

## **SHEFFIELD CHILDREN'S NHS FOUNDATION TRUST ELECTRO ENCEPHALOGRAPH (EEG) VIDEO TELEMETRY RECORDING**

### **What is an EEG video telemetry recording?**

EEG Video telemetry is a way of recording a child's seizures over a period of time by synchronising an EEG recording with a video recording.

### **Why does my child need to have a video telemetry recording?**

Sometimes your doctor needs to have more information about your child's epilepsy than can be provided by a routine EEG recording. There are several ways of obtaining longer EEG recordings and video telemetry is one of them. Video telemetry is an essential part of the preparation of children for epilepsy surgery, however, other children with epilepsy who are not suitable for surgery may also need to have a video telemetry recording.

### **How long will the recording take?**

The recording time will vary for each child. Some children may need a 24 hour recording period whilst other children may need to be recorded for a longer period of time, possibly up to five days. Your epilepsy nurse will discuss this with you in advance.

### **What happens during the recording?**

Your child will need to remain in the specially adapted side room (on Ward M1) that we use for video telemetry for the duration of their admission. The room is self contained with its own bathroom/toilet. Your child will be recorded on video all the time (day and night) except when they are using the bathroom/toilet. There is room for one parents to be resident in the room with the child. Although restricted to the room, your child will be free to move around the room, play, do homework, watch television and have visitors, however, they will be unable to have a bath or a shower during the recording period.

The EEG is recorded in a similar way to a conventional EEG. The EEG technician will glue the scalp electrodes in place at the start of the recording and will come to check them each day. The electrodes will be removed at the end of the recording. The EEG technician will also review and change the video recordings each day.

### **What happens if my child has a seizure during the recording?**

The technician will explain to you how to press the "event" button when your child has a seizure so that it is clearly marked on the recording tape.

**WE WOULD ASK YOU TO REMEMBER THAT IT IS IMPORTANT THAT THE DOCTORS ARE ABLE TO SEE A RECORDING OF ANY SEIZURES IN DETAIL – WE KNOW IT MAY BE DIFFICULT BUT PLEASE TRY NOT TO OBSTRUCT THE VIEW OF THE VIDEO CAMERA WHILST YOUR CHILD IS HAVING A SEIZURE.**

**IF THE SEIZURE IS AT NIGHT AND THE CHILD IS COVERED BY THE BED CLOTHES IT IS HELPFUL IF YOU CAN PULL THESE BACK.**

### **What happens if my child does not have a seizure during the recording?**

The reason for a video telemetry recording is to gain more information about your child's epilepsy, therefore, although it may sound unkind we want your child to have several seizures so that we can record good quality information. It is often necessary to reduce or stop your child's anti convulsant medication before or during admission to ensure that seizures do occur. Your epilepsy nurse / doctor will discuss this with you before admission.

### **Is there anything I need to do to prepare my child for the recording?**

Explain to your child what is going to happen when they are admitted to hospital. Reassure them that the information we get will be helpful in trying to control their seizures in the future. If medication has been reduced or stopped during admission reassure them that this will be re started before they leave hospital.

**IT IS IMPORTANT THAT BOTH YOU AND YOUR CHILD KNOW THAT THE VIDEO TELEMETRY RECORDING DOES NOT HURT.**

### **When will I know the result of the recording?**

We should be able to tell you at the end of the recording if we have recorded enough information to be helpful. The telemetry recording then has to be reviewed in detail by the EEG doctors, technicians and your child's consultant neurologist, this may take several weeks. Your epilepsy nurse will let you know as soon as the report is available and you will be able to discuss the report with your doctor at your next out patient appointment.

In addition for children on the epilepsy surgery programme, the recording will also be discussed at a separate surgery meeting. Your epilepsy nurse will let you know when this has taken place.

### **Who do I contact if I need further information?**

Barbara Warden  
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For Further advice contact:



Sheffield Children's NHS Foundation Trust,  
Main hospital number: 0114 271 7000

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