## Reference for Management of low Immunoglobulin levels in Adults

## What are Immunoglobulins?

palpable splenomegaly - liaise with

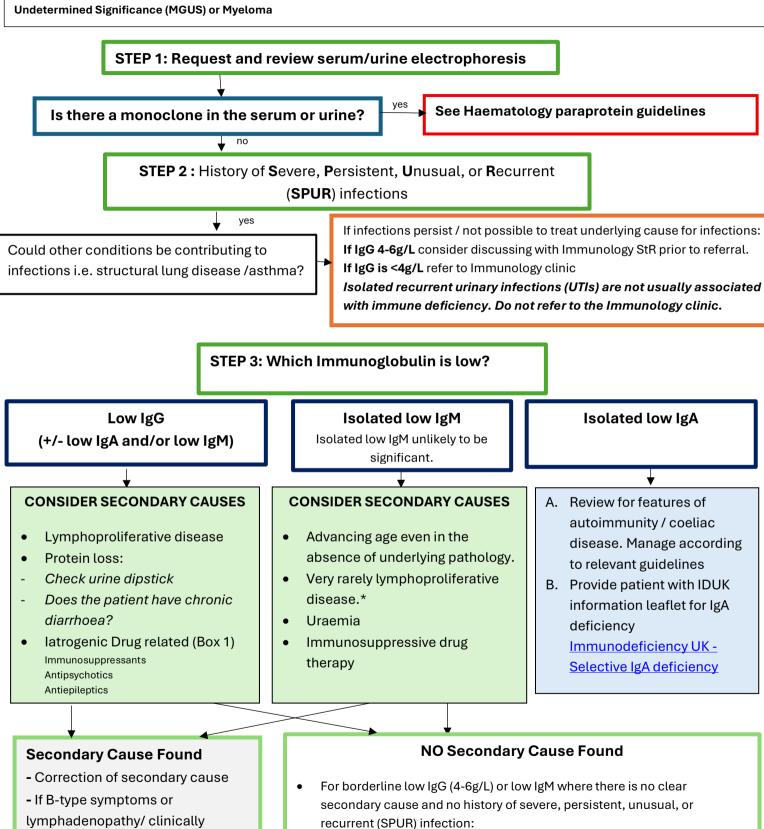
- If it cannot be corrected follow

Haematology

Immunoglobulins are proteins made by B cells and Plasma cells that help protect against infection.

The standard immunoglobulin profile consists of Immunoglobulins IgG, A and M.

In Sheffield Immunology laboratory we routinely perform serum electrophoresis on all Immunoglobulin requests. Serum electrophoresis may identify evidence of monoclonal Immunoglobulin (overproduction of a single immunoglobulin by one specific plasma call population). This is known as a monoclone or paraprotein and can be seen in conditions such as Monoclonal Gammopathy of Undetermined Significance (MGUS) or Myeloma



It is likely that these are incidental findings.

annually

**Immunology** 

Recommend monitor serum Immunoglobulins and urine electrophoresis

If IgG <4g/L or SPUR infections or panhypogammaglobulinemia - refer to

Box1: Drugs that can cause Low IgG		
Immunosuppressants	Antipsychotics	Antiepileptics
Abatacept Azathioprine Cyclophosphamide (Other alkylating agents) Gold D-Penicillamine Methotrexate Mycophenolate Prednisolone Rituximab (other B cell depleting treatment) Imatinib Sulphasalzine	Chlorpromazine Clozapine	Carbamazepine Lamotrigine Phenytoin Sodium Valproate

## **Sources of further information:**

- 1. IDUK Website: Information on immune deficiencies <a href="http://www.immunodeficiencyuk.org/">http://www.immunodeficiencyuk.org/</a>
- 2. Sheffield Protein Reference unit website: <a href="https://www.immqas.org.uk/TestItem.asp?id=487">https://www.immqas.org.uk/TestItem.asp?id=487</a> Information regarding sample requirements, reference ranges and interpretation of Immunoglobulin results

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