

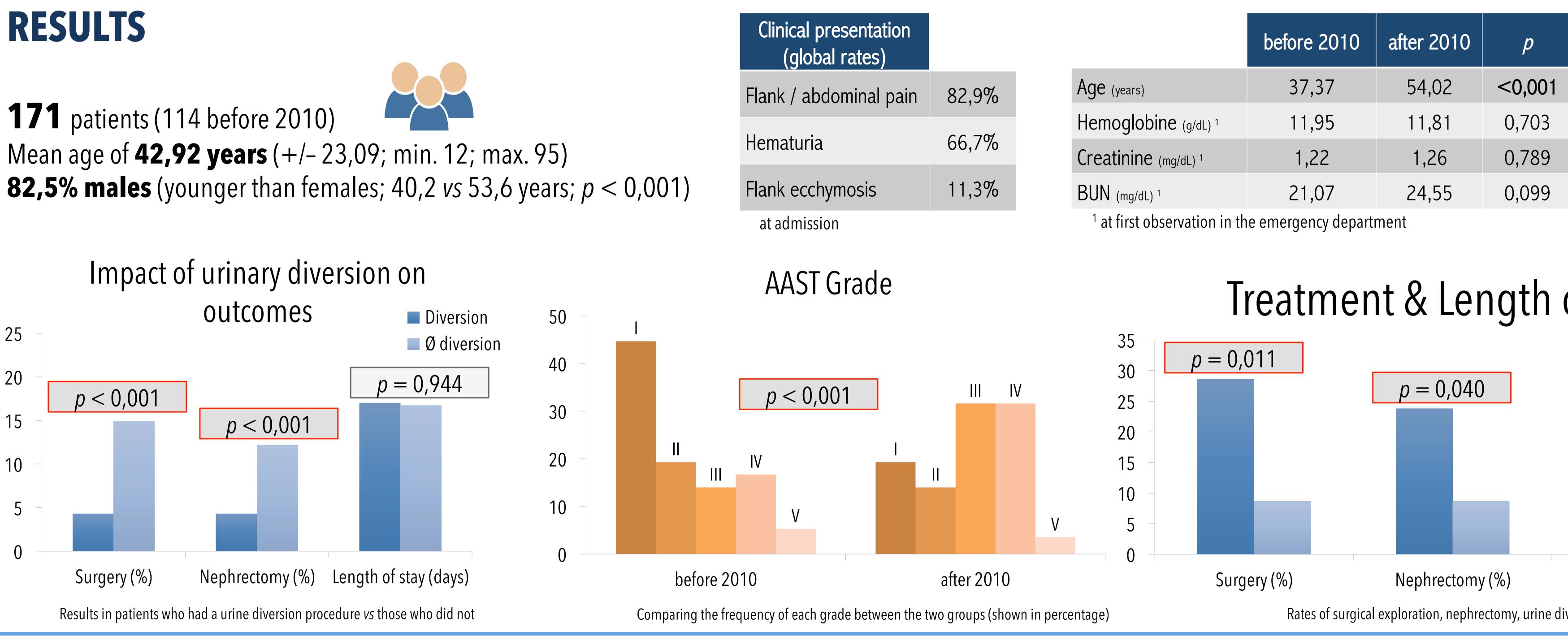
RENAL TRAUMA WHAT CHANGED IN THE PAST DECADE

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INTRODUCTION

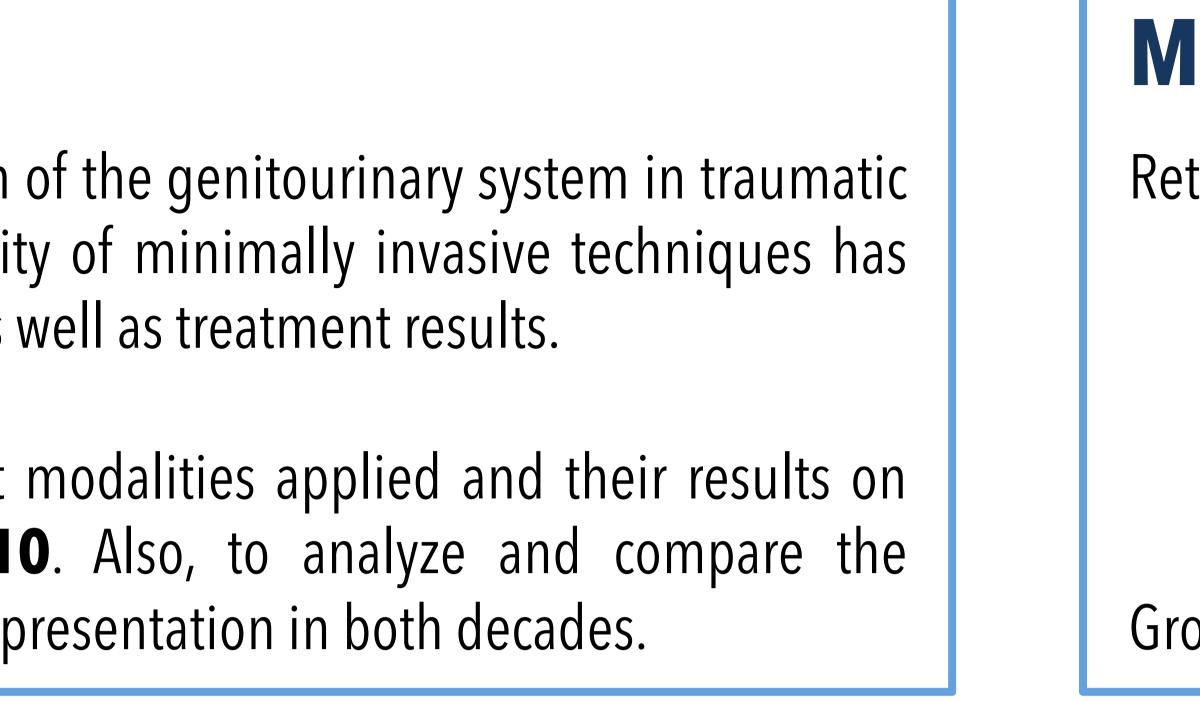
The **kidney** is the most commonly affected organ of the genitourinary system in traumatic injuries (1-5% of all trauma cases). The availability of minimally invasive techniques has changed the paradigm of how it is approached, as well as treatment results.

Objectives: To compare the different treatment modalities applied and their results on renal trauma patients **before** and **after 2010**. Also, to analyze and compare the demographics, trauma characteristics and clinical presentation in both decades.



CONCLUSIONS

After 2010, the tendency towards a more **conservative approach** to renal trauma patients was increasingly more evident. Patients who had urine diversion procedures were less operated on, and did not have their hospital stay prolonged. Significantly less surgical explorations were performed, even though patients were older and had more severe traumas. **Renal preservation rate** was higher and **length of hospital stay** was shorter in the most recent group.



MATERIALS & METHODS

Retrospective study of renal trauma patients between January/2000 e September/2016

- **Demographics** (age, gender)
- Mechanism and conditions surrounding the trauma
- **Grading** (according to the American Association for the Surgery of Trauma AAST scale)
- **Clinical status** at admission
- **Treatment** modality and rate of **renal preservation**

Groups compared: renal trauma occurring **before** and **after 2010**

	before 2010	after 2010	p	Invasive treatment (global rates)
Age (years)	37,37	54,02	<0,001	Surgical exploration 13,5%
Hemoglobine (g/dL) ¹	11,95	11,81	0,703	
Creatinine (mg/dL) ¹	1,22	1,26	0,789	Nephrectomy ¹ 11,1%
BUN (mg/dL) ¹	21,07	24,55	0,099	Selective embolization ² 3,5%
$ \begin{array}{c} 35 \\ 30 \\ 25 \\ 20 \\ 15 \\ 10 \\ 5 \\ 0 \end{array} $		p = 0,040		² All after 2010 of stay per group = before 2010 = after 2010 p = 0,003 p = 0,044
	Jery (%)	Nephrectomy	(%)	Urine diversion (%) Length of stay (days)
entage)		1 1		version procedures and length of hospital stay







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