Grant ID: 051



College of Radiographers Industrial Partnership Research Awards Final Report

1. Principal Investigator	Robert Meertens
2. Project Title	Diagnostic accuracy of radiographer reporting of computed tomography
	colonography examinations: A systematic review.
3. Amount of Award	£500
	y as indicated in your proposal (if not why)?
	minate the findings of our research via presentation at UKRC 2012 and
publication in Clinical Radiolo	8)
	ded project outcomes (if not why)?
	the available literature it was decided to restrict our area of research to CT gastrointestinal radiology examinations.
6. What are your significant	
	ot support radiographers in a role involving the single formal written
	ns. Radiographers' performance, however, did appear to improve
significantly with the number read. Therefore, when provided with adequate training and experience, there may be a potential role for radiographers in the double reporting of CTC examinations.	
7. Have you submitted the	work for publication (if so where)?
The research findings were p	resented by the Principal Investigator at UKRC 2012. The findings were
also recently published in Clinical Radiology (Reference: Meertens R, et al., Diagnostic accuracy of	
radiographer reporting of con	nputed tomography colonography examinations: A systematic review,
	p://dx.doi.org/10.1016/j.crad.2012.11.005).
8. Please provide an execut	tive summary of your work
o. Flease provide all execut	live summary of your work
Computed tomography colon	ography (CTC) is the primary radiological test for the detection of colorectal
	olyps. Radiographer reporting of CTC examinations could help to improve
	ig service. We undertook a systematic review to assess the accuracy with
	vide formal written reports on intraluminal disease entities of CTC
	reference standard. Data sources searched included online databases,
	literature, and reference and citation tracking. Eligible studies were
	were extracted on study characteristics. Pooled estimates of sensitivities
	are tests of heterogeneity were calculated. Eight studies were eligible for
inclusion with some risk to bias. Pooled estimates from three studies showed per patient sensitivity and	
specificity of reporting radiographers was 76% (95% CI: 70-80%) and 74% (95% CI: (67-80%),	
	udies, per lesion sensitivity for the detection of lesions >5 and >10 mm was
	75% (95% CI: 72-79%) respectively. Pooled sensitivity for detection of
lesions >5 mm in studies for	75% (95% CI: 72-79%) respectively. Pooled sensitivity for detection of which radiographers reported 50 or less training cases was 57% (95% CI:
lesions >5 mm in studies for 52-61%) and more than 50 ca	75% (95% CI: 72-79%) respectively. Pooled sensitivity for detection of which radiographers reported 50 or less training cases was 57% (95% CI: ases was 78% (95% CI: 74-81%). The current evidence does not support
lesions >5 mm in studies for v 52-61%) and more than 50 ca radiographers in a role involv	75% (95% CI: 72-79%) respectively. Pooled sensitivity for detection of which radiographers reported 50 or less training cases was 57% (95% CI: ases was 78% (95% CI: 74-81%). The current evidence does not support ring the single formal written reporting of CTC examinations. Radiographers'
lesions >5 mm in studies for v 52-61%) and more than 50 ca radiographers in a role involv performance, however, did ap	75% (95% CI: 72-79%) respectively. Pooled sensitivity for detection of which radiographers reported 50 or less training cases was 57% (95% CI: ases was 78% (95% CI: 74-81%). The current evidence does not support ring the single formal written reporting of CTC examinations. Radiographers' ppear to improve significantly with the number read. Therefore, when
lesions >5 mm in studies for v 52-61%) and more than 50 ca radiographers in a role involv performance, however, did ap provided with adequate traini	75% (95% CI: 72-79%) respectively. Pooled sensitivity for detection of which radiographers reported 50 or less training cases was 57% (95% CI: ases was 78% (95% CI: 74-81%). The current evidence does not support ring the single formal written reporting of CTC examinations. Radiographers' ppear to improve significantly with the number read. Therefore, when ng and experience, there may be a potential role for radiographers in the
lesions >5 mm in studies for v 52-61%) and more than 50 ca radiographers in a role involv performance, however, did ap	75% (95% CI: 72-79%) respectively. Pooled sensitivity for detection of which radiographers reported 50 or less training cases was 57% (95% CI: ases was 78% (95% CI: 74-81%). The current evidence does not support ring the single formal written reporting of CTC examinations. Radiographers' ppear to improve significantly with the number read. Therefore, when ng and experience, there may be a potential role for radiographers in the

A PDF copy of the full published article is attached.