



PATIENT INFORMATION LEAFLET

For parents/guardians of children in paediatric intensive care

PICU

1. Introduction

Your child is being invited to take part in a nationwide medical research study called CHiP. This information sheet gives you details about the study. We explain why we are asking you to think about taking part, and what you can expect if you agree. Please remember, you do not have to take part and the quality of your child's care will not be affected in any way, whatever you decide.

This information sheet is in two parts:

Part 1 tells you about why we are doing this study and what will happen if you agree for your child to take part.

Part 2 gives you some more information about how research studies like CHiP are run.

PART 1 2. Why is a study needed?

When babies, children and adults are in intensive care, the levels of sugar in their blood can go up. This is called hyperglycaemia. It can happen because they have had a serious illness, an injury, or surgery. In Paediatric Intensive Care we take small samples of blood regularly. We use these to check sugar levels. Babies and children with high blood sugar are usually treated with a drug called insulin, but only if the blood sugar reaches quite a high level. We measure the level of sugar with a scale called millimoles per litre, shortened to mmol/L. When the level reaches 12 (mmol/L), we would say that this is too high and should be treated.

In adults, some research has suggested that controlling the blood sugar levels *tightly* may speed recovery time. *Tight* control means checking the blood more often. If the sugar level is going up, we give insulin at around level 7, rather than waiting until it goes up to level 12 (we will tell you more about insulin later in this leaflet). This *tight* control may also be a promising treatment for children, but we do not know whether children will respond in the same way as adults.

If blood sugar levels are raised above normal this is called hyperglycaemia

3. Why has my child been chosen for this study?

Your child has been chosen for this study because s/he has developed a serious illness that needs the support of a ventilator and medicines to support his/her blood pressure. We are hoping that 1500 children on a ventilator will take part in the CHiP Study. Doctors and nurses from Paediatric Intensive Care Units in ten hospitals are helping with the study. You have been given this information leaflet and asked if you would like to join the CHiP Study because your child is in one of these ten hospitals.

4. What

If you are happy for your child to take part in the CHiP Study, and are comfortable with the explanations from the doctors and nurses at this hospital, you will be asked to sign a consent form. A member of staff from the Unit will then make a telephone call to the study centre. The staff member will give the centre some details about your child and find out which study group your child will be in. This will tell the intensive care staff which of the two treatment approaches they will follow if sugar levels go up.

6. Does my child have to take part?

No, it is up to you to decide whether or not your child takes part. You are free to withdraw at any time without giving a reason. This would not affect the quality of care your child receives.

7. What treatment will my child get if s/he does not take part?

We will give your child the same treatment that all patients in paediatric intensive care would receive. This means that we would give insulin if the blood sugar levels go up to level 12 on two tests. The tests would be taken 30 minutes apart. If the blood sugar levels do not go up, then we would not need to use any insulin.

8. What are the possible benefits to my child from taking part?

We are doing this study because we do not know whether *tight* control of blood sugar produces better results. Some studies carried out in adults in intensive care have shown that patients treated with *tight* control of blood sugar do better but others have not shown any benefit of *tight* control. If children benefit in the same way as adults did in some of these studies, then *tight* control of blood sugar levels may be helpful in speeding up recovery time. We cannot promise the study will help your child but the information that we get might help other children in the future.

9. What are the possible side effects of the treatment and possible risks of taking part?

There is a possibility that for children in the *tight control* group, giving insulin at an earlier stage might mean that the level of sugar in the blood will drop BELOW normal. This is called hypoglycaemia (the opposite of hyperglycaemia where sugar levels are high). Mild hypoglycaemia can cause confusion and/or dizziness. Severe hypoglycaemia could cause brain damage but only if left untreated for a long time. Be reassured that the doctors and nurses in the CHiP Study will be carefully watching your child. If your child shows signs of hypoglycaemia, this will be picked up very quickly while still very mild and prompt action will be taken to treat it. The staff will stop the insulin treatment straightaway and will give extra sugar either by mouth or as a sugar solution through a drip.

For the children who are in the *usual* care group, who will receive insulin if the blood sugar level goes up to 12, the possible risks are different. For them there is the possibility that their sugar levels might get too high. This can affect how the organs of the body work, but as we have said, all the children in the study will be very carefully monitored. There are not thought to be any other risks to your child from taking part in the study.

10. Are there any other possible disadvantages?

If your child is in the *tight* control group he/she is likely to have more blood samples taken than if in the *usual* care group

Also we do appreciate that we are asking you to consider a research study when you are naturally feeling worried about your child and that this might be adding to your stress now.

11. What if there is a problem?

If you have any complaint about the way you or your child is dealt with during the study or feel that you had suffered any sort of harm, this will be addressed. The detailed information about this is given in Part 2.

12. Will taking part in the study be kept confidential?

Yes, all information about your child's participation in the study will be kept confidential. The details are included in Part 2.

13. Involvement of the Family Doctor (GP) and Health Visitor

With your permission, we will let your GP and health visitor know that your child is taking part in the study.

14. Your contact people for the study in this hospital are:

If the information in Part 1 has interested you and you are conliëbro edrPa

Step by Step Guide to the CHiP Study

1 Patient selection and consultation with parents

Children admitted to paediatric intensive care unit and on ventilators

Staff explain study and give written information to parents before surgery.

Parents given the chance to ask questions of doctors and nurses

2 Parents decision

Parents agree for their child to be included in the study and sign consent form

OR

Parents do not wish to take part

3 Research in hospital

Randomisation

Half children in study receive **tight control**

Half children in study receive **usual treatment**

Child treated with insulin if blood sugar reading reaches level 7

Child treated with insulin if blood sugar reading reaches level 12

Usual treatment
Child is treated with insulin if blood sugar reading reaches level 12

Data collected in hospital and transferred to Coordinating Centre in the London School of Hygiene and Tropical Medicine

4 Research follow-up

On discharge from hospital study manager sends letter to parents

Study manager registers child with NHS Information Centre and NHS Central Register

Study manager tells GP and health visitor that child is in study

PART 2 *Part 2 gives you some more information about the conduct of research studies. Please read it before you agree to take part in the study.*

What will happen if I don't want my child to carry on with the study?

If you decide to take part in the study but then change your mind, just tell the research nurse or doctor. We will stop collecting information about your child and if you wish, any information we have already collected can be destroyed. If your child is in the *tight* control, s/he will instead be given *usual* care which is to give insulin at level 12. If your child is in the *usual* care group nothing will change.

Will my child's taking part in the study be kept confidential?

All information about your child (including your contact details) which is collected for the study will be kept securely and strictly confidentially within the study team (the hospital and the Data Co-ordinating Centre at the London School of Hygiene and Tropical Medicine), and your child's doctor (GP) and health visitor. We will not use your child's name in any analysis or in any reports that we write. The study team are responsible for analysing, storing and eventually destroying the data according to guidelines set by the National Health Service Research & Development Unit. Information will be kept for up to 15 years at the study centre.

What will happen to the results of the research study?

The results will be available when all the children have been followed up and the results analysed. This is likely to be in 2012. The research will be published in a scientific journal and the results publicised widely. A summary of the research and details of how to find the scientific publication will be posted on the study website (website www.chip-trial.org.uk). A summary of the results will be sent to parents if you let the Study Manager know that you would like to have this.

What if there is a problem?

If you have a concern about any aspect of the study you should ask to speak to Helen Betts (Lead Research nurse tel: 07854 980 072 or to the Chief Investigator, Dr Duncan Macrae 020-7351 8546) who will do their best to answer your questions. If you remain unhappy and wish to make a formal complaint, you can do this through the NHS Complaints Procedure at this hospital (name and tel number to inserted for each collaborating hospital). The Royal Brompton and Harefield Trust is the sponsor of this research project. In the very unlikely event that your child is harmed due to someone's negligence, then you may have grounds for legal action against the sponsor of the research or NHS Trust but you may have to pay for it. This is the normal procedure, whether or not there is a research study. If you wish to complain about any aspect of the way your child has been approached or treated during the course of this study, all the normal health service complaints mechanisms are available to you.

Who is organising and funding the research?

The study is funded by the Health Technology Assessment Programme of the NHS. This study is co-ordinated by the Royal Brompton and Harefield NHS Trust and the London School of Hygiene and Tropical Medicine (LSHTM). The Royal Brompton Hospital is responsible for the conduct of the study. The research grant from the Health Technology Assessment Programme pays for the employment of research nurses and the study team at the LSHTM.

ChiP Study Team

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This study was given a favourable ethical opinion for conduct in the NHS by the Brighton East Research Ethics Committee.

Thank you for taking the time to read this information