



The Impact of Pre-Transfer CT Scans on Pediatric Trauma Outcomes

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CT Prior to Transfer

- Fenton et al (2004)
 - 9% repeat CT
 - Increased field time (5:21h vs. 4:14h)
- Cook et al (2010)
 - 18% repeat ABD CT
 - 5 mSV in additional radiation
 - \$3055
- Benedict et al (2014)
 - 66% of CT met criteria for immediate transfer

Patients

- 2009-2013
- 246 patients
- Mean age 12.4 ± 5.4 years
- 64% male
- 128 C/A/P CT prior to transfer
 - 60% met criteria for immediate transfer
 - 14% of CTs were repeated at PTC
- 118 C/A/P CT upon arrival

	Pre-transfer CT	Post-transfer CT
ISS	14.5 ± 9.5	12.4 ± 8.9
Time to arrival (h)	5.3 ± 3.6	3.5 ± 2.5
Surgery	7%	1%
ICU LOS (d)	1.9	1.9
Total LOS (d)	5.3	6.5
Mortality (%)	3%	3%

Future work

- CT use at our regional referral hospitals
 - Who is getting pre-transfer CTs?
 - Who isn't transferred b/c of scan results

Conclusions

- Large number of blunt trauma patients undergo CT prior to transfer
- CT prior to transfer delays definitive care and results in an increase of scans
- This delay does not appear to impact outcomes

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Questions

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