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The utilization of contrast products outside the operating room: clinical audit

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BACKGROUND AND GOAL OF STUDY

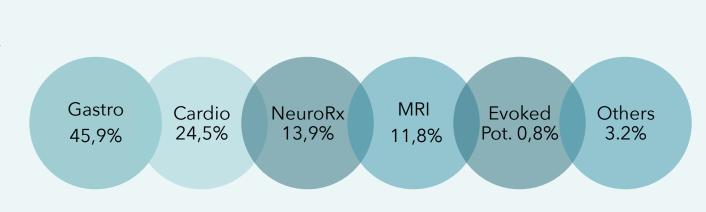
- The incidence of contrast related adverse events is about 5-15%. Previously known allergies increase 3 to 5-fold allergic reaction risk. Arterial hypertension, age ≥75 years, low haematocrit, diabetes, dehydration, aortic balloon pump and the use of nephrotoxic drugs are established risk factors (RF) for contrast induced nephropathy (CIN).
- Anaesthesia outside the operating room (OOR) has grown in the past few years, as the complexity of performed procedures.
- Our goal was to perform a clinical auditory in our population, identifying the prevalence of RF to adverse events related to contrast administration, allowing for their anticipation and prompt medical treatment.

MATERIALS AND METHODS

- ☐ Clinical auditory to the OOR anaesthetic records between 2014 and 2015.
- □ Descriptive analysis of sociodemographic variables, clinical and analytical status, ASA classification and use of contrast.

RESULTS AND DISCUSSION

- \checkmark 2821 patients were submitted to OOR procedures ;
- √ 60.2% of procedures were performed in ambulatory regimen;
- √ 6.7% of procedures were emergent;
- √ 10% of patients were under 15 years of age and 69% over 50;
- √ 92% of patients were ASA >1;
- ✓ Comorbidities



Cardiovascular 48% Metabolic/Endocrine 37%

Hepatogastric 21%

Respiratory 18%

Contrast was administered in 39.1% of patients (mean volume of 45.3ml)

Risk factors for CIN

Risk factors for allergic reactions

Pre-existing renal disease: 8%

Previous allergic reaction history:

Mean creatinine level: 1,45 mg/dL

Mean haemoglobin level: 10.6 g/

CONCLUSION

RF identification allows for the implementation of prophylactic measures and therapeutic plans, in case of need. All OOR locations should be ready to handle critical events. Clinical auditory promotes continuous improvement, specially in unusual workplaces.

REFERENCES