

## Appendix

TABLE E-1 Search Strategy\*

Search	Query
#1	Blood transfusion[mesh]
#2	transfusion[tiab] OR transfusions[tiab]
#3	#1 OR #2
#4	Orthopedic procedures[mesh]
#5	Orthopedic[tiab] OR Hip[tiab] OR Knee[tiab] OR Spine[tiab]
#6	#4 OR #5
#7	((randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR placebo[tiab] OR clinical trials as topic[mesh: noexp] OR randomly[tiab] OR trial[ti]) NOT (animals[mh] NOT humans[mh]))
#8	#3 AND #6 AND #7

\*PubMed search performed on December 15, 2016.

TABLE E-2 Definitions of Primary and Secondary Outcomes\*

Trial	Primary Outcome	Secondary Outcomes					
	Cardiovascular Event	All Infections	Mortality	Thromboembolic Event	Wound Infection	Pulmonary Infection	Cerebrovascular Accident
Carson et al. <sup>18</sup> , 1998	MI	Pneumonia	30-day	Thromboembolism	NA	Pneumonia	Stroke
Lotke et al. <sup>19</sup> , 1999	MI, arrhythmia	NA	30-day	NA	NA	NA	NA
Grover et al. <sup>20</sup> , 2006	MI, left bundle branch block, ventricular tachycardia, cardiac arrest	Wound infection, chest infection	NA	DVT, PE	Wound infection	Chest infection	NA
Foss et al. <sup>21</sup> , 2009	MI, CHF, arrhythmia	Wound infection, pneumonia, sepsis	30-day	Thromboembolic event	Wound infection	Pneumonia	Cerebrovascular accident
So-Osman et al. <sup>22</sup> , 2010	Cardiovascular events	Wound infection, pneumonia, purulent sputum	NA	NA	NA	Respiratory complications	NA
Carson et al. <sup>23</sup> , 2011	MI, CHF, angina	Wound infection, pneumonia	NA	DVT, PE	Wound infection	Pneumonia	Stroke or transient ischemic attack
Parker <sup>24</sup> , 2013	CHF, arrhythmia	Superficial and deep wound infection, pneumonia, sepsis	NA	DVT, PE	Superficial and deep wound infection	Pneumonia	Cerebrovascular accident
Fan et al. <sup>25</sup> , 2014	MI, CHF	Superficial wound infection, pneumonia, urinary tract infection	NA	PE	Superficial wound infection	Pneumonia	Cerebrovascular accident
Nielsen et al. <sup>26</sup> , 2014	NA	Surgical site infection, pneumonia	NA	DVT	Surgical site infection	Pneumonia	NA
Gregersen et al. <sup>27</sup> , 2015	NA	Pneumonia, urinary tract infection, other infections	30-day	NA	NA	Pneumonia	NA

\*MI = myocardial infarction, NA = not available, DVT = deep vein thrombosis, PE = pulmonary embolism, and CHF = congestive heart failure.