CE threshold with ranges of test accuracy; no Vol | E: no C: no V: no |

| Publication | Model Type | Effect data | Mechanism of effect | Cost data | Uncertainty Vol | Elicitation Calibration Validation |
|-----------------------|---|--|--|---|---------------------------------------|--|
| Terjesen 2017 [54] | Decision tree | No evidence on infection risk found in a literature review, assumption of no risk of infection; comparator: risk of infection was elicited | Reduction of risk of infection to zero with new device; device cost higher but cost of one infection most important | Direct medical cost for device & adverse event; product price and average use; comparator: 5 published cost analyses; cost of infection: ventilator-assisted pneumonia assumed comparable | One- & two-way DSA, PSA; no Vol | E: Delphi-panel for risk of infection (8 experts completed 2 survey rounds) C: no V: no |
| Weaver 2018 [55] | Decision tree and state transition model, micro- simulation | Assumed test characteristics; other parameters: mainly a national cancer data base, survival after cytoreductive outcome from RCTs | Test-based triage leads to more complete resections; consequently to longer life expectancy | Not applicable | DSA for some parameters; no Vol | E: no C: no V: comparator arm against published data |

| Publication | Model Type | Effect data | Mechanism of effect | Cost data | Uncertainty Vol | Elicitation Calibration Validation |
|-----------------|---|--|---|--|--|---|
| Yu 2018 [56] | Markov model for budget impact analysis | Rates of successful tests for next generation sequencing from one trial, tx effects from literature on single gene testing | Higher number of successful tests and patients on targeted therapy, rebiopsy and retesting considered if no success, two genes with targeted tx considered, two more in scenario analysis; clinical trial for mutations without proven targeted tx was considered; tx dosing based on patient characteristics | 100% market uptake for next generation sequencing assumed, proportions of single gene tests according to current practice; reimbursement cost for tests, treatments, progression, palliative care | DSA (1-way) for broad range of parameters, scenario analyses; no Vol | E: expert opinion for enrollment rate in clinical trial, a few reimbursement rates C: no V: no |

AE: adverse event; C: calibration; CE: cost-effective(ness); DSA: deterministic sensitivity analysis; E: elicitation; EVPI: expected value of perfect information; EVPPI: expected value of partial perfect information; FN: false negative; FP: false positive; NPV: negative predictive value; PPV: positive predictive value; PSA: probabilistic sensitivity analysis; QoL: Quality of life; RCT: randomized controlled trial; SOC: standard of care; TN: true negative; TP: true positive; tx: treatment; UKPDS: United Kingdom Prospective Diabetes Study; V: validation; VoI: value of information; y: year(s)