

**SUPPLEMENT DIGITAL CONTENT****1 Search strategy**

2003-1/1/2022

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((value-based OR valuebased) NOT ((value-based OR valuebased) NEXT/2 (insuran\* OR purchas\* OR pric\* OR reimburse\* OR contract\* OR payment\* OR partnership\*)) OR vbhc OR vb-hc):ab,ti) AND ('cost'/de OR 'health care cost'/de OR 'time driven activity based costing'/de OR 'activity based costing'/de OR (cost OR costs OR costing OR microcosting OR macrocosting OR tdabc OR abc OR (resource NEAR/3 assignment\*) OR (direct\* NEAR/3 estimat\*)):ab,ti) NOT (cost NEXT/1 (eval\* OR benefit\* OR effectiv\* OR utilit\* OR consequen\* OR minimi\* OR outcome\* OR reduc\* OR saving\*)):ti NOT [conference abstract]/lim AND ([dutch]/lim OR [English]/lim)

**Medline Ovid**

((value-based OR valuebased) NOT ((value-based OR valuebased) ADJ2 (insuran\* OR purchas\* OR pric\* OR reimburse\* OR contract\* OR payment\* OR partnership\*)) OR vbhc OR vb-hc).ab,ti.) AND ("Costs and Cost Analysis"/ OR Health Care Costs/ OR (cost OR costs OR costing OR microcosting OR macrocosting OR tdabc OR abc OR (resource ADJ3 assignment\*) OR (direct\* ADJ3 estimat\*)):ab,ti.) NOT (cost ADJ (eval\* OR benefit\* OR effectiv\* OR utilit\* OR consequen\* OR minimi\* OR outcome\* OR reduc\* OR saving\*)):ti. AND (dutch.la. OR english.la.)

**CINAHL EBSCOhost**

((TI(value-based OR valuebased) OR AB (value-based OR valuebased)) NOT (TI((value-based OR valuebased) N2 (insuran\* OR purchas\* OR pric\* OR reimburse\* OR contract\* OR payment\* OR partnership\*)) OR AB((value-based OR valuebased) N2 (insuran\* OR purchas\* OR pric\* OR reimburse\* OR contract\* OR payment\* OR partnership\*))) OR TI(vbhc OR vb-hc) OR AB(vbhc OR vb-hc))) AND ((MH "Costs and Cost Analysis" OR MH Health Care Costs OR MH Value-Based Health Care OR AB(costing OR microcosting OR macrocosting OR tdabc OR abc OR (resource N2 assignment\*) OR (direct\* N2 estimat\*))) OR (TI(cost OR costs) NOT TI(cost N1 (eval\* OR benefit\* OR effectiv\* OR utilit\* OR consequen\* OR minimi\* OR outcome\* OR reduc\* OR saving\*)))) AND LA(dutch OR english)

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TS=(((value-based OR valuebased) NOT ((value-based OR valuebased) NEAR/2 (insuran\* OR purchas\* OR pric\* OR reimburse\* OR contract\* OR payment\* OR partnership\*)) OR vbhc OR vb-hc)) AND ((cost OR costs OR costing OR microcosting OR macrocosting OR tdabc OR abc OR (resource NEAR/2 assignment\*) OR (direct\* NEAR/2 estimat\*))) AND (care OR health\* OR medicine OR clinical OR hospital\* OR surger\* OR therap\* OR patient\* OR oncolog\* OR drugs OR medication\* OR cancer\* OR pharmac\*)) NOT TI=(cost NEAR/1 (eval\* OR benefit\* OR effectiv\* OR utilit\* OR consequen\* OR minimi\* OR outcome\* OR reduc\* OR saving\*)) AND DT=(article) AND LA=(dutch OR english)

**SUPPLEMENT DIGITAL CONTENT****2 Inclusion/exclusion criteria, data extracted*****Eligibility criteria***

Language	English or Dutch
Publication date	Between 2003 and 1.1.2022
Research type	Original, peer-reviewed, empirical research
Terms	Any variation of the terms “cost” and “value-based” in title or abstract
Full text content	Costs of an intervention, treatment, care path, or other healthcare activity must have been measured or estimated.

***Variables collected***

Descriptive	Name, year published, authors, medical specialty, location
Costs included	Based on author reporting we classify studies into one of two categories: <ul style="list-style-type: none"> <li>• Direct costs only</li> <li>• Direct and indirect costs</li> </ul>
Cost perspective	We inductively classify studies into one or more categories: <ul style="list-style-type: none"> <li>• Provider costs (e.g. hospital)</li> <li>• Payer costs (reimbursements, charges, payments)</li> <li>• Patient costs (out-of-pocket costs to patient)</li> </ul>
Care path length	We inductively classify studies into one of the following categories: <ul style="list-style-type: none"> <li>• Full care path</li> <li>• Full care path, full surgical episode (FSE)</li> <li>• Partial care path, full surgical episode (PSE)</li> <li>• Partial care path</li> </ul>
Costing method label	Costing method used, as labelled by the authors. These include traditional cost accounting, ABC, or ABC excluding overheads, TDABC, or TDABC with some cost categories omitted, microcosting, bottom-up clinical costing, reference pricing, relative value units or DRG costs, direct variable costs, or direct costs as an estimate of total cost, reimbursements, charges, claims, payments, and cost-to-charge ratio.
Costing method applied	Costing method applied, based on method described by authors. We classified studies using management accounting literature (e.g., Zimmerman, 2015). We found the following categories represented in the literature. <ul style="list-style-type: none"> <li>• Direct costing</li> <li>• Absorption costing, which includes: <ul style="list-style-type: none"> <li>○ ABC</li> <li>○ TDABC.</li> <li>○ Other</li> </ul> </li> </ul> <p>Cases using reimbursements or charges to estimate costs were coded as ‘reimbursements’ or ‘cost-to-charge ratio’.</p>
Facilitating factors	If the study discussed the consequences of the costing information generated, we collected the consequences. After we collected all consequences, we categorized these inductively.

*Note:* ABC: Activity-based costing; TDABC: Time-driven activity-based costing

**Supplement digital content table 1.** Eligibility criteria and data collected.

## SUPPLEMENT DIGITAL CONTENT

### 3 All studies included in RQ1

Perspective	Method	n	studies
<i>Provider</i>	Direct costs only		
	Direct costing	23	[1–23]
	Absorption costing		
	ABC	7	[24–30]
	TDABC	31	[31–61]
	Other	47	[62–108]
	Not specified	3	[109–111]
<i>Insurer</i>	Charges & reimbursements		
	Charges, reimbursements, claims	81	[23,39,112–190]
	Charges adjusted with cost-to charge ratio	25	[108,191–214]
<i>Patient</i>	Out-of-pocket costs to patient	5	[106,126,130,215,216]

*Note:* Total number of studies here is 222; seven studies measure two cost types[23,38,39,106,108,126,130]. Studies are classified based on actual costs included and methods described, not necessarily the labels used by authors.

**Supplement digital content table 2.** Overview of cost measurement methods used in value-based healthcare with references

#### References of all studies included in research question 1

*Reference numbers start at 1, these differ from the manuscript.*

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