**اسم الباحث : م.د. مهند عدنان بكر النعيمي**

**مدرس جامعي اول / كلية طب الموصل / جامعة الموصل**

**الاختصاص: بورد عربي طب الطوارئ و الحوادث**

**الايميل الجامعي:**

**mohanadadnan86@uomosul.edu.iq**

**Title of Research :**

**Serum Potassium Impaction in Children with Gastroenteritis at Emergency Department**

**Abstract:**

**Acute gastroenteritis is one of the most common gastrointestinal system diseases and is associated with substantial morbidity and mortality…**

**A viral pathogen is a common cause in children, but other pathogens, like bacteria, parasites may be causes..**

**The cornerstone of a treatment are oral rehydration solution ( ORS ), IV – fluid therapy, correction of electrolytes disturbances, especially ( hypokalaemia )that is associated with more hospital – time admission and complications, like generalized weakness and lethargy, paralytic ileus…**

**Aim of Study :To estimate the prevalence of hypokalaemia in children between ( 1 – 5 years old ) who are suffered from acute gastroenteritis and their complications.**

**Patient and Method:**

**A prospective clinical study, is enrolled ( 153 patients ) from 15th / January / 2023 till 30th / December/ 2023 at Al- Khansaa Teaching Hospital / Mosul city / Iraq… A study is included children between 1 – 5 years old who are suffering from acute gastroenteritis and admitted to ER department then to pediatric ward and their serum potassium level less than 3.5 mmol / L...**

**Excluding criteria were children out of a range of 1 – 5 years, chronic diarrhea, any nutritional diseases…**

**Depending on history, physical examination, serial serum potassium level measurements with proper follow up…**

**Results:**

**A total of 153 patients, with 91 male and 62 female ( ratio 1.4 : 1 ) and a majority of them were mature – born children from urban areas…**

**61 patients were complicated with hypokalemia and 92 are not, of those are complicated with a hypokalemia were 21 with mild degree, 23 with a moderate degree and 17 with a severe one…**

**According to their complaints, were 61 with a diarrhea only and 27 with a vomiting only, and 65 with both..**

**According to a degree of dehydration, were 72 with a moderate dehydration, and 79 with a severe one…**

**Regarding the UOP, were 11 with a good UOP, 79 with a poor UOP, 63 with a fair UOP…**

**Finally, regarding the complications, were 10 with a generalized weakness and 8 with a paralytic ileus….**

**Conclusion :**

**Children with acute gastroenteritis may complicate with a hypokalemia and it’s complications like, generalized weakness and paralytic ileus…**

**So, we need serial follow up serum potassium measurements for children with acute gastroenteritis at ER department and pediatric ward …**