

# Pediatric Stroke Algorithm Revision: Focus on Education Process

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## Background and Purpose

While the incidence of Pediatric Stroke is low at 2.3 to 13 per 100,00 children, our institution saw a need for a pediatric stroke protocol to provide guidance when children present with stroke symptoms. The process began with development and release of a pediatric stroke guideline in 2017. After initiation of the guideline, mock stroke alerts periodically were performed with feedback provided by staff. After several reviews and revisions, the paradigm of a guideline was discarded in favor of an algorithm for both Emergency Room (ER) and inpatient areas after a recent mock stroke alert in the Pediatric Intensive Care Unit (PICU) and following feedback. The purpose behind our process improvement project was to provide education regarding the updated Pediatric Stroke Algorithm to all relevant clinical areas.

## Methods

The first step was to identify the staff in patient care areas that would need the education on the updated Pediatric Stroke Algorithm. Next, we identified the methods of communication that would be utilized to ensure all staff received proper education.

## ER Pediatric Stroke Team



## Pediatric NIH Resource Guide

- [IR - Interventional Radiology](#)
- [PGE - Pediatric Genetics](#)
- [Guidelines / Protocols](#)
- [Acute Care Delirium Assessment](#)
- [Dofetilide \(Tikosyn\) Protocols](#)
- [Pediatric Sedation Request](#)
- [ADHD Medications Interchange Table](#)
- [ECMO Weaning Protocols](#)
- [Pediatric Sepsis Protocol](#)
- [Adult - Analgesia and Sedation - Mechanically Ventilated Patients](#)
- [Esmolol IV Infusion Guidelines](#)
- [Pediatric Status Epilepticus ALERT](#)
- [Adult Acute Ischemic Stroke Guidance](#)
- [Eye Drop Therapeutic Interchange Reference](#)
- [Pediatric Stroke Algorithm](#)
- [Adult Cardiac Monitoring \(Telemetry\)](#)
- [Hepatic Encephalopathy Algorithm](#)
- [Pediatric Stroke NIH Pocket Card](#)
- [Adult Endocarditis Algorithm](#)
- [Infliximab Inpatient Adults for the Treatment of Steroid Refractory IBD](#)
- [Perioperative Medication Protocols and Guidelines](#)

## UKHC Electronic Site Resource



## Stroke Lecture Series Topic

## Education Process



### Education is the Key!!

The education process included attending ER and PICU team meetings. Also Mock Pediatric stroke alerts, that included a review of the revised protocols, were completed in the ER and In patient Pediatric patient care areas. Also the revised Pediatric Stroke Alert Protocol was placed in resource books, in patient care areas and in electronic resource sites.

## Results

In 2020, the updated Pediatric Stroke Algorithm document was placed on the UK HealthCare Care Web page (Clinical Web Page). Information on the location of the document was sent to the key stakeholders for nursing, physician, and appropriate ancillary staff in the ER and PICU for further distribution. The algorithm was presented at various stroke committee meetings and sent by email to team members of these committees to share with their staff. The algorithm was further presented at the PICU Collaborative Practice Meeting and posted on the PICU share point site, in the ER, and PICU areas.

## Conclusions

A comprehensive educational process of the revised Pediatric Stroke Algorithm was successfully completed with all the appropriate staff.