**Additional file 1: Search strategy for Ovid Medline (1946 to present) (search 1 to 21 ref Doble et al 2017)**

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| 1. exp "costs and cost analysis"/ or exp health care costs/ or exp health expenditures/ or exp hospital costs/
2. (“cost$” or “cost$ study”).ab,hw,kf,kw,ot,sh,ti,tw.
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| 1. Bottom-up.ab,hw,kf,kw,ot,sh,ti,tw.
2. (microcost$ or micro-cost$).ab,hw,kf,kw,ot,sh,ti,tw.
3. (bottom-up adj5 (cost$ or accounting)).ab,hw,kf,kw,ot,sh,ti,tw.
4. (activity-based adj5 (cost$ or accounting)).ab,hw,kf,kw,ot,sh,ti,tw.
5. time study.ab,hw,kf,kw,ot,sh,ti,tw.
6. ((time-and-motion or time-motion) adj (study or studies or method\* or analys\*)).ab,hw,kf,kw,ot,sh,ti,tw.
7. 3 or 4 or 5 or 6 or 7 or 8
8. (1 or 2) and 9
9. exp Specialties, Surgical/
10. exp Surgical Procedures, Operative/
11. exp "prostheses and implants"/
12. exp General Surgery/
13. (surgery or surgical or surgeon\*).ab,hw,kf,kw,ot,sh,ti,tw
14. (operation or operative or post-operative or postoperative).ab,hw,kf,kw,ot,sh,ti,tw.
15. surgery/
16. 11 or 12 or 13 or 14 or 15 or 16 or 17
17. 10 and 18
18. Animals/ not (Animals/ and Humans/)
19. 19 not 20
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