# An audit of staff knowledge of Royal College of Radiologists current recommendations on the management of mild to severe contrast medium reactions [QSI Ref: XR-513]

**Descriptor:**

An audit designed to ensure that all staff know how to manage the range of mild to severe contrast medium reactions.

**Background:**

Contrast medium reactions are common. While many reactions are mild, less common, life-threatening reactions require immediate specific and non-specific management.

The Royal College of Radiology has endorsed the 2016 RANZCR Iodinated Contrast Guidelines which make recommendations (amongst others) for the management of the following scenarios:

• Urticaria - mild or moderate

• Bronchospasm

• Hypotension +/- bradycardia

• Respiratory or circulatory collapse and/ or seizures

## The Cycle

**The standard:**

All staff answer correctly key questions on management of contrast reactions.

**Target:**

100% of all staff answer 100% of the key questions correctly.

## Assess local practice

**Indicators:**

Proportion of staff attaining 100% in quiz.

**Data items to be collected:**

1. Answers sheets from a quiz (suggested quiz attached) with allotted marks

2. Summary of answer sheets expressing proportion of staff that passed

**Suggested number:**

All frontline staff in a department, particularly those administering contrast media - this will vary from department to department.

**Suggestions for change if target not met:**

• Presentation to all clinical staff on these guidelines

• Staff then retake quiz after a suitable interval

**Resources:**

• Quiz – use attached or assemble a different quiz

• List of names of staff administering contrast media

[**management\_of\_mild\_and\_severe\_contrast\_medium\_questionnaire.docx**](https://www.rcr.ac.uk/sites/default/files/audit_template/management_of_mild_and_severe_contrast_medium_questionnaire.docx)DOC - 19.7 KB

**References:**

1. 2016 RANZCR Iodinated Contrast Guidelines (updated 2018) <https://www.ranzcr.com/college/document-library/ranzcr-iodinated-contrast-guidelines>
2. Emergency treatment of anaphylactic reactions Resuscitation Council (UK) 2008  <https://www.resus.org.uk/anaphylaxis/emergency-treatment-of-anaphylactic-reactions/>

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