AN EVALUATION OF THE PHARMACIST INTERVENTION IN INTRAVENOUS MIXTURES STABILITY

1 E Rodríguez Molins, 1 Y Labeaga Baramundi*, 1 B Rodríguez de Castro, 1 B Fernández González, 1 R Pampin.
1 Cabueñas Hospital, 1 Hospital Pharmacy, Gijón, Spain.

PURPOSE

✓ To evaluate a check of replacement of the infusion bag in time about dopamine and nitroglycerin to ensure their effectiveness and safety in different hospitalization units in a hospital

MATERIAL AND METHODS

✓ Prospective observational study conducted in a hospital
✓ Duration: 3 months
✓ Patients included: patients treated with any of the mixtures: dopamine and nitroglycerin intravenous selected from pharmacy electronic prescription program
✓ From the Pharmacy Department an informative sheet was sent to hospitalization units with the following information: patient identification, intravenous mixture prescribed and the text: "The stability of the mixture is 24 hour. Change the dilution every day at the same time"

✓ Variables studied:
  ▪ the infusion rate (<21mL/h, >21mL/h and =21mL/h) and
  ▪ the time when the mixture was replaced
✓ The information sources used:
  ▪ electronic medical files
  ▪ nurse interviews
  ▪ direct observation of the mixture

RESULTS

✓ Sixty prescriptions were analysed
✓ 48 mixtures were prescribed with an infusion rate of <21mL/h
✓ 9 mixtures with 21mL/h
✓ 3 mixture with >21mL/h
✓ 30 of the 60 mixtures (50%) were changed every 24 hours
✓ The rest were changed when the perfusion finished according to the infusion rate without considering the mixture stability
✓ The mixes which were changed correctly: 70% were prescribed with an infusion rate of <21 mL/h, 20% with 21mL/h and 10% with >21mL/h
✓ The mixes changed after the recommended time were prescribed with an infusion rate: 90% with <21 mL/h and 10% with 21 mL/h

CONCLUSIONS

✓ The mixes prescribed with an infusion rate of <21mL/h led to a miscalculation of the time when the mixes had to be changed correctly
✓ Pharmaceutical intervention: it is necessary to give active and passive information about mixtures stability to ensure their effectiveness and safety

ACKNOWLEDGEMENTS

Acknowledgments to the Congress. No conflict of interest

5PSQ-022