

ESPS Peer-review Report

Name of Journal: World Journal of Orthopedics

ESPS Manuscript NO: 7959

Title: Identification and preoperative optimization of risk factors to prevent periprosthetic joint infection: Integrated with guideline by Centers for Disease Control and Prevention (CDC)

Reviewer code: 00742031

Science editor: Wen, Ling-Ling

Date sent for review: 2013-12-10 14:09

Date reviewed: 2014-02-24 06:06

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B (Very good)	<input checked="" type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C (Good)	<input type="checkbox"/> Grade C: a great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)	<input type="checkbox"/> Grade D: rejected	BPG Search:	<input checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

Overall, the paper is well written, but I suggest an English review. I've done some suggestions through the text, but a professional review should be better. Moreover, I suggest the author to be less personal, and avoid the excessive use of the first person of plural (i.e., we, our) throughout the paper. I've made some remarks and suggestions in the text, which is uploaded below. Introduction: 2nd paragraph, line 7: "Moreover, those interventions should be integrated into and be in accordance with the general principles for surgical site infection (SSI)." Please insert a reference where the reader can read about the SSI. At the end of the section: I suggest you to put a transition here, to present to the reader the sequence in which you will discuss the present review, based on Table 1. Something like: "According to the CDC, there are two main kinds of risk factors, the demographic factors and the preexisting comorbidities. The first comprises..., the second... They will be explored separately on next topics." Demographic characteristics: Line 5: As a foreigner, I don't know exactly what is the "Medcare", and I imagine that other readers don't know it either. So, I suggest you to describe what it is service, something like "a public health system employed in (country)..." Last phrase: "Moreover, patient's socioeconomic status may reflect the level of nutrition, smoking status or preexisting comorbidities, all of which would contribute to the incidence of PJI." Is this one hypothesis for the high prevalence of PJI in patients from the Medicare premium? If so, change the text and add references for this affirmation (you have presented some along the text), to conclude the idea. Patients from Medicare are poorer? In my opinion the author should explore better that these factors are, in general, not modifiable. But based on the literature they should be taken into consideration as



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potentially increasing the risk of PJI (the author has explored this aspect in the conclusion, but I think that this information is missing here). Preexisting comorbidities: Line 8: "Among retrospective studies with smaller subjects from single institutions, Pulido et al. reported higher American Society of Anesthesiologists (ASA) score, morbid obesity..." In my opinion it is better to detail what is the meaning of the high score because, for readers not familiarized with the ASA score, it seems that a high score is something good, but in fact it is not. At the end of the section: Put a transition to the next topics to inform that you will explore each of the cited risk factors separately. Peripheral vascular disease and smoking: Line 2-3: "Smoking has demonstrated deleterious effects including decreased tissue oxygenation, impaired neutrophil defense and resultant retardation of wound healing." Reference is missing. Coagulopathy: Line 1: "Coagulopathy including high INR can..." What is INR? Depression and psychosis: Line 4: "...and often, management of depressive mood itself improves the clinical symptoms of osteoarthritis." Is there any research corroborating this affirmation? Last line: "Also, it is rarely performed elective arthroplasty in patients with schizophrenia." Change schizophrenia for psychosis, because there are more psychiatric diseases than schizophrenia only. Remote and coexistent infection: Last line: What is the practice within the author's institution? Discussion: In my opinion the last two paragraphs before conclusion seems more like a discussion section than a continuation of the previous topic. Authors should consider this part as a discussion.