





The Leeds **Teaching Hospitals NHS Trust**

MANAGEMENT OF HYPOPARATHYROIDISM AGAINST EUROPEAN GUIDELINES: EXPERIENCE OF A LARGE TEACHING HOSPITAL

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INTRODUCTION & AIMS

- Hypoparathyroidism is a rare endocrine condition which until recently had no therapeutic hormone replacement¹.
- The mainstay of current treatment is the use of vitamin D analogues and calcium supplements to maintain serum calcium¹.
- As a result of complications associated with current therapy, careful

MONITORING GUIDELINES

The percentage of patients achieving ESE guidelines

ESE guideline	% patients meeting target
Serum calcium in most recent 12	47

monitoring of biochemical and radiological parameters is required.

• The aim of this research is to evaluate current management of hypoparathyroidism of a large cohort against European guidelines² with the view to identifying those with sub-optimal control who may benefit from recombinant parathyroid hormone³.

METHODS

- 164 adult patients with hypoparathyroidism were identified.
- A retrospective design was used to analyse data between 2012-2017 including patient demographics, metabolic control, treatment, monitoring and complications.

RESULTS

DEMOGRAPHICS

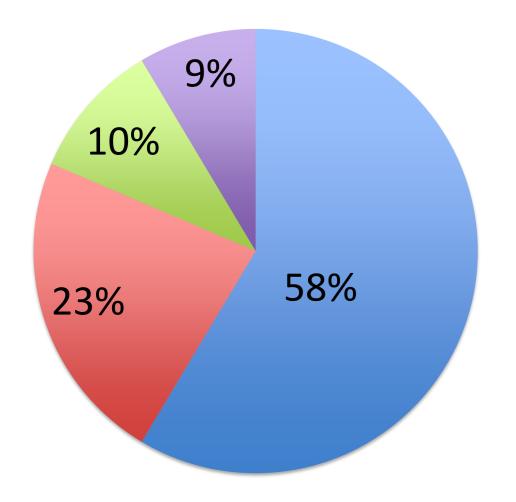
- 70.1% female patients
- Mean age: 56.1 years +/- 16.62

Aetiology of hypoparathyroidism

months (2.1-2.3mmol/L)	
Serum phosphate in most recent 12 months (0.8-1.5mmol/L)	81
Mean 24 hour urinary calcium levels in range	69
24 hour urine calcium measured every 2 years	30
Symptoms recorded in most recent clinic letter	54
Renal ultrasound performed between 2012-2017	49

COMPLICATIONS

- 50% of patients remained symptomatic to some degree at the most recent review.
- 24% of patients had renal complications including renal calculi, ullet



Surgical 88.5%

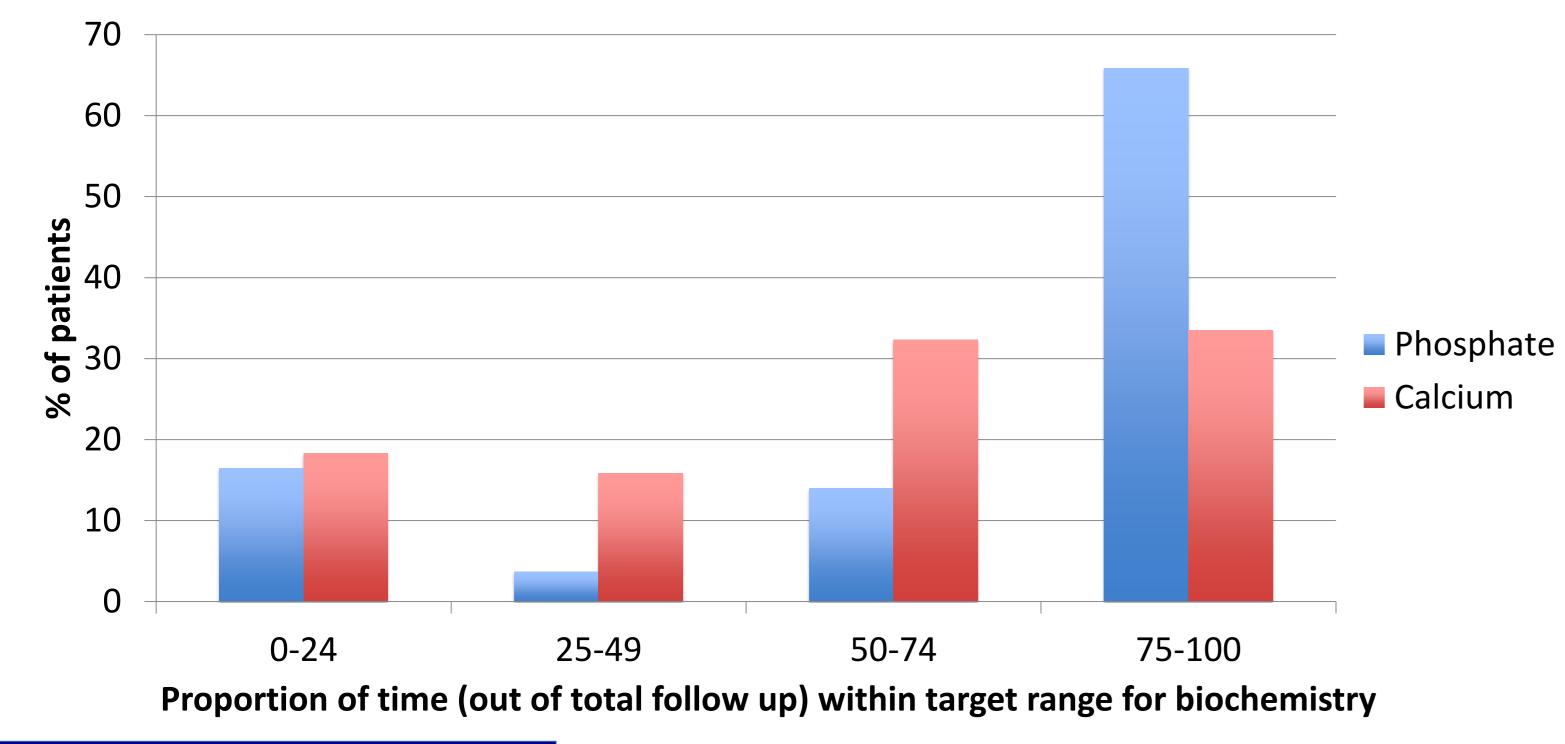
Autoimmune 7.2%

Genetic 2.2%

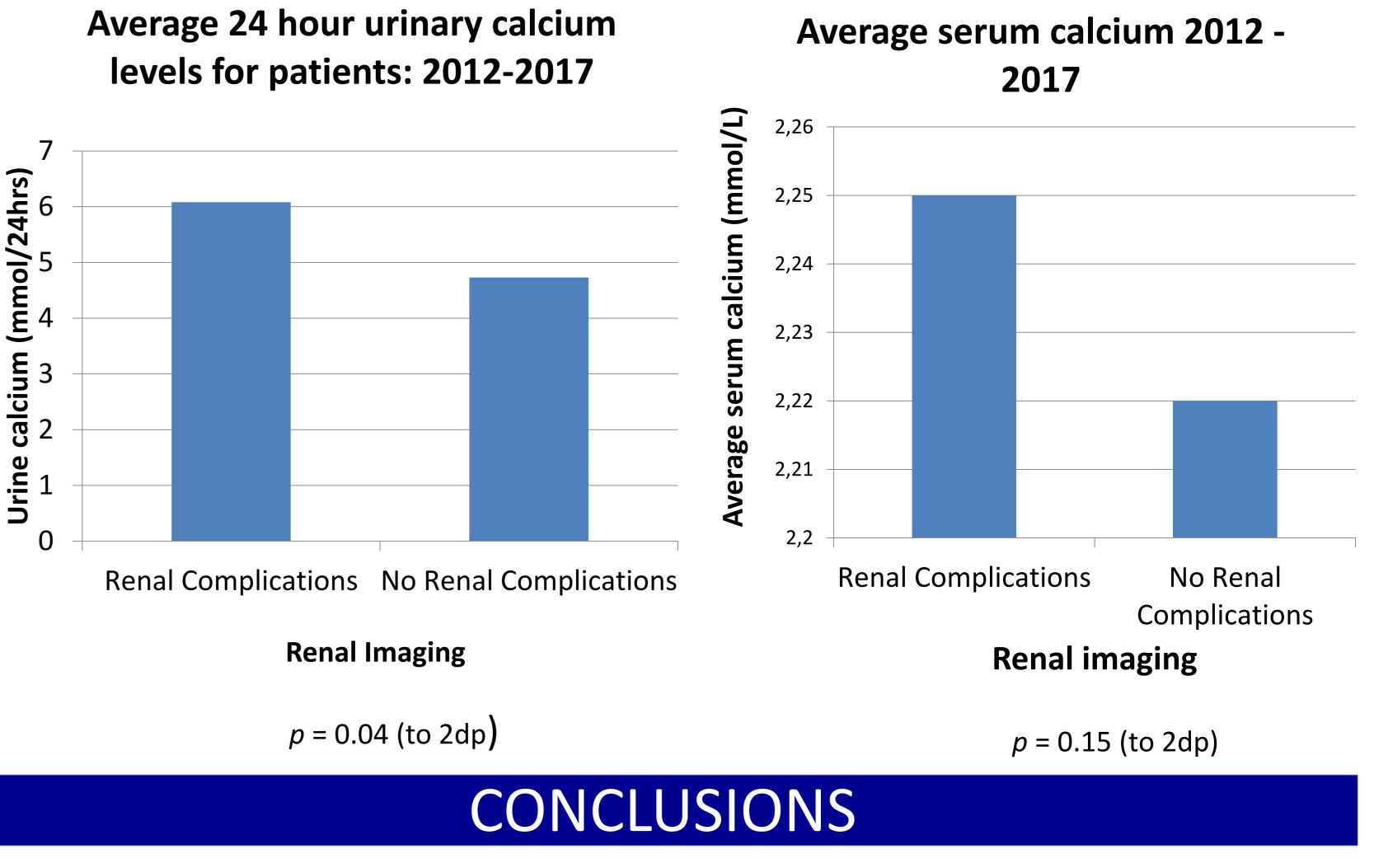
Other

METABOLIC CONTROL

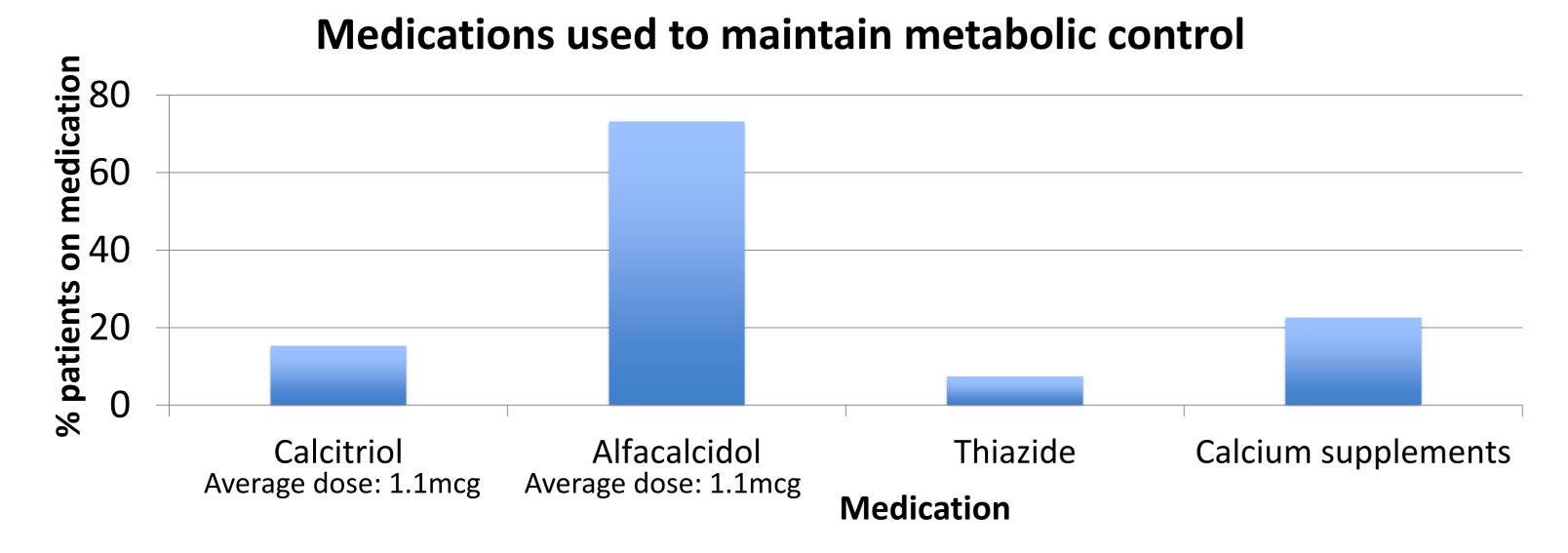
Metabolic control: Proportion of time within target biochemical range per patient



nephrocalcinosis or both



MANAGEMENT



- Management of hypoparathyroidism in this large cohort was challenging in terms of achieving metabolic control, monitoring patients and prevention of complications.
- A significant proportion of patients remain symptomatic and have evidence of renal complications.
- This data highlights an unmet need in this population for novel therapies, which may offer improved biochemical and symptomatic control.



1) Monis EL, Mannstadt M. Hypoparathyroidism – disease update and emerging treatments. Ann Endocrinol (Paris) [Internet]. 2015 May [cited 2017 Oct 11];76(2):84–8. Available from: http://linkinghub.elsevier.com/retrieve/pii/S000342661500030X 2) Bollerslev J, Rejnmark L, Marcocci C, Shoback DM, Sitges-Serra A, Van Biesen W, Dekkers OM. European Society of Endocrinology Clinical Guideline: Treatment of chronic hypoparathyroidism in adults. European Journal of Endocrinology. 2015 Aug 1;173(2):G1-20.

3) Mannstadt M, Clarke BL, Vokes T, Brandi ML, Ranganath L, Fraser WD, et al. Efficacy and safety of recombinant human parathyroid hormone (1–84) in hypoparathyroidism (REPLACE): a double-blind, placebo-controlled, randomised, phase 3 study. Lancet Diabetes Endocrinol [Internet]. 2013 Dec 1 [cited 2017 Oct 25];1(4):275–83. Available from: http://linkinghub.elsevier.com/retrieve/pii/S2213858713701062

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