

Maxillofacial Surgery

Modified Carnoy's solution in the treatment of Keratocystic odontogenic tumours

Information for
patients

Introduction

This leaflet contains information about Modified Carnoy's solution. Please read it carefully. If there is anything you do not understand, or if you have any questions please ask your doctor.

Your doctor has given you this leaflet because Modified Carnoy's solution is not licensed. The makers of medicines must obtain a 'product licence' from the Government if they want to promote their medicine as a licensed medicine in the United Kingdom. They must show the Government's Medicines Control Agency that their medicine works for the illnesses, or condition, to be treated, does not have too many side effects or risks, and has been made to a high standard.

What is Modified Carnoy's solution?

Modified Carnoy's solution contains:

- Absolute alcohol (as ethanol)
- Glacial acetic acid
- Ferric chloride

Modified Carnoy's solution is made in a special hospital pharmacy manufacturing unit. It is made in small quantities and, because it is only used in a small number of patients, a licence has not been applied for.

The use of Modified Carnoy's solution, in addition to removing the cyst, has been suggested as a way of reducing the chance of it coming back, and this is why your surgeon wants to use it. Its use in this way is supported by other maxillofacial surgeons in the world.

Modified Carnoy's solution can harden and kill tissue with which it has contact.

We think, when it is used together with surgical removal it may help reduce the chance of the cyst coming back compared to just simply removing it, but at present we don't know by how much.

How is it used?

There are two possible ways that Modified Carnoy's solution can be applied. These are listed below. The way it is applied may depend on the location or size of the KOT.

1. After the cyst is removed the solution is applied sparingly to a piece of gauze that is placed in the bony space (or cavity) left behind. The gauze is left in the cavity for a short period of time and then removed. The aim of applying it in this way is to kill any cells, or tiny cysts, that may be left behind from the cyst lining after the cyst has been removed. It is thought these cells and tiny cysts may be responsible for some recurrences.
2. In cases of large cysts, for example in the lower jaw bone, the cyst content may be sucked out and the cyst then filled with Modified Carnoy's solution. The Modified Carnoy's solution 'fixes' (hardens) the lining of the cyst which enables it to be more readily removed.

Your surgeon will discuss the way it will be applied with you

Are there any side effects?

At the moment it is unclear what the side effects are. However, there is some information to show that Modified

Carnoy's solution can affect nerves. If a nerve in the jaw is close to the surface

What is Modified Carnoy's solution being used for?

Keratocystic odontogenic tumours (KOTs) are cysts, originating in teeth, which may occur in any part of the upper and lower jaw. Cysts are like fluid filled balloons. KOTs tend to grow slowly inside the jaw bone, and they can grow quite large. Different surgical treatments have been used to treat the KOT, however, they have a tendency to come back after some of these treatments. Removing the cyst with its lining intact (enucleation) is one of the most common, and less extreme, ways of surgically removing an KOT. It has been reported that the KOT may return in, on average, around a third of patients when the cyst has simply been removed.

What is the alternative?

The alternative is that the cyst is simply removed without the use of Modified Carnoy's solution. This procedure has a high risk of the return of the cyst.

Why do I need to sign a form?

You need to sign the form to say that you have received information about this product and understood that it is not licensed, and that, having read and understood the information you have been given, you consent to Modified Carnoy's solution being used. Make sure you understand what is on the form and if you have any questions please ask your doctor.

Consent form for the use of Modified Carnoy's solution

Please read each question carefully and circle your response

I have read the information leaflet about Modified Carnoy's solution and understand that it is not a licensed product in the UK.

Yes / No

I have had the opportunity to read the information leaflet I have been given by:

.....
and ask questions about the procedure. Yes / No

I am satisfied with the information I have been given by:

.....
Yes / No

I consent to Modified Carnoy's solution being used.

Yes / No

Signature:

Printed Name:

Date:

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