

alternative reason.

iRefer is a Clinical Decision Support (CDS) tool designed to assist healthcare providers when ordering radiology investigations within ICE. It is tailored to recommend the most appropriate examination based on the provided information and will activate when an investigation is chosen in ICE.

When choosing a test, the CDS tool "iRefer" will automatically launch, displaying a configured list relevant to the selected procedure. This acts as a hint list, presenting the top 10 most suitable reasons for the imaging request. If the desired reason is not shown in the list, there is a search field available to explore the entire library for alternative reasons.



Clinisys

ICE

Click on the 'Primary						
Reason'	👲 LAB VALUES 🛛 🗸		REQUESTED PROCEDURE CT Head			
	C IMAGING REQUEST HISTORY		PRIMARY REASON FOR IMAGING			
			Select from list below or enter search terms X Search (2)			
			• HEADACHE (ADULT) (IREFER)			
			O DEMYELINATING DISEASE (IREFER)			
			METASTATIC CANCER OF UNKNOWN ORIGIN: DIAGNOSIS (IREFER)			
			O DEMENTIA AND MEMORY DISORDERS (IREFER)			
			O TRAUMA, HEAD (IREFER)			
			O MAJOR TRAUMA (IREFER)			
	UU ANALYTICS DATA ~		C ACUTE STROKE (IREFER)			
	SUBMIT FEEDBACK		INTRACRANIAL SPACE-OCCUPYING LESION SUSPECTED (IREFER)			
	Ø HELP ✓					
	() HOW WE USE YO	UR INFO				
Dependent on the						
Primary Reason selected	AGE: 35 years old Sender: Male Sender: Male Sender					
you may need to answer additional questions before the system provides any recommendations	PRIMARY INDICATION Headache (Adult) (iRefer) ~ MORE DETAILS Image: Control of the second					
	ADDITIONAL QUESTIONS					
) ci	inical Red Flags				
		Recent (Onset and Rapidly Increasing Frequency and Severity of Headache			
		Associa	ted Dizziness, Lack of Coordination, Tingling or Numbness			
		Headact	ne Precipitated by Coughing, Sneezing or Straining			
		Patients	Patients with Malignancy or Who Are Immunocompromised			
		No Red F	Flags			



ELECTRONIC REQUESTING



Page 3 of 10





The Meaning of Scores will display.	Meaning Of Scores					
	Meaning of Recommendations The following rating scale is from the Royal College of Radiologists (RCR) UK.					
	The recommendations are designated as follows:					
	Indicated Investigations most likely to contribute to clinical diagnosis and management.					
	Specialised investigations are frequently complex, time-consuming and/or resource-in usually only be undertaken after discussion with the radiologist or according to locally					
	Non-routine investigations, usually only undertaken if a clinician provides cogent reasons and appropriate means of furthering the management of the patient. With certain clinical problems which may resolve with time correct to defer investigation.					
	Not Indicated Investigations for which the proposed rationale is no longer appropriate.					
	Procedure ? No score has been defined for this procedure for the patient's condition.					
	Levels of Classification of Evidence					

Clinisys ICE

Quick Reference Guide: using iRefer CDS for training

ELECTRONIC REQUESTING

Scroll down the screen to	the supporting evidence base rather than the importance of these recommendations to the clinical problem addres												
find levels of evidence	[4]												
information	 Any of the following: High-quality diagnostic studies in which a new test is independently and blindly compared with a reference standa appropriate spectrum of patients Systematic review and meta-analyses of such high-quality studies 												
							Any of the following:						
	 Studies with a blind and independent comparison of the new test with the reference standard in a set of non-cons confined to a narrow spectrum of patients 												
	 Studies in which the reference standard was not applied to all patients 												
	 Systematic reviews of such studies 												
	 [C] Any of the following: Studies in which the reference standard was not objective Studies in which the comparison of the new test with the reference standard was not blind or independent Studies in which positive and negative test results were verified using different reference standards Expert opinion 												
							In some clinical situations there are conflicting data within a large body of excellent scientific reports. Thus, no firm are given and the evidence is graded C. It should be noted that there are very few randomised, controlled trials that radiological procedures - they are difficult to perform and ethical approval may be denied. Assignment of evidence I of recommendations differs somewhat from those proposed by the Grading of Recommendations Assessment. Dev Evaluation GRADE Working Group as supporting evidence is generally not from therapeutic studies but from diagno which a Thornbury hierarchy may be more relevant.						
							<pre>✓ *Ok</pre>						
							Click the X or Ok to						
							return to the previous	i i i i i i i i i i i i i i i i i i i					
	screen												

Levels of Radiation



Page 5 of 10



Meaning Of Radiations ×					
What are the Radiation Levels?					
The use of radiological investigations is an accepted part of medical practice justified in terms of clear clinical benefits to the patient, which should far outweigh the small radiation risks. However, even small radiation doses are not entirely without risk. A small fraction of the genetic mutations and malignant diseases that occur in the population can be attributed to background radiation. Diagnostic medical exposures – the major source of man-made radiation – account for one-sixth of the total population dose.					
medical exposures - the major source of man-made radiation - account for one-sixth of the total population dose. The lonising Radiation (Medical Exposure) Regulations 2000 and 2006 (IR(ME)R) impose a responsibility on imaging departments to ensure that all exposures to ionising radiation are justified, and that doses are optimised. Organisations and individuals using ionising radiation must comply with these regulations. One important means of reducing the radiation dose is to avoid undertaking procedures unnecessarily (especially repeat examinations). IR(ME)R also introduces the concept of diagnostic reference levels (DRLs). These levels are based on dose data for a range of commonly requested procedures collected from a large number of UK departments, and are regularly updated. IR(ME)R requires all departments to set local DRLs for a range of standard examinations, and monitoring of performance against these levels is an important component of dose optimisation. Guidance on the establishment and use of DRLs has been drawn up by a multi-professional group, including the RCR. The effective dose for a radiological investigation is the weighted sum of the doses to a number of body tissues, where the weighting factor for each tissue depends on its relative sensitivity to radiation-induced cancer or severe hereditary effects. It thus provides a single dose estimate related to the total radiation risk, based on the dose distribution within the body. In these RCR UK referral guidelines, the doses have been grouped into broad bands to help the referrer understand the order of magnitude of radiation dose of the various investigations.					
Symbol	Typical Effective Dose (mSv)*	Examples	Lifetime Additional Risk of Cancer Induction / Exam		
Radiation Level	0	US; MRI	0		
	Meaning Of Radiation What are the R The use of radiologic which should far out of the genetic mutati medical exposures - The lonising Radiatio ensure that all exposi radiation must comp unnecessarily (espect vevels are based on d are regularly updated performance against has been drawn up by The effective dose for factor for each tissue single dose estimate In these RCR UK refer magnitude of radiatio	Preasing Of Radiations What are the Radiation Levels? The use of radiological investigations is an accepted part of which should far outweigh the small radiation risks. Howe of the genetic mutations and malignant diseases that occimedical exposures - the major source of man-made radiation. The Ionising Radiation (Medical Exposure) Regulations 200 ensure that all exposures to ionising radiation are justified radiation must comply with these regulations. One import unnecessarily (especially repeat examinations). IR/RER all evels are based on dose data for a range of commonly require regularly updated. IR/MEIR requires all departments to performance against these levels is an important component as been drawn up by a multi-professional group. Including the factor for each tissue depends on its relative sensitivity to an ange of commonly requires all departments to the total radiation risk. based on the set are total radiation risk. based on the set of a radiological investigation is the wind factor for each tissue depends on its relative sensitivity to ange to commonly requires and the sensitive to a radiation dose of the various investigation. In these RCR UK referral guidelines, the doses have been of magnitude of radiation dose of the various investigation. Interse RCR UK referral guidelines, the doses have been of the symbol Interse	<text><text><text><text><text><text></text></text></text></text></text></text>		

Clinisys ICE

Quick Reference Guide: using iRefer CDS for training

ELECTRONIC

REQUESTING

Page 7 of 10



Quick Reference Guide_7_ V1_ iRefer CDS for Training, for use by Kent and Medway Pathology and Radiology Networks Prepared by: Donna Payne IT & Applications Trainer Kent Community Health NHS Foundation Trust Date of Preparation: May 2025 Date of Review: May 2026



Page 8 of 10









Page 9 of 10



Page 10 of 10

