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PORTON PUMP INHIBITORS induced nephrotoxicity

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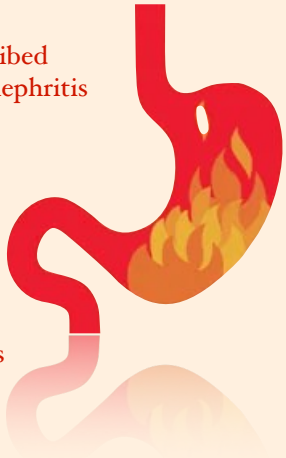
BACKGROUND:

Proton pump inhibitors (PPIs) effectively block gastric acid secretion and are among the most prescribed drugs in the world. They are perceived to be safe with a low side effect profile. However, interstitial nephritis (IN) is increasingly recognized as a complication of these drugs.

This work aim to: present the clinico-biological and histological characteristics as well as the diagnostic circumstances and evolution of patients presenting with IN secondary to PPIs.



METHODS:

A Descriptive cross-sectional study carried out in the nephrology department of the MOHAMMED VI UNIVERSITY HOSPITAL OF OUJDA, including cases of IN induced by PPIs retrospectively studied between March 2021 and September 2022.

RESULTS:

- **10 cases of IN .**
- **Median age : 53+/- 7.8.**
- **Sex ratio M/F:** 2.3

- **Extra-renal manifestations : arthralgia/ convulsion/ rash**

- **Leukocyturia (+) in 100% of cases**

CORTICOTHERAPY
- Total of 8 patients
- Delay of administration : 15 days
- 3 days bolus —> oral CS

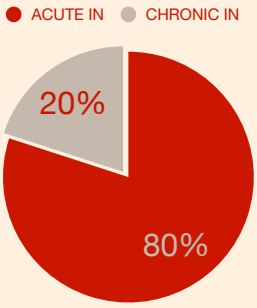
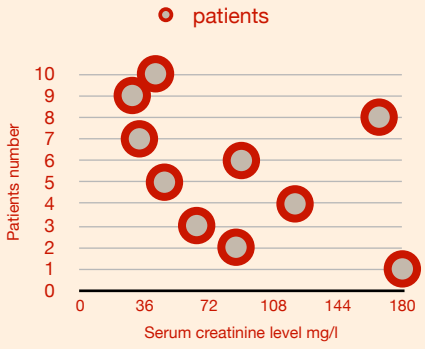


Figure 1: histology



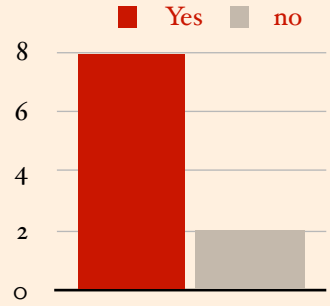
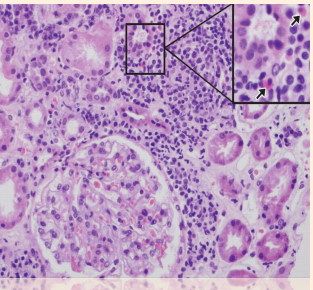


Figure 2: renal function recovery after corticosteroids



DISCUSSION & CONCLUSION:

Drug induced interstitial nephritis should be considered in front of any frequent drug intake and especially PPIs. Renal recovery is usually complete after administration of short-term, early corticosteroid therapy.

REFERENCES:

1- Sampathkumar K, Ramalingam R, Prabakar A, Abraham A. Acute interstitial nephritis due to proton pump inhibitors. Indian J Nephrol. 2013 Jul;23(4):304-7. doi: 10.4103/0971-4065.114487. PMID: 23960351; PMCID: PMC3741979.