

Carilion Roanoke Memorial Hospital
Trauma Services

*WVEMS Regional PI Committee
Intra-osseous Study*

I. Purpose

- A. To evaluate the regional trauma patient population who received intra-osseous (IO) placement by EMS in order to determine if opportunities for improvement exist.

II. Data Collection Process

- A. CRMH Trauma Registry was queried from July 1, 2007-March 31, 2008 to identify patients who had received IO placement by EMS.

III. Results

- A. Sample total: 5
 1. Pediatric (0-18 years): 1 patient
 2. Adult (> 18 years): 4 patients
- B. EMS Agencies:
 1. Carilion Life-Guard 10/11: 3 patients
 2. Roanoke City EMS: 2 patients
- C. IO Indication:
 1. Traumatic Cardiac Arrest: 3 patients
 2. Hypotension with Multi-System Trauma: 2 patients
- D. Outcome
 1. Expired: 4 patients
 - a) ED Deaths: 3 patients
- E. Complications Related to IO Placement
 1. None identified from chart review.

IV. Action Plan

- A. Report findings to WVEMS Regional PI Council for inclusion into regional sample.

Respectfully Submitted,
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QM Coordinator
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