## Lay summary for completed research projects

| CCR No and Study Title: | CCR3370  
Comparison of the diagnostic accuracy of 3D volume acquisition MRI with CT in staging colonic cancer |
|------------------------|---------------------------------------------------------------|
| CI and Sponsor names:  | Professor Gina Brown  
The Royal Marsden NHS Foundation Trust |
| Study opening date:    | 27/09/2010  
Study closing date:    | 31/03/2015 |
| Proposal and Objectives: | This plain language trial summary has been reproduced from the CRUK summary with permission.  
This study compared MRI scans and CT scans in bowel cancer to see which was more accurate in helping doctors see how far a cancer had spread.  
Doctors often use CT scans to check if bowel cancer has spread. MRI scans are much better at showing the slight differences between body tissues. But in the past MRI scans have been slow and the images have not been the best when looking at bowel cancer.  
The Royal Marsden has a more powerful MRI scan that can provide a much better picture of the bowel. The researchers compared the images from this more powerful MRI scan with images from a CT scan.  
The aim of this study was to find out if the new MRI scan was better than a CT scan in helping doctors to see if bowel cancer had spread. |
| Main Findings: | The study team found that the images from the MRI scan and CT scan were similar.  
55 people took part in this study. Everyone had a CT scan and two MRI scans before surgery.  
Two doctors who specialise in reading scans (radiologists) looked at the scans of each person separately. Overall for both radiologists there was no significant difference between the CT scan or MRI scans in being able to see how far the cancer had spread. |
| Implications for practice/future research: | The team doesn’t recommend that MRI scan is used instead of CT scan. But an MRI scan might be useful alongside a CT scan in certain situations. For example, when a patient can’t have the contrast medium used for the CT scan. |
| Dissemination Plan: | The findings of the study have been presented at an international conference. The principle outcomes have also been published in two articles in two peer reviewed journals; The British Journal of Radiology and Clinical Radiology. |