

Calmed Compression Dressing System due Hip Arthroplasty

- . Less need of blood transfusions**
- . No more need of wound drainage**
- . Less wound discharge**
- . Easy wound control post operatively**
- . Easy handling for medical personnel**
- . High comfort level for the patient**
- . Cost savings.**

The Calmed Compression Dressing System (CDS)

The new Calmed CDS considerably improves the treatment due hip arthroplasty. The Calmed CDS is based on the foundation of the commonly known principles of compression dressing. An inflatable plastic airbag is placed over the dressed wound, secondly a girdle is then wrapped around the patient covering the wound area. The airbag is inflated to an appreciable pressure with the included air pump equipped with a manometer. The initial pressure will be kept for about two hours, then sequentially reduced and removed entirely the following day. The girdle is guaranteed to last for 50 patients while the plastic airbag is for single use.



Application of the Calmed CDS.



The Calmed CDS in place and set for operative usage.

A complete Calmed CDS set ready for use

One girdle with velcro, washable at least 50 times

One disposable airbag made of PVC with nonwoven surface

One air pump with manometer

One instruction manual

One case for storage

Features of the Calmed CDS

Less need of blood transfusions

A recent study carried out at the Sahlgrenska University Hospital, Sweden, shows that the Calmed CDS reduces the need for allogenic blood transfusions at a rate above 60%. The above study concludes less need of transfusions and blood units, whereas blood savings decreases the risk for post operative infections, allergic reactions and transmissible diseases.

No more need of wound drainage

The Calmed CDS is proven to replace wound drainage. Besides the obvious cost savings it means less pain and discomfort for the patient during treatment.

Less wound discharge

In comparison to the conventional wound drainage, the use of the Calmed CDS reduces the wound drainage with more than 50% post operative, hence reducing the risk for infections.

Easy wound control post operatively

As the girdle is closed with velcro the Calmed CDS is easy to open for inspection of the wound at any time after the surgery. Such an inspection does not affect the function of the Calmed CDS whenever the required pressure is set during reclosing the girdle.

Easy handling for medical personnel

The Calmed CDS should be used in all patients. The bed should be prepared with a girdle on which the patient is placed. This procedure also avoids the problems due to profuse post operative bleeding. When using Calmed CDS no drainage placement is needed.

High comfort level for the patient

Patients treated with the Calmed CDS have subsequently expressed their comfort with the product. Reports have been made that the Calmed CDS increases the feeling of support.

Cost savings

The use of the Calmed CDS enhances significantly the need for blood transfusions as well as it replaces drainage. In conclusion cost savings will more than offset the total cost of the Calmed CDS itself.

Studies and practical conclusions

Two different studies by the Sahlgrenska University Hospital, Sweden and the Linköpings University Hospital, Sweden have been conducted on the Calmed CDS.

The former was published in the Swedish Läkartidningen 2002;5:397-9. The latter was presented as an abstract at the Congress for Swedish Anaesthesia Doctors in 2003. This study is in print and will be published in the December issue 2005 of the Journal of Arthroplasty, USA. The Calmed CDS is currently in use at a number of Swedish hospitals with a large scale of treated patients consequently with positive results.

Patents

The compression dressing System Calmed is covered by the following patents: Australian Patent No 735.155, European Patent No 959.829 in France and the United Kingdom, German Patent No 69718939.2-08, Swedish Patent No 9602522-6, and US Patent No 6,171,271 B1.

Patents and design protection are also pending for further countries.



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