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Reviewers' comment	Authors' response	Changes in the text
Comment 1. The authors restricted themselves on a superficial description of the different deep learning application without providing an added value for the reader beyond their excellent research (i.e. table 1). In particular, they missed the opportunity to discuss their own results of the performed meta- analysis.	Reply 1. -A new paragraph has been added to the "Results" section explaining the different deep learning applications found amongst all studies. The meta- analysis section has a review of the models used, and an in-depth discussion of most models is provided in the Discussion section under "Deep learning techniques". -Another paragraph has been added to the "Summary of main results" section about meta-analysis results.	-See page 11, lines 1-7 -See page 17, lines 18-21
Comment 2. Abstract: Please provide an explanation for the abbreviation "QUADAS"	Reply 2. Thanks for the comment. An explanation has been provided	-See page 2, line 13
Comment 3. Selection criteria: "Comparison was made with the standard imaging tests used in clinical practice (reference test) which is considered the gold standard." Please rephrase this sentence.	Reply 3. Thanks for the comment. This sentence has been rephrased to become clearer.	-See page 6, lines 12-13
Comment 4. Methodology: Rather long (approximately one page) description of data extraction and assessment of risk of bias. Consider a revision.	Reply 4. The Data extraction paragraph has been shortened to include only the list of extracted fields. The risk of bias section is already condensed and focused mainly on the 5 fields	-See page 8, line 6

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	important to understand the table	
	in Appendix.2	
Comment 5. Statistical analysis: "Those metric	Reply 5. Thanks for the	-See page 9, line 13
were described qualitatively".	comment. This has	-See page 14,
However, most of the parameters	been changed to	lines 5-16
are quantitative (e.g. area under	quantitatively.	
the curve).	Also, another section	
	on heterogeneity	
	testing has been	
	added for more	
	quantitative meta-	
	analysis	
Comment 6.	Reply 6.	-See page 10,
Results: Please provide the	Thanks for the	lines 17-18
explanation for OCT and IVUS at	comment.	
their first reference (page 10, line	These acronyms have	
243).	been explained	
Comment 7.	Reply 7.	-See page 12, line
Coronary artery stenosis (page 14,	Thanks for the	6
line 325): "(CCTA, OCT, IVU,	comment.	
inva" Please correct the	This has been	
misspelling (IVUS)	corrected.	
Comment 8.	Reply 8.	-See page 18, line
The information provided in	2 paragraphs have	6
"Applicability of findings to	been deleted due to	-See page 19, line
review question", "Implication for	repetition, and the	11
practice" and "implication for	"Applicability of	
research" is quite similar and	findings to review	
repetitive.	question" section has	
	been merged with	
	"Summary of main	
	results"	
Comment 9.	Reply 9.	-See page 32,
Figure 2: Please provide an	An explanation of this	lines 7-8
explanation for the term "Invasive	old technique has	
coronary angioscopy".	been added to Figure	
Unfortunately, there is no further	2 legend. This is not	
explanation on this term in the	related to IVUS or	
manuscript. Is this the umbrella	OCT.	
term for IVUS and OCT?	D 1 40	0 00
Comment 10.	Reply 10.	-See page 32,
Further, why do the authors have	Son et al reference	lines 9-10
a category "retinal fundus	(78) used imaging of	
imaging?" Is this a confusion with	the retina to predict	
OCT, which can also be applied for	coronary artery	
high-resolution images of the	calcification (CAC)	
retinal layer? And more	compared to	

important, how was a study about retinal fundus imaging accepted by the inclusion/exclusion criteria?	coronary CT, so this is not confusion with OCT. This study passed the inclusion criteria as it addresses deep learning for prediction of some of coronary anatomy features. An explanation has been added to Figure 2 legend.	
Comment 11. Last, why do the authors mention cardiac phase space tomography analysis, if they were not further explained within the text?	Reply 11. This technique is rare and not widely used, but reported in one study Stuckey et al reference (17), so it was listed and included in the plot for completion purpose only, but has no significant clinical value (so is the case for invasive coronary angioscopy). Figure 2 legend has been updated with some explanation.	-See page 32, lines 5-6
Comment 12. Figure 4: Please use a standardized scale for sensitivity and specificity results (preferably 0-1).	Reply 12. The scale is standardized 0-1, but the 2 forest plots show different scales on the x axis due to the difference in individual studies values. For example, the highest sensitivity value is 0.95, so the max scale appears to be 1, whereas the highest specificity value is 0.89, and the max scale appears to be 0.9. This is R package "mada" plotting system and	NA

Comment 13. Throughout the manuscript: The authors used two different abbreviations for coronary computed tomography angiography: CCT and CCTA. Please be consistent (CCTA is the common term for illustration of the coronary with CT).	how it appears, but the scale is 0-1 for both plots. If this is a major issue we can try different R package to construct the plots, so please let us know if necessary. Reply 13. Thanks for this comment. All abbreviations have been unified as CCTA.	
Comment 14. Throughout the manuscript: please enter a comma before the word "which"	Reply 14. Thanks for this comment. This has been implemented throughout the manuscript.	