

Application of the Patient Plate

Essential prerequisites for satisfactory electrosurgery are that the patient plate, including cable and plug, is in perfect condition and that the patient plate is correctly applied to the patient.



General

The entire RF current, which flows into the patient via the monopolar active electrode, must be conducted away from the patient via the patient plate in order to flow back to the surgical equipment through the patient plate cable. If fixing of the patient plate to the patient is forgotten or incorrectly applied, then the current will flow from the patient to electrically conductive objects, such as operating table, supports, parts of other equipment damp swabs, etc. in which the current density can be so great as a result in burns to the patient where small area contact with the above mentioned objects occurs.

The Following Instructions Regarding the Application of the Patient Plate Must be Observed:

The patient plate including cable and plug must always be in perfect condition. Above all, care should be taken to ensure that the surface of any reusable patient plate is clean and metallically bright.

The electrically conductive surface of the patient plate should be at least 180 cm and its whole area should be fixed to the upper arm or thigh closest to the operating area of the patient.

The electrical conductivity of the skin in the area of the patient plate should be improved by cleaning away oil and grease, massaging or brushing to improve the circulation and by carefully rubbing in saline solution.

Do not attach the patient plate directly over large blood vessels close to the skin. Attach the patient plate securely, so that if the patient moves the whole fixture area is secure. Make sure that there is no excessive constriction which could lead to necrosis resulting from the lack of circulation.

During electrosurgery, the patient must not come into contact with electrically conductive objects, such as the operating table, supports, damp cloths etc. A thick, dry, electrically-insulating sheet must be placed between the patient, the operating table and the supports. During electrosurgery, these sheets must not become damp.

Areas subject to considerable secretion of sweat, body extremities lying against the trunk or skin-to-skin contacts should be separated by the application of dry cloths. Drain off urine with a catheter.

If the patient is connected to a monitoring device during electrosurgery the ECG electrodes should not be applied too close to the operating area. The distance should be at least 15 cm. Instrument leads which conduct the RF current away from the patient must not be applied to the patient during electrosurgery.

The cable between the patient plate and the surgical unit must be as short as possible.

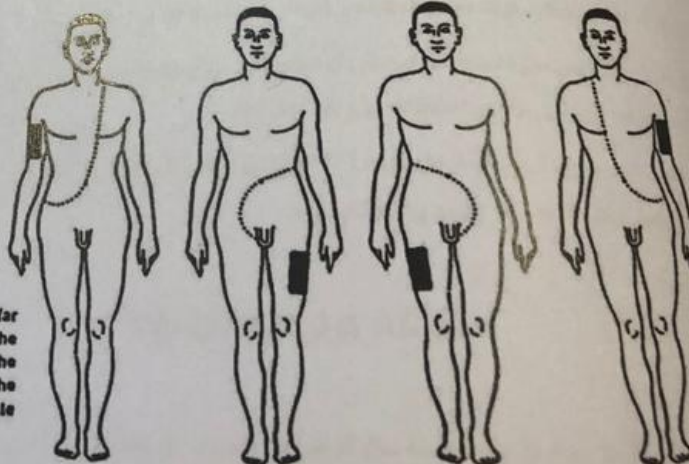
The neutral electrode should not be applied to bony or hairy areas. Hairy areas should be shaved before application.

WARNING!

In the floating mode the neutral ECG electrode must not be connected to the neutral surgical electrode, but should be placed as far away from it as possible.

Careful consideration should be given to the positioning of the electrodes and their connections. The high frequency RF current path through the patient must be as short as possible. Therefore the patient plate should be positioned with its entire area covering the patient as close to the operating area as possible.

In the following examples the patient plate can very easily be attached to the patient



The ERBE PATIENT PLATE should as far as possible be applied in the vicinity of the operating area. The diagram shows the most suitable points of application on the upper arms or thighs for the appropriate operating areas.

Electrosurgical Unit

الکترو کوتر جراحی مونوپولار:



✦ قابلیت تبدیل کلید میکرو

✦ قابلیت استفاده در کلینیک و

پلی کلینیک

(گوش، حلق و بینی،

دندانپزشکی، زنان

پوست، زیبایی و اپیلاسیون

Model : TS M70D

الکترو کوتر جراحی مونوپولار و بای پولار :



✦ قابل استفاده در کلینیک های:

تخصصی (گوش حلق و بینی -

دندانپزشکی - زنان - پوست زیبایی)

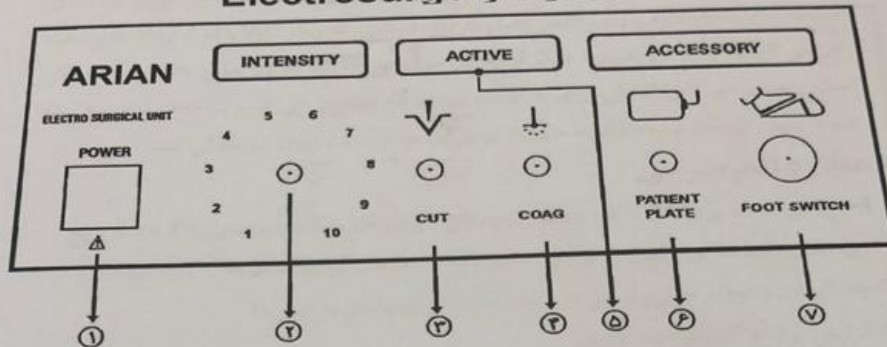
✦ فوق تخصصی (جراحی مغز و

اعصاب و ترمیمی)

Model : TS MB70C

ARIAN**آریان**

قطعات ، تجهیزات و مواد دندانپزشکی

Electrosurgery System

(۱) کلید اصلی روشن و خاموش کردن دستگاه:

در صورت روشن بودن چراغ کلید ، دستگاه روشن و آماده به کار است ، در غیر اینصورت بایستی از وجود جریان برق در پریز ، محکم بودن دو شاخه در پریز و سوکت برق در پشت دستگاه اطمینان حاصل نموده و در آخر فیوز دستگاه را آزمایش کرد

(۲) ولوم دستگاه :

با تغییر آن توان خروجی دستگاه قابل تنظیم بوده و جراح با توجه به نوع جراحی ، آنرا انتخاب مینماید.

(۳) خروجی (CUT) : محل اتصال قلم کوتر

(۴) خروجی (COAG) : محل اتصال قلم کوتر

(۵) چراغ مخصوص که با روشن کردن آن همراه با صدای بازر خروجی دستگاه جریان دارد

(۶) محل اتصال صفحه پلیت به دستگاه

(۷) محل اتصال پدال دستگاه که با فشار پدال دستگاه شروع به کار میکند

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Electrosurgery System



Dental surgery

70 Watt Hf generation for mono polar (Cut – Coag)

- **For clinics & specialist practice :**

ENT, Dermatology, Neurosurgery , Dental surgery , Cosmetic , expiation

تهران - خیابان آزادی - روبروی دانشکده دامپزشکی ، خیابان شهید زارع ، کوچه شهید کاظمی
پلاک ۲ - طبقه همکف تلفن : ۶۴۳۸۹۶۹ - ۶۹۳۷۰۷۳ فاکس : ۶۹۳۷۰۸۴ ((صادقیان))

الکتروکوتر جراحی بای پولار اتوماتیک :



★ قابل استفاده در جراحی مغز و اعصاب در کلینیک و بیمارستان

★ قابلیت فرمان اتوماتیک و Footswitch

Model : TS BA 70

الکتروکوتر جراحی بای پولار چشمی:



★ قابل استفاده در عملهای جراحی تخصصی چشم

Model : TS B 5w