

Administrative Manual, *Leadership Section*

Subject: Discontinuation of Metformin containing Medications Post Contrast Injection Procedure	Initial Approval Date: 5/19/2010
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JCAHO Standard: Patient safety	Last two reviews: 02/01/2017 Last revised date: 05/04/2018

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POLICY:

To ensure patients taking Metformin containing medications discontinue medication for 48hours after injection.

SCOPE:

PURPOSE:

PROCEDURE:

- The technologist will identify any Metformin containing medications that a patient may be taking prior to contrast injection.
- After contrast administration, the technologist will apply an orange armband to ED and Inpatients to notify staff that contrast media has been given. The orange armband should include when IV contrast was administered. The armband should be placed on the same arm as the patient's ID band.
- There are two categories for Discontinuing Metformin after contrast according to the ACR.
 - a. Category 1- In patients with no evidence of AKI and with $eGFR \geq 30$ mL/min/1.73m², there is no need to discontinue metformin either prior to or following the intravenous administration of administration of iodinated contrast media, nor is there an obligatory need to reassess the patient's renal function following the test or procedure.
 - b. Category 2- In patients taking metformin who are known to have acute kidney injury or severe chronic kidney disease (stage IV or stage V; i.e., $eGFR < 30$), or are undergoing arterial catheter studies that might result in emboli (atheromatous or other) to the renal arteries, metformin should be temporarily discontinued at the time of or prior to the procedure, and withheld for 48 hours subsequent to the procedure and reinstated only after renal function has been re-evaluated and found to be normal.

The following instructions are ONLY for Category 2 patients:

- The technologist will inform the patient that they will need to discontinue taking their medication for the next 48 hours. The technologist will give the patient an information sheet regarding this procedure and have them sign to acknowledge their understanding. A family member may sign in place of patient when necessary.

- The technologist is responsible to initiate the follow up care. The following steps will be followed depending on patient status.
 - a. Outpatient
 - i. The patient will sign a form documenting their understanding of the post contrast instructions:
 - 1. Patient will be given a copy of this form
 - b. Inpatient/Emergency Room Patients
 - i. The patient will sign a form, if able, documenting their understanding of the post contrast instructions:
 - 1. Patient will be given a copy of this form
 - 2. Form will be placed in the patient chart.
 - ii. The pharmacy will receive a “Pharmacy Stop Order” for the patient taking the Metformin-containing medication. Pharmacy will document in the EMR that the patient received an injection of contrast media.
- All above forms must be scanned into PACS with the patient imaging exam for documentation.