| Name of Policy: | Extravasations of Contrast | ~ |
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| Policy Number: | 3364-134-116 | THE UNIVERSITY OF TOLEDO |
| Department: | Radiation Oncology | |
| Approving Officer: | Chief Executive Officer – UTMC Chair – Radiation Oncology - UTMC | |
| Responsible Agent: | Technical Manager, Radiation Oncology | Effective Date: 7/1/2022 |
| Scope: | Radiation Oncology | Initial Effective Date: 6/1/2019 |
| New policy proposal Minor/technical revision of existing policy Major revision of existing policy X Reaffirmation of existing policy | | |

Introduction:

"Various forms of contrast media have been used to improve medical imaging. Their value has long been recognized, as attested to by their common daily use in imaging departments worldwide. Like all other Pharmaceuticals, however, these agents are not completely devoid of risk. "-ACR Manual on Contrast Media- Version 9, 2013

The majority of the following guidelines and policies are derived, many times verbatim, from the ACR Manual on Contrast Media Version 9, 2013. Additional references will be provided as needed or requested. The major purpose of these guidelines and policies is to assist attending and resident radiologists, technologists, and referring clinicians in recognizing and managing the small but real risks inherent in the use of intravenous contrast media utilized at the University of Toledo Medical Center.

As would be appropriate with any diagnostic procedure, preliminary considerations for the referring physician and the radiologist include:

1. Assessment of patient risk versus potential benefit of the contrast assisted examination.

2. Imaging alternatives that would provide the same or better diagnostic information.

3. Assurance of a valid clinical indication for each contrast medium administration.

Policy for Extravasations of Contrast:

A. Purpose:

Improve patient safety through standardized treatment and documentation following a contrast extravasation.

B. Scope:

All health care professionals involved in caring for patients with iodinated or gadolinium-based contrast extravasation.

C. Procedure:

I. Treatment of extravasations is generally palliative. Typically, the initial treatment of the extravasation site should include: a. Elevating the affected extremity above the heart. b. Ice packs may be applied to the site for a period of 10-20 minutes and then intermittently.

II. The observations should include, but are not be limited to:

- a. Increasing swelling or pain.
- b. Altered tissue perfusion.
- c. Skin blistering.

III. Observation and intervention will be documented by the Radiologist or Radiology Resident on the Contrast Extravasation Form (see separate document), which will then be scanned into the Radiology Information System (RIS). Documentation in the radiology report is recommended.

IV. The length of outpatient observation time will be at the discretion of the treating physician, but no less than 30 minutes. The nurse, technologist, or assistant technologist in the examination room may observe patients.

V. Following the initial observations and treatment, inpatients with contrast extravasations will subsequently be managed on their own units.

VI. Patients who develop significant clinical symptoms or have extravasation greater than 100 ml should be seen in consultation with the plastic surgery service. These symptoms would include: a. Skin blistering. b. Decreased capillary refill. c. Increasing or persistent pain after one hour.

VII. Discharge instructions should be given to the outpatient. This should include the radiology phone number to call during the day and after routine working hours, along with what signs and symptoms should be observed.

See separate document for contrast extravasation form.

| Approved by: | | Review/Revision Date: 7/1/2022 | |
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| /s/ Mersiha Hadziahmetovic, MD Associate Professor & Chair, Radiation Oncology | 07/08/2022 Date | | |
| /s/ Richard P Swaine Chief Executive Officer | 07/08/2022 Date | | |
| Review/Revision Completed By: Michelle Giovanoli | | Next Review Date: 7/1/2025 | |
| Policies Superseded by This Policy: 38-17 | | | |