EPIDEMIOLOGY OF NEPHROPATHIES IN IRREGULAR IMMIGRANTS IN NORTHERN ITALY

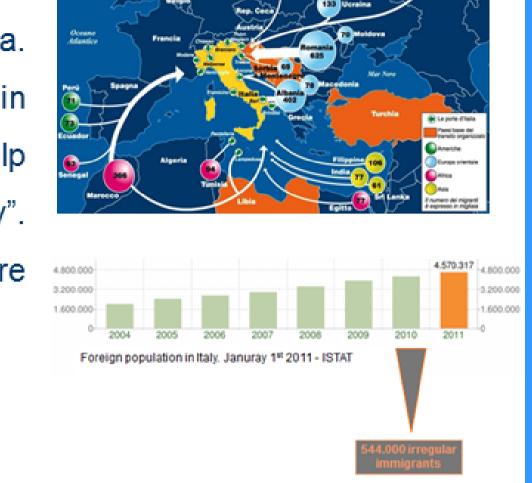
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INTRODUCTION AND AIM OF THE STUDY

Free movement within the European Union is granted by the Schengen Agreement. Transnational trips are expected to increase in 2014 with the possible The World Health Organization stated that "there is a need to assess trends in migrants' health by improving country health information systems, which can help identify service delivery". Data regarding the incidence of specific nephropathies in immigrants are lacking.



http://www.tuttitalia.it/statistiche/cittadini-stranieri-2011/

Incidence of kidney disease in subsaharian Africa is estimated around 10.8%, but epidemiologic studies are lacking. Barsoum, KI 2003

Aim of our study was to evaluate the prevalence of renal disease in irregular immigrants in Turin coming to ISI facilities of our hospital (Informazione Salute Immigrati – Health Information for Immigrants).

Family history of renal

Macrohaematuria

disease

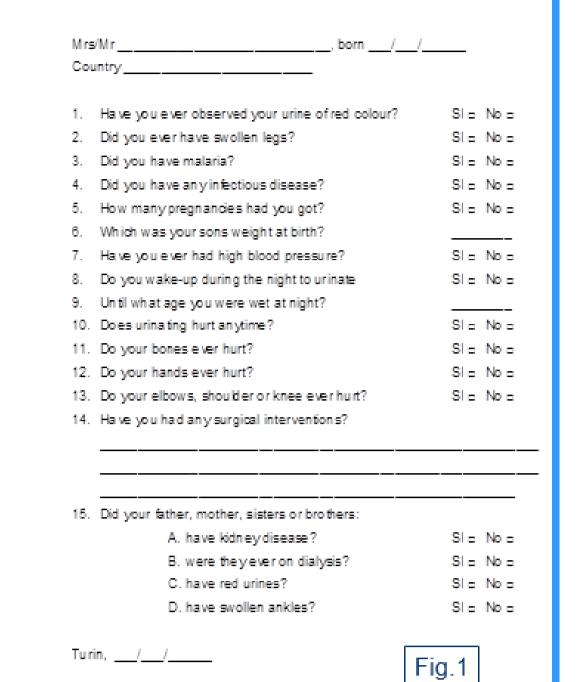
Nocturia

METHODS

A 7 language questionnaire-based survey (Fig. 1) was administered regarding signs, symptoms and familiarity for renal disease. The study also included direct assessment of GFR with EPI equation, urinalysis and blood pressure measurement.

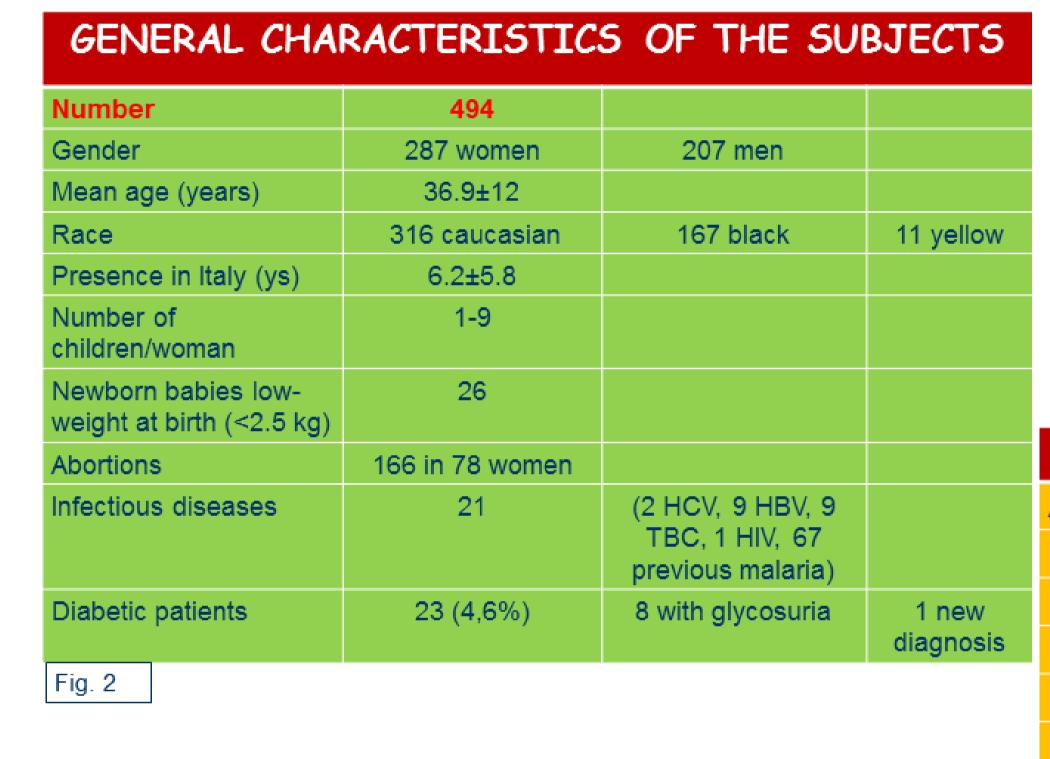
1) Serum creatinine (SCr) measurement 2) Glomerular Filtration Rate evaluation (EPI formula) 3) Urine analysis and sediment 4) Arterial blood pressure

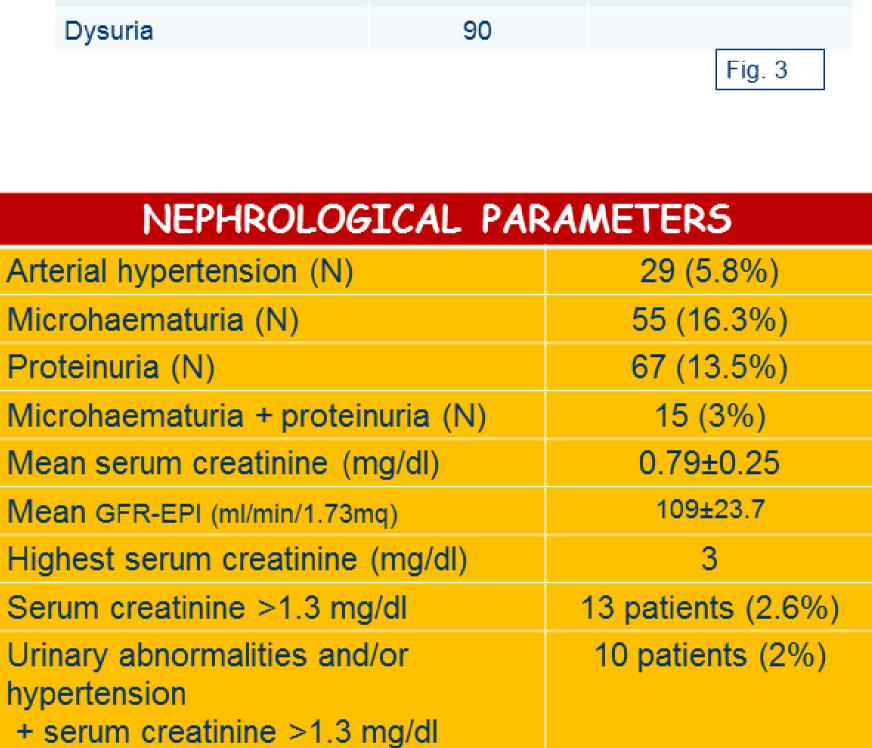
Patients were summoned if abnormalities were found





The study was sponsored by the Italian Society of Nephrology and conducted in the health reception facility for immigrants of our Hospital from January 2012 to December 2012.





ELEMENTS REPORTED BY THE PATIENTS

Reported: 31

50

True 4: 2 stones, 2

Fig.4

PKD

RESULTS

Data regarding 494 irregular immigrants (287 women, 207 men), mean age 36.9±12 years, 167 black, 11 Asians, and 316 Caucasians living in Italy for 6.2±5.8 years, were examined. Four people had familial nephropathies (2 kidney stone diseases, 2 Autosomal Dominant Polycystic Disease).

See Fig. 2 and 3 for general characteristics of the patients and the data reported by

Arterial hypertension was found in 29 subjects (5.8%).

Mean serum Creatinine (sCr) was 0.79±0.25 mg/dl (range 0.6-3 mg/dl), mean GFR-EPI 109±23.7 ml/min/1.73mq. 13 patients (2.6%) presented renal failure (RF), 10 of whom also had urinary abnormalities and/or hypertension.

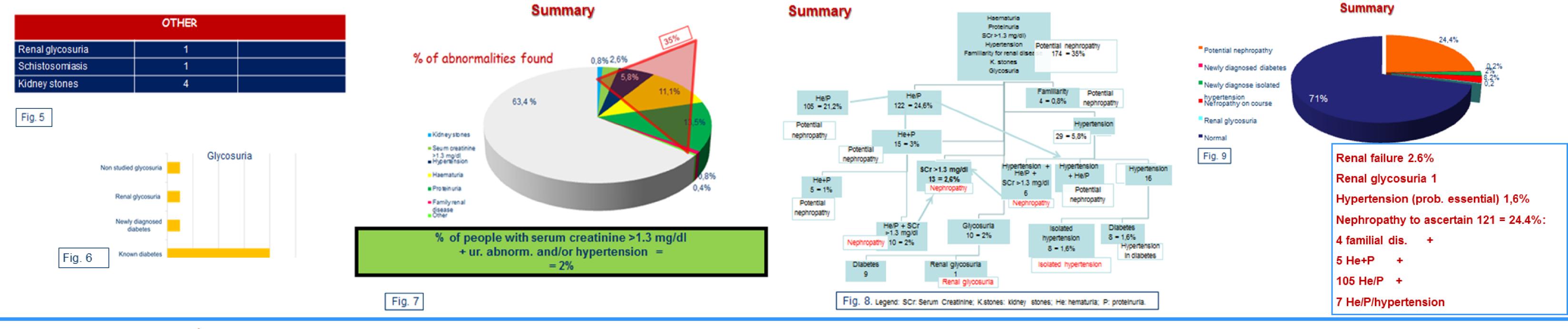
Haematuria was found in 55 subjects (11.1%), proteinuria in 67 (13.5%) and both hematuria and proteinuria (without RF) in 15 (3%). See Fig. 4.

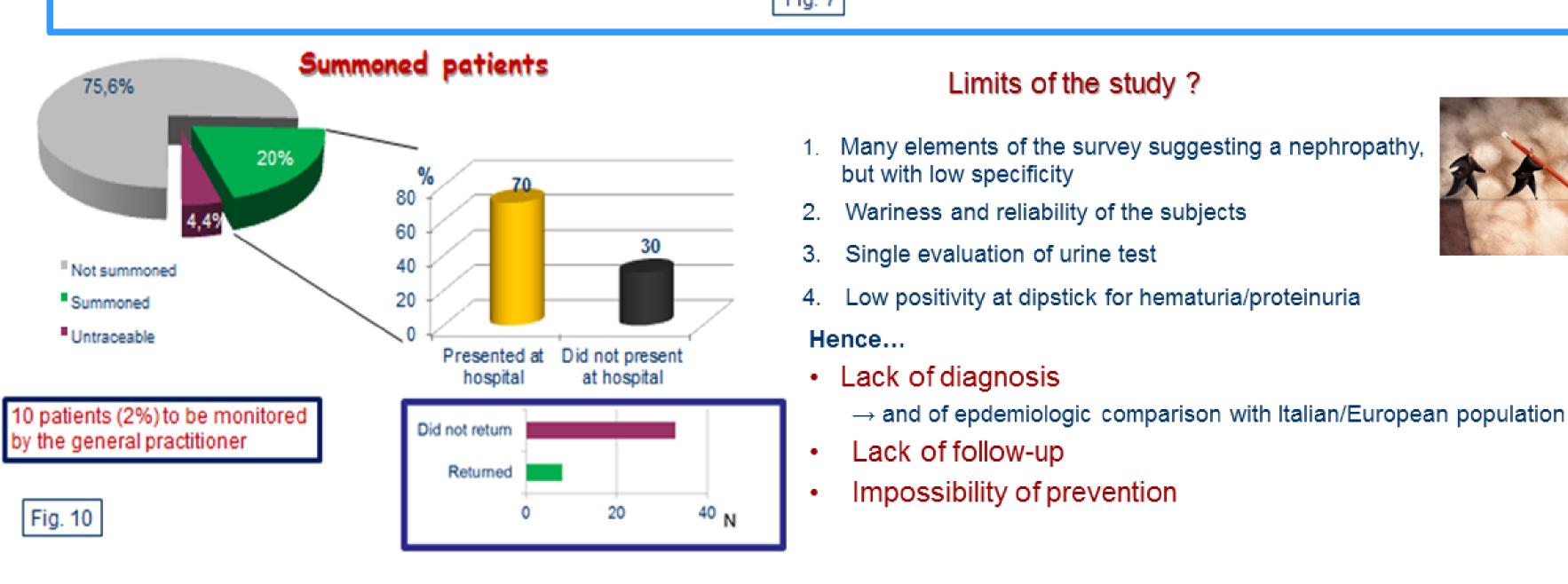
Eight subjects had glycosuria, one due to previously unknown diabetes and one to renal glycosuria. A case of urinary eggs of Schistosoma mansoni was detected. Four patients had kidney stones.

See Fig. 7,8 and 9 for summary.

See Fig. 5 and 6.

99 patients (20%) were summoned (30 did not turn up): 41 needed nephrologic followup, but only 8 showed up a second time. See Fig. 10 and 11.





CONCLUSIONS

Signs of nephropathy were detected in 116 (23.4%) irregular immigrants, a figure much higher than the epidemiologic expectancy of 39 cases among the Italian population residing in the same area.



Poster

presented at:

