



国内版 国际版

Analysis of electrocautery smoke released from the tissues fre



ALL

IMAGES

VIDEOS

开启取词

7,810 Results

Any time ▾

## Surgical smoke control with local exhaust ventilation ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6460469>

Surgical smoke was generated with an electrocautery surgical device (model: ForceFX, Valleylab, Boulder, CO; output power of cut and coagulate were set at 35 watts) for 15 min. The activated (a mixed use of cut or coagulate mode) electrocautery stainless steel blade was contacted to the tissue and the blade was moved to fresh part of the tissue after approximately 5–10 sec of smoke generation.

Cited by: 5

Author: Taekhee Lee, Jhy-Charm Soo, Ryan F. Le...

Publish Year: 2018

## Quantitative Chemical Analysis of Surgical Smoke Generated ...

[https://www.researchgate.net/publication/242334321\\_Quantitative\\_Chemical\\_Analysis\\_of...](https://www.researchgate.net/publication/242334321_Quantitative_Chemical_Analysis_of...)

Smoke generated by the interaction between lasers or electrocautery devices with biological tissue contains several toxic and carcinogenic substances, but only a few studies so far have provided ...

## Cutting electrocautery versus scalpel for surgical ...

<https://www.sciencedirect.com/science/article/pii/S0022480417304687>

Moreover, scalpel injuries are the second most common source of intraoperative injuries to the surgical staff following suture needle injuries, making the removal of the scalpel from the surgical theater more desirable. 55 Because coagulation electrocautery is more frequently used in cutting fascia and muscle, as well as achieving hemostasis, using cutting electrocautery for skin incision may eliminate the need to exchange tools during surgery...

Cited by: 2

Author: Ammar Ismail, Abdelrahman Ibrahim Abu...

Publish Year: 2017

## Mass Spectrometer Smells Out Tumor Cells During Surgery ...

<https://www.medgadget.com/2009/10/mass...>

Researchers from Justus-Liebig University in Giessen, Germany have now recognized that when surgeons are using electric cautery, the smoke that's released contains information about what is ...

## Hazards of Electrosurgical Smoke - ScienceDirect

<https://www.sciencedirect.com/science/article/pii/S1556793107000150>

The composition of surgical smoke and aerosol. Generally the composition of surgical smoke and aerosol generated by a laser or electrosurgical procedure is 95% water vapor and 5% other matter. It is this "other matter" that is potentially hazardous to the health of surgical personnel and their patients.

Cited by: 4

Author: Laura Pollock

Publish Year: 2007

See results for

Electrosurgery

Electrosurgery is the application of a high-frequency alternating polarity, electrical current to biological tissue a...



## Match Overview

1	<b>Crossref</b> 54 words Tseng, Hsin-Shun, Shi-Ping Liu, Shi-Nian Uang, Li-Ru Yang, Shien-Chih Lee, Yao-Jen Liu, and Dar-Ren Chen. "Canc	2%
2	<b>Crossref</b> 51 words L. Duedahl-Olesen. "POLYCYCLIC AROMATIC HYDROCA... BONS (PAH) IN DANISH SMOKED FISH AND MEAT PROD	2%
3	<b>Internet</b> 49 words crawled on 28-Dec-2016 <a href="http://office.wjgnet.com">office.wjgnet.com</a>	2%
4	<b>Internet</b> 37 words crawled on 13-Jul-2019 <a href="http://journals.plos.org">journals.plos.org</a>	1%
5	<b>Crossref</b> 32 words Jennifer D. Sisler, Justine Shaffer, Jhy-Charm Soo, Ryan F. LeBouf, Martin Harper, Yong Qian, Taekhee Lee. "In vitro t...	1%
6	<b>Internet</b> 21 words crawled on 14-Oct-2019 <a href="http://www.aensiweb.net">www.aensiweb.net</a>	1%
7	<b>Crossref</b> 17 words Miłosz Dobrogowski, Wiktor Wesołowski, Małgorzata Kucharska, Andrzej Sapota, Lech Pomorski. "Chemical composi	1%
8	<b>Internet</b> 15 words crawled on 07-Jul-2019 <a href="http://www.jcancer.org">www.jcancer.org</a>	1%
9	<b>Internet</b> 15 words <a href="http://www.ncbi.nlm.nih.gov">www.ncbi.nlm.nih.gov</a>	1%

## electrocautery smoke

**Name of Journal:** *World Journal of Orthopedics*

**Manuscript NO:** 51492

**Manuscript Type:** ORIGINAL ARTICLE

*Observational Study*

**Analysis of electrocautery smoke released from the tissues frequently cut in orthopedic surgeries.**

Ali Yeganeh , Mikaiel Hajializade, Alireza Pahlevan Sabagh, Babak Athari,

Mahbobeh Jamshidi, Mehdi Moghtadaei





7,890 Results

Any time ▼

## Surgical smoke control with local exhaust ventilation ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6460469>

Surgical smoke was generated with an **electrocautery surgical device** (model: ForceFX, Valleylab, Boulder, CO; output power of cut and coagulate were set at 35 watts) for 15 min. The activated (a mixed use of cut or coagulate mode) **electrocautery stainless steel blade** was contacted to the **tissue** and the blade was moved to fresh part of the **tissue** after approximately 5–10 sec of **smoke** generation.

Cited by: 5

Author: Taekhee Lee, Jhy-Charm Soo, Ryan F. Le...

Publish Year: 2018

## Cutting electrocautery versus scalpel for surgical ...

<https://www.sciencedirect.com/science/article/pii/S0022480417304687>

Moreover, scalpel injuries are the second most common source of intraoperative injuries to the **surgical staff** following suture needle injuries, making the removal of the scalpel from the **surgical theater** more desirable. 55 Because **coagulation electrocautery** is more frequently used in **cutting fascia** and muscle, as well as achieving hemostasis, using **cutting electrocautery** for **skin incision** may eliminate the need to exchange tools during **surgery**...

Cited by: 2

Author: Ammar Ismail, Abdelrahman Ibrahim Abu...

Publish Year: 2017

## Quantitative Chemical Analysis of Surgical Smoke Generated ...

[https://www.researchgate.net/publication/242334321\\_Quantitative\\_Chemical\\_Analysis\\_of...](https://www.researchgate.net/publication/242334321_Quantitative_Chemical_Analysis_of...)

Smoke generated by the interaction between lasers or **electrocautery devices** with **biological tissue** contains **several toxic** and **carcinogenic substances**, but only a few studies so far have provided ...

## Mass Spectrometer Smells Out Tumor Cells During Surgery ...

<https://www.medgadget.com/2009/10/mass...> ▼

Researchers from Justus-Liebig University in Giessen, Germany have now recognized that when **surgeons** are using **electric cautery**, the **smoke that's released** contains information about what is ...

## Hazards of Electrosurgical Smoke - ScienceDirect

<https://www.sciencedirect.com/science/article/pii/S1556793107000150>

The composition of **surgical smoke** and aerosol. Generally the composition of **surgical smoke** and aerosol generated by a laser or **electrosurgical procedure** is 95% water vapor and 5% other matter. It is this "**other matter**" that is potentially hazardous to the health of **surgical personnel** and their patients.