

2017-902 A NOVEL MIXTURE FOR INTRAVENOUS SEDATION

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Technology description

SUMMARY

UCLA researchers from the Department of Anesthesiology and Perioperative Medicine have developed a novel anesthetic mixture which combines anxiolytic, narcotic, and sedation effects in a safe, effective solution.

BACKGROUND

The common practice of intravenous sedation for surgery is to administer several medications in different syringes to reduce anxiety (anxiolytics), prevent pain associated with surgery (narcotics), provide continuous sedation (propofol) and prevent pain caused by propofol (lidocaine). It is very cumbersome to titrate all these medications simultaneously and the sedative effects on the patients are often unpredictable. These techniques are not only time consuming, but also unsafe since it is prone to over-sedation or under-sedation, leading to airway complications or injury if patients move during surgery.

INNOVATION

UCLA researchers have developed a novel technique to conduct intravenous sedation in a quantitatively controllable and predictable fashion. This new mixture offers several improvements over the conventional technique: the time to sedation is < 1 min, 90% of patients have no pain, and < 2% of patients require intervention for airway complications. Only a single syringe is required for the preparation and the sedation and analgesic result is greatly reproducible. This new mixture can also be made as a compound and delivered by infusion pump.

Application area

Anesthetic sedation

Advantages

Only one solution, one syringe needed

Vastly shorter time to sedation

High pain control

Vastly reduced airway complications

Quantitatively reproducible results

Institution

[University of California, Los Angeles](#)

Inventors

[Zhuang Fang](#)

HS Associate Clinical Professor

ANES

联系我们



叶先生

电话 : 021-65679356

手机 : 13414935137

邮箱 : yeyingsheng@zf-ym.com