Clinical audit on prescriptions of prothrombin complex concentrate in a peripheral hospital

Background

Contract between the hospital and the Regional Health Agency

Yearly evaluation on medical practices

audit = part of this evaluation

Purpose

To assess if the prescriptions of prothrombin complex concentrate (PCC) match with official recommendations, with or without anti-vitamin K overdose.

Materials and Methods

PRODUCTS of PCC

currently delivered in our hospital

OCTAPLEX®

&

KANOKAD®

Data collection form
to assess if the indication and the dosage were correct in each situation

GUIDELINES

Summary of Products Characteristics and guideline provided by French National Authority for Health (HAS) in 2008

Patients

Each patient who received PCC from 15 October 2012 till 30 September 2013

Results

14 patient files included

13 correct regarding the indication and 9 regarding the dosage regimen

The dosage regimen was not correct in 4 other cases. In 2 of them the standard dose of 1ml per kilogram was given without taking the INR before the injection into account.

One case were the administration should not have been given

Man with an unexplained fever for whom a neurological infection was suspected

Received PCC because a lumbar puncture was needed

Had an International Normalized Ratio (INR) at 1.32 before the injection whereas the target for such an injection is an INR under 1.5

Conclusion

Regarding the results the INR before injection of PCC is not always taken into account probably because it is not always available when physician decides to prescribe it.

There are some improvements to consider in delay of INR results and sensibilization of physicians about taking the INR before injection into account to calculate the right dose such as writing a protocole to standardize the dosage regimen regarding the product of PCC (Kanokad® or Octaplex®), the indication and the INR before injection.

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