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Assessing Iron Concentration in Pediatric Multivitamin Preparations in Mafraq Hospital to Prevent Possible Iron Toxicity

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Background

Vitamin D is routinely prescribed to all babies after discharge from Maternity ward as per AAP guidelines. During the pediatric grand round meeting, a point was raised as many pediatric physicians were not prescribing multivitamins to children due to fear that they contain high concentration of iron

AIMs

Our aim was to assess the concentration of iron content in pediatric multivitamin preparations available in Mafraq Hospital pharmacy and increase physician awareness in the pediatric department to allow pediatricians to prescribe the multivitamins to their patients if needed.

Methods

A collaboration was made with the clinical pharmacists in Mafraq Hospital and all pediatric multivitamin preparations were assessed for their iron content. A review of the electronic medical records was made to correlate preparations of pediatric multivitamins available in Mafraq Hospital with the orders shown on the system.

Name of productIn the pharmacy	For m	Contents of vitamin D and iron	Name in Cerner	Availabil ityIn pharmacy
Pediavit oral solution Cholecalciferol (vitamin d 3)	solution	Each 1 ml has 400 units of vitamin D3	Cholecalcifer ol Oral liquid	Available
Provita D2 oraldrops	Oral drops	Each drop has 200 units of vitamin D2	Ergocalciferol oral	Available
Multi-Delyn Liquid (multivitamin)	solution	Each 5 ml contains: Vitamin D 360 IU No Iron	Multivitamin solution	Available
Mixavit syrup	solution	Each 5 ml contains: Vitamin D 500 IUNo Iron	Mixavit oral solution	Available
Mixavit oral drops	drops	Each 0.6 ml contains: Vitamin D 400 IU No Iron	Mixavit drops	Available
Poly-Vi-Sol Drops	drops	Each drop contains: Vitamin D 400 IU Iron 10 mg	Poly-vi-sol (multivitamin)Drops	Not available

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Results

Analysis revealed three pediatric multivitamin preparations available in Mafraq hospital in oral

solution or drops form none of which contained iron.

The only oral solution that contained high concentration of iron was discontinued in our hospital. After

confirmation with the pharmacy, a report was taken to the electronic medical records department and

the name of the multivitamin preparation that is not available was removed from the electronic medical

records program used in the hospital.

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Conclusion

Clarification that multivitamin preparations in oral solution or drop form does not contain iron has

helped pediatricians in Mafraq Hospital prescribe those preparations without worrying about possible

iron toxicity in their patients.