Case Study: Successful Prophylactic Use of Coagulation Factor X in an Infant Patient in the Home Environment

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PURPOSE / OBJECTIVES

Factor X deficiency is a rare bleeding disorder that requires long-term management. The female infant discussed within this case study, Patient A, was diagnosed with severe factor X deficiency two days after birth. Therapy with prothrombin complex concentrate (PCC) was initiated until factor X concentrate was approved by the insurance provider.

After initially receiving twice-weekly factor X concentrate infusions at her local pediatric Hemophilia Treatment Center (HTC) for prophylaxis of bleeding episodes, infusion therapy was transitioned to the home environment at one month old. The purpose of this case study is to highlight the successful long-term, effective use of factor X concentrate in a female infant patient in the home environment.

MATERIALS & METHODS

A retrospective review of medical records was performed by a multidisciplinary team from June 9, 2017, through January 23, 2020. The review included customized clinical assessments specific to bleeding disorders that were performed by the specialty infusion pharmacy, as reported through the proprietary clinical outcomes program SoleMetrics®. The review also included progress notes, nursing visit assessments, and hospital and physician office visit notes.

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RESULTS

The patient was able to successfully receive treatment in her home and travel with her family on several occasions. No adherence issues or interruption of services were experienced during the 30-month period of Patient A’s treatment with factor X concentrate.

SUMMARY/CONCLUSION

A retrospective review of medical records was performed by a multidisciplinary team from June 9, 2017, through January 23, 2020. As shown within this case study, utilizing customized, therapy-specific assessments and collecting outcomes measures regularly on patients receiving specialty therapies in the home environment supports the correct use of infusion therapy, prevents adverse events, and promotes positive patient outcomes.

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