ALL Cycle 2
(Cyclophosphamide and cytarabine)

This leaflet is offered as a guide to you and your family. The possible benefits of treatment vary; for some people chemotherapy may reduce the risk of the cancer coming back, for others it may control the cancer and its symptoms. Chemotherapy is the most commonly prescribed anti-cancer treatment but other types of treatment are also used. Your doctor will explain to you whether you will receive chemotherapy or another type of treatment, or a combination of both. Your doctor or nurse will be happy to answer any questions you have about your treatment. You will find it useful to refer to the booklet Chemotherapy, a guide which gives general information on chemotherapy and side effects.

Possible side effects
Chemotherapy can cause many different side effects. Some are more likely to occur than others. Everyone is different and not everyone gets all the side effects. Most side effects are usually temporary, but in some rare cases they can be life-threatening. It is important to tell your hospital doctor or nurse about any side effects so they can be monitored and, where possible, treated.

Your treatment
Your doctor or nurse clinician has prescribed a course of treatment with cyclophosphamide, cytarabine and mercaptopurine. The treatment consists of the following:

Days 1 and 15
Cyclophosphamide is given via a fast flowing drip over approx 30 to 40 minutes.

Days 2-5, 9-12, 16-19 and 23-26
Cytarabine is given either via a drip over approx 30 minutes or as a subcutaneous injection.

Mercaptopurine tablets are taken every day for 4 weeks.

This treatment can have serious or possibly life-threatening side effects. It is very important that you report side effects straight away. Don’t delay, if you feel unwell, please ring The Christie Hotline on 0161 446 3658. The lines are open 24 hours a day.
Common side effects (more than 1 in 10)

- **Increased risk of serious infection**
  You are vulnerable to infection while you are having chemotherapy. Minor infections can become life-threatening in a matter of hours if left untreated. Symptoms of infection include fever, shivering, sweats, sore throat, diarrhoea, discomfort when you pass urine, cough or breathlessness. We recommend that you use a digital thermometer so you can check your temperature. You can buy one from your local chemist.

  **If you feel unwell, you have symptoms of an infection or your temperature is 37.5°C or above or below 36°C contact The Christie Hotline straight away.**

- **Anaemia (low number of red blood cells)**
  While having this treatment you may become anaemic. This may make you feel tired and breathless. Let your doctor or nurse know if these symptoms are a problem. You may need a blood transfusion.

- **Bruising or bleeding**
  This treatment can reduce the production of platelets which help the blood clot. Let your doctor know if you have any unexplained bruising or bleeding, such as nosebleeds, bloodspots or rashes on the skin, and bleeding gums. You may need a platelet transfusion.

- **Hair loss**
  Hair loss is usually total. The hair falls out gradually 10 to 14 days following your first course of treatment. It is not unusual for the scalp to feel tender at this time. Body hair and facial hair may also be lost. Hair does grow back when treatment has been completed. A wig can be provided for you while having treatment. Your nurse will give you a form for this, together with a copy the leaflet ‘Wig Fitting Service’. A selection of scarves is also available at the Oak Road shop.

- **Lethargy**
  Some chemotherapy may make you feel tired and lacking in energy. It can be frustrating when you feel unable to cope with routine tasks. If you do feel tired, take rest and get help with household chores. If necessary, take time off work. Gentle exercise such as walking can be beneficial.

Uncommon side effects (less than 1 in 10)

- **Immediate effects:** cyclophosphamide can cause a feeling of giddiness or dizziness, a metallic taste in the mouth, a feeling of numbness or pressure in the sinuses and a cold sensation along the course of the vein. This can last for an hour or so following treatment. Please tell your nurse if this happens.

- **Cytarabine** can sometimes cause a syndrome that can result in some or all of the following: fever, weakness and aching in your muscles and bones, a rash and pain in the chest. This will not affect everyone and will disappear soon after the cytarabine infusions stop.
• Diarrhoea
If this becomes a problem while you are having treatment, anti-diarrhoea tablets can be given but it is important to exclude an infection first. **If you develop severe diarrhoea it is important to contact this hospital straight away as this may be a sign of a serious infection. Don’t delay!**

• Constipation
This can be a problem at any time during your treatment but especially while you are taking anti-sickness medication in the days just following your treatment. Your GP can prescribe tablets or medicine to relieve this. You can help by drinking plenty of water (2-3 litres per day) and by taking extra fibre in your diet. Please ask for a copy of the leaflet ‘Eating: Help Yourself.’

• Sore mouth
Your mouth may become sore or dry, or you may notice small mouth ulcers during this treatment. Drinking plenty of fluids and cleaning your teeth regularly and gently with a soft toothbrush can help to reduce the risk of this happening. We can prescribe a mouthwash for you to use during treatment. You can dilute this with water if your mouth is sore. Ask your doctor or nurse for further advice. There is also general mouth care information in the chemotherapy booklet. If you continue to have a sore mouth, please contact The Christie Hotline.

• Nausea and vomiting (sickness)
The severity of this varies from person to person. Anti-sickness medication may be given along with your chemotherapy to prevent this. You may also be given anti-sickness tablets to take at home. If you continue to feel or be sick, contact your GP or this hospital, because your anti-sickness medication may need to be changed or increased.

• Irritation of the bladder
Cyclophosphamide may irritate your bladder. It is important to drink as much fluid as you can (up to two litres a day) on the days you have the cyclophosphamide to help prevent this. Tell your doctor if you have any discomfort when you pass urine.

**Rare side effects (less than 1 in 100)**

• **Extravasation** is when chemotherapy leaks outside the vein. If you develop redness, soreness or pain at the injection site at any time please let us know straight away.

• **Strange taste**
Occasionally during treatment you may experience a strange taste, sometimes described as metallic or bitter. A strongly flavoured sweet or mint will help to disguise this.

**Serious and potentially life threatening side effects**
In a small proportion of patients chemotherapy can result in very severe side effects which may rarely result in death. The team caring for you will discuss the risk of these side effects with you.
Sex, contraception & fertility

**Protecting your partner and contraception:** We recommend that you or your partner use a condom during sexual intercourse while you are having the course of chemotherapy. Chemotherapy is dangerous to unborn babies and this will also protect you and your partner from any chemotherapy drugs that may be present in semen and in the vagina. If you suspect that you may be pregnant please tell your doctor immediately.

**Fertility:** This chemotherapy may affect your ability to have children. Your doctor or nurse should have discussed this with you. If not, please ask them before you start treatment.

**Late side effects**
Some side effects may become evident only after a number of years. In reaching any decision with you about treatment, the potential benefit you receive from treatment will be weighed against the risks of serious long term side effects to the heart, lungs, kidneys and bone marrow. With some drugs there is also a small but definite risk of developing another cancer. If any of these problems specifically applies to you, the doctor will discuss these with you and note this on your consent form.

**Contacts**
If you have any general questions or concerns about your treatment, please contact the Haematology and Transplant Unit.

- Jo Tomlins, Haematology Nurse Clinician 0161 446 8010
- Haematology and Transplant Day Unit 0161 446 3924
- General enquiries 0161 446 3000
- For urgent advice ring The Christie Hotline 0161 446 3658 (24 hours)

Your consultant is: .................................................................
Your hospital number is: ...........................................................
Your key worker is: .................................................................

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