Reviewer's report

Title: Access site complications following transfemoral coronary procedures: comparison between traditional compression and angioseal vascular closure devices for hemostasis

Version: 3 Date: 12 October 2014

Reviewer: Giorgio Quadri

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Pei-Jung Wu and Colleagues reported no difference in access site complication between manual compression and angioseal vascular closure in 130 patients undergoing transfemoral coronary procedures. Patient’s comfort level was significantly higher in patients in the “angioseal group”. The haemostasis protocol is well described. Despite this, the study suffers from significant limitations.

Major compulsory revision

1. International Normal Ratio > 2 was considered among exclusion criteria. Does it mean that all patients treated with K vitamin antagonists were excluded? Did the study include patients treated with Low molecular weight heparins or with new oral anticoagulants?
2. The indication for coronary angiography is not reported. Any emergency/urgent procedure was performed in the enrolled patients? Please, add in the text and in table 1 the indication for the procedure.
3. Multivariate analysis is not an accurate statistical method when there are few events for every covariates (in this case, < 5 events for every covariate). Please, re-perform the analysis using propensity match score. (See D’Ascenzo et Al, Use and misuse of multivariable approaches in interventional cardiology studies on drug-eluting stents: a systematic review. J Interv Cardiol. 2012 Dec;25(6):611-21)

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests: I declare that I have no competing interests