TRANSIENT POLYARTHRITIS WITH CARBIMAZOLE TREATMENT

Dr.Madhavi Madhusudhana, Dr.Elaine Baguley, Dr.Mary Barraclough, Dr.Sanjay Gupta
DEPARTMENT OF PAEDIATRICS

HULL ROYAL INFIRMARY HULL UK

- o Carbimazole forms the mainstay of medical management of hyperthyroidism in children.
- Development of arthralgia or arthritis after starting antithyroid medication can be a disabling side effect.

CASE PRESENTATION

- An active and sporty 10 year old girl with background of asthma
- Presented with clinical and biochemical features of primary hyperthyroidism and positive thyroid antibodies.
- She was started on Carbimazole at a starting dose of 10 mg BD.
- Within 10 days of treatment she started experiencing significant multiple joint pains unresponsive to NSAIDS making her wheelchair-bound over the next few weeks.
- Her auto-antibody screen, including anti-neutrophil cytoplasmic antibody (ANCA) was negative.
- Her symptoms settled down within 4 weeks of stopping Carbimazole.
- Her hyperthyroidism is currently being managed using propylthiouracil and she is waiting to undergo definitive treatment.

DISCUSSION

CONCLUSIONS

Arthralgia after commencing thionamides (propylthio-uracil or carbimazole) is a side effect seen in 1-5% of patients.

It can progress into antithyroid arthritis syndrome or could be a part of ANCA positive vasculitis.

- Development of arthralgia on antithyroid medication should warrant stopping the medication and immediate investigation to rule out ANCA positive vasculitis.
- Symptoms of transient migratory polyarthritis or antithyroid arthritis syndrome usually subside on discontinuation of treatment.
- More definitive treatment options should be discussed with family, while maintaining the patient on alternative antithyroid medication as a temporary measure

REFERENCES

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