

ESPS Peer-review Report**Name of Journal:** World Journal of Radiology**ESPS Manuscript NO:** 7210**Title:** Patient diameters for Size- Specific Dose Estimates [SSDE]: should we use localizer or transverse abdominal CT images?**Reviewer code:** 02661987**Science editor:** Zhai, Huan-Huan**Date sent for review:** 2013-11-09 21:31**Date reviewed:** 2013-12-10 07:27

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	<input type="checkbox"/> Existed	<input checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> No records	<input type="checkbox"/> Major revision

COMMENTS TO AUTHORS

Dear author, Thank you for submitting this well written retrospective study on the use of patient's physical dimensions for SSDE. I have a number of comments; There are some limitations of the study. First of all sample size of the study is small. Also, no pediatric patients or patients with spinal deformities included the study. If possible, pediatric patients and patients with chest wall/spinal deformity could be added to the study. It is mentioned in the study that, AP-Lateral diameters have magnification artifact. Do you have real abdomen diameter, chest diameter measurement values of these patients? Tables should be clearly explained. Best regards

ESPS Peer-review Report

Name of Journal: World Journal of Radiology

ESPS Manuscript NO: 7210

Title: Patient diameters for Size- Specific Dose Estimates [SSDE]: should we use localizer or transverse abdominal CT images?

Reviewer code: 02667055

Science editor: Zhai, Huan-Huan

Date sent for review: 2013-11-09 21:31

Date reviewed: 2013-12-11 02:17

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A (Excellent)	<input checked="" type="checkbox"/> Grade A: Priority Publishing	Google Search:	<input checked="" type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B (Very good)	<input type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input type="checkbox"/> High priority for publication
<input 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	<input type="checkbox"/> Existed	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)		<input type="checkbox"/> No records	<input type="checkbox"/> Major revision

COMMENTS TO AUTHORS

Dear Authors, This is a very well written manuscript. Most importantly your results have a potentially critical impact on clinical practice. I do not have any major revision to suggest, just a few points to be clarified as detailed below. **ABSTRACT** - Please introduce the extended definition for CTDI (Computed Tomography Dose Index); - **M&M:** specify lateral and frontal localizer radiograph. **INTRODUCTION** - Well written. Just a typing mistake on the 5th row to the end (effected instead of affected). **M&M:** - Image measurements: did you first perform measurements on localizer radiographs and then cross-linked those to CT transverse images on your PACS system? - Did you test your data for normality before applying the Student's paired sample t-test? **RESULTS** - Dose and SSDE: it would be interesting to see differences between scanners (you included 9 different CT scanners)? Was there any? You may not have sufficient numbers to run this sort of analyses but it would be interesting to clarify this point in the future including more patients for each scanner. - I noticed on Fig.1 that your localizer includes chest too. When you refer to mid-scan length and mid slice location are you referring to the abdomen only? Please clarify this point. **DISCUSSION** - 41 out of 50 patients included in your study were off-centered for the gantry isocenter. This is quite a high percentage. Was there any specific reason for this? I would stress the fact that correct positioning of patients is the first step to optimise Dose exposure. - Again please clarify what is meant for mid-slice location. **TABLES** - Table 2: add unit of measurements **FIGURES** captions - Fig.1: "Anterior-Posterior diameters (Dap) and Lateral (Dl) diameters were measured on lateral ****localizer...."; please insert (*) "and frontal". Thank you

ESPS Peer-review Report
Name of Journal: World Journal of Radiology

ESPS Manuscript NO: 7210

Title: Patient diameters for Size- Specific Dose Estimates [SSDE]: should we use localizer or transverse abdominal CT images?

Reviewer code: 02635498

Science editor: Zhai, Huan-Huan

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

COMMENTS TO AUTHORS

I was pleased to review the article `Patient diameters for Size- Specific Dose Estimates [SSDE]: should we use localizer or transverse abdominal CT images? The authors evaluated the effect on SSDE measurements from using patient dimensions obtained from localizer radiographs and transverse abdominal CT images. They concluded that there is considerable underestimation and overestimation of dose comparing SSDE values to CTDI vol .Transverse CT images should be preferred over the localizer radiographs for measurement of patient size since the latter are associated with overestimation of patient size and therefore underestimation of SSDE. This is a well-designed and -written manuscript. The results of the manuscript are important for current radiology literature and will be an inspirational tool for future researches on this topic.