



## Concurrent chemo-radiation with cisplatin and etoposide for Small Cell Lung Cancer

This leaflet is offered as a guide to you and your family. You will find it useful to refer to the booklet *Chemotherapy: a guide* and *Radiotherapy: a guide* which give general information on treatment and side effects.

You have recently been diagnosed with Small Cell Lung Cancer and your specialist has recommended chemotherapy and radiotherapy treatment. A way of combining the two treatments is to give radiotherapy at the same time as chemotherapy – called ‘concurrent’ chemo-radiotherapy. The intention of the treatment is to shrink the tumour and occasionally cure the cancer. However, it is not possible to guarantee a cure. The success of the treatment differs from patient to patient. So it is not possible to give precise details in this leaflet, but please discuss this with your consultant. This is not a clinical trial but a routine treatment offered at The Christie.

### Your treatment

The chemotherapy part of your treatment (cisplatin and etoposide) will be given slowly into the vein through a “drip” in your arm at the hospital. The chemotherapy will be given over 3 days, every three weeks usually for a maximum of 4 cycles.

The radiotherapy treatment will be delivered twice a day, Monday to Friday, for 3 weeks. Radiotherapy takes approximately no longer than 30 minutes each time. It will start with cycle 2 or cycle 3 of chemotherapy. Occasionally this plan changes but this will be discussed with you if necessary.

For a full schedule of treatment please refer to the schedule later on in this leaflet.

You will have a routine blood test every Monday or Friday depending on your clinic visit date.

### Possible chemotherapy side effects

Chemotherapy can cause many different side effects. They may be greater with this treatment than if chemotherapy and radiotherapy are given separately. Everyone is different and not everyone gets all the side effects.. Most side effects are usually temporary. It is important to tell your hospital doctor or nurse about any side effects so they can be monitored and, where possible, treated.

- **Kidney function**

Cisplatin can rarely cause long term damage to the kidneys. Your kidney function will be closely monitored at each clinic visit. It is important to monitor how your kidneys are working while you are having treatment. We will do this through routine blood tests or GFR test (most accurate test of kidney function). It is important to drink plenty of fluids (at least 8 cups) the day before and for a few days after chemotherapy.

- **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 straightaway.

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**

You may become anaemic and experience excessive tiredness, feel dizzy, breathless and /or look pale. You may need a blood transfusion.

- **Increased risk of bleeding**

You may get nose bleeds, bruising or bleeding gums. You may need a transfusion of platelets.



- **Nausea and vomiting (sickness)**

The severity of this varies from person to person. Anti-sickness medication will be given along with your chemotherapy to prevent this. You will 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, and you may need extra fluid through a drip.

- **Hair loss**

Hair loss is usually total. The hair falls out gradually 10 to 14 days following your first course of treatment. The time scale varies from person to person. Please remember that this is a temporary side effect and your hair will grow back when your treatment is completed. If you would like an appointment with the wig service, this can be arranged for you. Ask the staff for a copy of the 'Wig Fitting Service at the Christie'.

- **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)**

- **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.

- **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.

- **Upset bowels**

You may get upset bowels with this chemotherapy:

**Diarrhoea.** If this becomes a problem while you are having treatment, anti-diarrhoea tablets can be prescribed by your GP for a temporary period until this is resolved. If the problem persists contact this hospital. Ask the staff for a copy of '*Eating: Help Yourself*' which has useful ideas about diet when you are having treatment.

**Constipation.** Try to drink plenty of fluids and eat foods high in fibre. Tell your doctor who may prescribe a suitable laxative.

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

- **Tingling & numbness in the fingers or toes**

Usually only mild and temporary. Please report these symptoms to your doctor on your next hospital visit. On rare occasions, this may be permanent.

- **Tinnitus & high frequency hearing loss**

You may develop tinnitus (ringing in the ears), this sensation should subside when your treatment finishes. High frequency hearing loss can also occur with this chemotherapy, this may be permanent

## **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.

## Possible radiotherapy side effects

Acute side effects are temporary and affect everyone having radiotherapy. They will vary depending on which area is being treated, and your general fitness. They usually develop 10 to 14 days after the first day of your treatment and can last for up to 6 weeks after treatment is complete.

The early side effects of concurrent chemo-radiotherapy may include:

- **Difficulty in swallowing**

Inflammation of the gullet (oesophagitis) can cause discomfort when swallowing (dysphagia). Your doctor can prescribe medicines to alleviate this symptom and the hospital dietician can advise about modifications to your diet and supplements. You should concentrate on maintaining a good fluid intake.

- **Tiredness**

Tiredness related to radiotherapy varies a lot from person to person. You should stay moderately active but avoid making yourself too tired.

- **Pain**

Some pain in the chest in the 24 hours after the first treatment. This is usually and settles down fairly quickly.

- **Cough**

Increase in your cough and sputum (spit) which may contain a little blood. Don't worry, this is quite normal. If you are having difficulties with this during treatment, let your doctor know. Coughs can sometimes worsen when treatment finishes.

- **Shortness of breath**

Inflammation of lung tissue (pneumonitis) can cause a cough and a degree of breathlessness during or shortly after radiotherapy. A variant of this side effect can cause troublesome breathlessness about six weeks after radiotherapy is completed. In rare circumstances, this may need urgent assessment and could become life-threatening without any treatment. You should ring The Christie Hotline if you are concerned.

- **Skin rash**

Skin reaction can be caused by radiotherapy treatment, similar to sunburn. On rare occasions a cream may be needed.

These side effects tend to build up during treatment and are at their worst in the last week of treatment or in the first 2 weeks after treatment is completed. They then recover 3-6 weeks after treatment.

## Late side effects of radiotherapy

Some side effects may become evident only after a number of years. However, your doctor can take action to avoid these for most patients, so the potential benefit you receive from treatment should outweigh 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 an increased chance 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.

- **Shortness of breath**

Damage to the normal lung tissue may occur from radiotherapy. This can result in shortness of breath and increased risk of infections. Radiotherapy may leave the lung with some scarring (fibrosis). This can mean that your lung does not work quite as well as it did before, and you may notice a slight increase in breathlessness. It may be possible to learn breathing exercises or use medicine to reduce your breathlessness but, in some rare cases, the breathing deterioration can be irreversible.

- **Persistent difficulty in swallowing**

Narrowing of the gullet may need a minor procedure to stretch the gullet (dilatation) or in rare cases surgery. If you experience swallowing difficulties months after completion of the combined treatment, further investigations (gastroscopy – tube into the stomach) may be necessary.

- **Bone (ribs) weakness**

Radiotherapy in rare cases can produce some thinning of the ribs. Following a severe cough, this can result in chest pain and/or minor rib fracture.

- **Spinal cord damage**

Radiotherapy may in extremely rare cases lead to injury of the spinal cord which can cause permanent difficulties in walking and loss of sensation in the lower body. Every effort is made to carefully plan your treatment so as to avoid this problem.

The risk of these late side effects is generally small as the treatment is planned carefully to try to avoid them. If you do have late side effects they will become noticeable 6-18 months after radiotherapy is completed and are generally permanent.

### **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.

### **Loss of periods**

Due to the effect of chemotherapy on the ovaries, you may find that your periods become irregular or stop. This is more likely in women over the age of 40 when most women will notice some change in their periods. It is less common in women under the age of 40 but does still happen and can result in significant menopausal symptoms (see section below). Even if your periods stop completely during chemotherapy your periods may come back several years later. This means that you may be able to become pregnant even many years after chemotherapy. It is very important to use contraception if you don't want to get pregnant.

### **Menopausal symptoms**

When the ovaries stop working due to chemotherapy or during a natural menopause most women experience symptoms such as hot flushes, sweats (night and day) and vaginal dryness. These hormonal changes can make the vagina feel as though it has shrunk and become less easy to stretch. This is called vaginal atrophy and can result in discomfort, pain on sexual intercourse, itching and recurrent urine infections. If your ovaries don't start to work again the vaginal symptoms can be permanent, although the flushes and sweats tend to reduce and stop over a small number of years. Some women who have already gone through menopause may notice their symptoms worsening for a time after chemotherapy.

The vaginal symptoms can start early and the longer they are left the harder they can be to treat. Please contact your specialist nurse either in clinic or by phone when the symptoms first develop if you would like help. Symptoms can be managed in several ways including gels, essential oil pessaries and sometimes local oestrogen replacement. You may also find it helpful to request the booklet 'Menopausal symptoms and breast cancer' by Breast Cancer Care (either from your Breast Care Nurse, The Information Centre at The Christie or online).

### **What happens after this treatment?**

You will be reassessed in clinic after completion of the combined treatment. We will see you as often as every couple of weeks until all side effects have gone. When the full treatment is completed you will be followed up every 3 months in clinic for the first year, 6 monthly until 2 years, and annually thereafter.

Another CT scan of your chest and abdomen will be done after completion of the full treatment and a year after the start of the treatment. You will also have chest x-rays done at each visit to the hospital.

WEEK No	WEEK DAY	TREATMENT DAY	TREATMENT DUE
1	MON	1	Cycle 1 Day 1 chemo Cisplatin & Etoposide (allow up to 6-8 hours )
	TUE	2	Day 2 chemo Etoposide (2hrs)
	WED	3	Day 3 chemo Etoposide (2 hrs)
	THUR	4	Rest day
	FRI	5	Clinic/Rest day
	SAT	6	Rest day
	SUN	7	Rest day
2	MON	8	Clinic day/rest
	TUE	9	Rest day
	WED	10	Rest day
	THUR	11	Rest day
	FRI	12	Clinic/rest day
	SAT	13	Rest day
	SUN	14	Rest day
3	MON	15	Clinic day/rest day
	TUE	16	Rest day
	WED	17	Rest day
	THUR	18	Rest day
	FRI	19	Clinic day/rest day
	SAT	20	Rest day
	SUN	21	Rest day
4	MON	22	Cycle 2 day 1 chemotherapy Cisplatin /Etoposide +Radiotherapy x 2 sessions
	TUE	23	Day 2 chemotherapy/Radiotherapy x 2
	WED	24	Day 3 chemotherapy/Radiotherapy x 2
	THUR	25	Radiotherapy x2
	FRI	26	Radiotherapy x2
	SAT	27	Rest day
	SUN	28	Rest day
5	MON	29	Radiotherapy x2/clinic
	TUE	30	Radiotherapy x2
	WED	31	Radiotherapy x2
	THUR	32	Radiotherapy x2
	FRI	33	Radiotherapy x2/clinic
	SAT	34	Rest day
	SUN	35	Rest day
6	MON	36	Radiotherapy x2/clinic
	TUE	37	Radiotherapy x2
	WED	38	Radiotherapy x2
	THUR	39	Radiotherapy x2
	FRI	40	Radiotherapy x2 /clinic
	SAT	41	Rest day
	SUN	42	Rest day
7	MON	43	Cycle 3 day 1 chemotherapy/clinic( If radiotherapy to start with cycle 3 see cycle 2 above for schedule)
	TUES	44	Day 2 chemotherapy
	WED	45	Day 3 chemotherapy
	THURS	46	Rest day
	FRI	47	Clinic/Rest day
	SAT	48	Rest day
	SUN	49	Rest day
8		50-56	REST WEEK apart from clinic appt
9		57-63	REST WEEK apart from clinic appt
10	MON	64	Cycle 4 Day 1 Chemotherapy
	TUES	65	Cycle 4 Day 2 Chemotherapy
	WED	66	Cycle 4 Day 3 Chemotherapy completed
11			Clinic visit

## Contacts

If you have any general questions or concerns about your treatment, please ring the area where you are having treatment:

- Administration enquiries 0161 918 7606/7610
- Chemotherapy nurse: 0161 918 7171
- Clinical trials unit 0161 918 7663

For advice ring The Christie Hotline on 0161 446 3658 (24 hours)

- Jackie Fenemore, Lung Cancer Clinical Nurse Specialist 0161 446 3018
- Emma Halkyard, Lung Cancer Clinical Nurse Specialist 0161 918 7473
  
- Your doctor's secretary .....0161 446.....

For urgent advice ring The Christie Hotline on 0161 446 3658 (24 hours)

Your consultant is: .....

Your hospital number is: .....

Your key worker is: .....



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Details of the sources used are available, please contact [Patient.Information@christie.nhs.uk](mailto:Patient.Information@christie.nhs.uk)