

Gloystein D. Jackson K., Khajavi K. Innovative Technology System to Prevent Wrong Site Surgery, Capture & Reduce Near-Misses: A Longitudinal Review of 1187 cases. Submitted to The Joint Commission Journal on Quality and Patient Safety.

StartBox & Other Surgical Patents:

1. Percutaneous Pedicle Screw Revision System

Publication number: 20210113245

Abstract: The present invention describes a system, devices and methods for percutaneous pedicle screw revision procedures. The present invention utilizes a tulip rod stub/connector adapted to be used to extend pedicle screw/rod constructs with minimal disruption to surrounding soft tissue and without having to remove existing hardware.

Type: Application

Filed: December 9, 2020

Publication date: April 22, 2021

Inventors: Kaveh Khajavi, David E. Lane, II

2. Percutaneous pedicle screw revision system

Patent number: 10888355

Abstract: The present invention describes a system, devices and methods for percutaneous pedicle screw revision procedures. The present invention utilizes a tulip rod stub/connector adapted to be used to extend pedicle screw/rod constructs with minimal disruption to surrounding soft tissue and without having to remove existing hardware.

Type: Grant

Filed: July 6, 2018

Date of Patent: January 12, 2021

Assignee: Spinal Elements, Inc.

Inventors: Kaveh Khajavi, David E. Lane, II

3. Safety-Blade Dispenser and Related Methods

Publication number: 20200261177

Abstract: Safety-blade dispensers for safely storing surgical blades prior to surgery and optionally for retrieving used surgical blades after surgery. In either case, the safety-blade dispenser is configured to store one or more surgical blades in an orientation that allows a user to simply and safely attach a surgical tool handle to the surgical blades (and optionally remove the handle from the surgical blades) without requiring the user to physically touch or manipulate the surgical blades by hand. The safety-blade dispensers disclosed herein may be used alone or in conjunction with a system and method of preventing wrong-site surgery.

Type: Application

Filed: September 16, 2019

Kaveh Khajavi, MD, FACS Page 16 of 23 Publication date: August 20, 2020

Inventors: Kaveh Khajavi, David E. Lane, II, Luke Boland, Christopher Davis, John G. Kerwood

4. Safety-blade dispenser and related methods

Patent number: 10413378

Abstract: Safety-blade dispensers for safely storing surgical blades prior to surgery and optionally for retrieving used surgical blades after surgery. In either case, the safety-blade dispenser is configured to store one or more surgical blades in an orientation that allows a user to simply and safely attach a surgical

tool handle to the surgical blades (and optionally remove the handle from the surgical blades) without requiring the user to physically touch or manipulate the surgical blades by hand. The safety-blade dispensers disclosed herein may be used alone or in conjunction with a system and method of preventing wrong-site surgery.

Type: Grant

Filed: May 4, 2017

Date of Patent: September 17, 2019

Assignee: STARTBOX, LLC

Inventors: Kaveh Khajavi, David E. Lane, II, Luke Boland, Christopher Davis, John G. Kerwood

5. Percutaneous Pedicle Screw Revision System

Publication number: 20180310963

Abstract: The present invention describes a system, devices and methods for percutaneous pedicle screw revision procedures. The present invention utilizes a tulip rod stub/connector adapted to be used to extend pedicle screw/rod constructs with minimal disruption to surrounding soft tissue and without having to remove existing hardware.

Type: Application

Filed: July 6, 2018

Publication date: November 1, 2018

Inventors: Kaveh Khajavi, David E. Lane, II

6. SYSTEM AND METHOD FOR PREVENTING WRONG-SITE SURGERIES

Publication number: 20180289387

Abstract: A system and related methods of preventing wrong-site surgeries and blade-related injuries to OR personnel, which includes a computer software system (for use on computers or hand-held devices in the medical environment) in combination with a surgical supply carrier (such as a safety blade-dispenser or other surgical sharps dispenser). The surgical supply carrier comprises at least one component, such as a label, which prevents or impedes a surgeon from accessing one or more surgical instruments stored within until after a "time-out" is performed by the surgeon or authorized OR personnel to confirm various details including but not limited to correct patient, correct procedure, correct equipment, etc, before starting the intended surgical procedure. Data can be captured throughout the medical environment (from "decision-to-incision" and beyond) to assess wrong-site surgery data (including "near miss" data) and enable a host of analytics on wrong-site surgery prevention.

Type: Application

Filed: October 3, 2016

Publication date: October 11, 2018

Inventors: Kaveh Khajavi, David E. Lane, II, John G. Kerwood, Christopher Davis, Jonathan David Spangler, Timothy Brian Dentry

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7. MULTI-FUNCTIONAL SANITIZATION APPARATUS AND RELATED METHODS

Publication number: 20180280554

Abstract: The present invention relates to a method and apparatus for preventing bacterial cross-contamination between a user's personal item and a bacterially sensitive environment. More particularly, the present invention is directed to a method and apparatus for sanitizing a user's hands and cell phone prior to the user entering into a steril operating room, thereby minimizing the introduction of contaminants via the cell phone.

Type: Application

Filed: November 23, 2016

Publication date: October 4, 2018

Inventors: Kaveh Khajavi, David E. Lane

8. Percutaneous pedicle screw revision system

Patent number: 10039573

Abstract: The present invention describes a system, devices and methods for percutaneous pedicle screw revision procedures. The present invention utilizes a tulip rod stub/connector adapted to be used to extend pedicle screw/rod constructs with minimal disruption to surrounding soft tissue and without having to remove existing hardware.

Type: Grant

Filed: February 23, 2017

Date of Patent: August 7, 2018

Assignee: Amendia, Inc.

Inventors: Kaveh Khajavi, David E. Lane, II

9. Safety-Blade Dispenser and Related Methods

Publication number: 20170360523

Abstract: Safety-blade dispensers for safely storing surgical blades prior to surgery and optionally for retrieving used surgical blades after surgery. In either case, the safety-blade dispenser is configured to store one or more surgical blades in an orientation that allows a user to simply and safely attach a surgical tool handle to the surgical blades (and optionally remove the handle from the surgical blades) without requiring the user to physically touch or manipulate the surgical blades by hand. The safety-blade dispensers disclosed herein may be used alone or in conjunction with a system and method of preventing wrong-site surgery.

Type: Application

Filed: May 4, 2017

Publication date: December 21, 2017

Inventors: Kaveh Khajavi, David E. Lane, II, Luke Boland, Christopher Davis, John G. Kerwood

10. SYSTEM AND METHOD FOR PREVENTING WRONG-SITE SURGERIES

Publication number: 20170329911

Abstract: A container holds at least one surgical implement, has a lock mechanism, and has a signature label that impedes access to the surgical implement until the correct surgical site is confirmed. A method of using the container includes the steps of confirming the correct surgical site, signing the label and removing it from the container, placing the label in the medical record, unlocking the container, removing the implement, and beginning the surgery, wherein the surgical team is forced to pause to confirm the correct surgical site before starting the surgery. The system and method may also include a wrong site surgery profile used by individuals within the surgical procedure environment and third parties for tracking and determining if, and where, a wrong site surgical procedure occurred. The profile can be updated, tacked and monitored while a patient is interacting within the medical environment.

Type: Application

Filed: July 31, 2017

Publication date: November 16, 2017

Inventor: Kaveh Khajavi

11. System and method for preventing wrong-site surgeries

Patent number: 9721064

Abstract: A container holds at least one surgical implement, has a lock mechanism, and has a signature label that impedes access to the surgical implement until the correct surgical site is confirmed. A method of using the container includes the steps of confirming the correct surgical site, signing the label and removing it from the container, placing the label in the medical record, unlocking the container, removing the implement, and beginning the surgery, wherein the surgical team is forced to pause to confirm the correct surgical site before starting the surgery. The system and method may also include a wrong site

surgery profile used by individuals within the surgical procedure environment and third parties for tracking and determining if, and where, a wrong site surgical procedure occurred. The profile can be updated, tacked and monitored while a patient is interacting within the medical environment.

Type: Grant

Filed: October 2, 2015

Date of Patent: August 1, 2017

Assignee: StartBox, LLC

Inventor: Kaveh Khajavi

12. Percutaneous Pedicle Screw Revision System

Publication number: 20170164983

Abstract: The present invention describes a system, devices and methods for percutaneous pedicle screw revision procedures. The present invention utilizes a tulip rod stub/connector adapted to be used to extend pedicle screw/rod constructs with minimal disruption to surrounding soft tissue and without having to remove existing hardware.

Type: Application

Filed: February 23, 2017

Publication date: June 15, 2017

Inventors: Kaveh Khajavi, David E. Lane, II

13. Percutaneous pedicle screw revision system

Patent number: 9610104

Abstract: The present invention describes a system, devices and methods for percutaneous pedicle screw revision procedures. The present invention utilizes a tulip rod stub/connector adapted to be used to extend pedicle screw/rod constructs with minimal disruption to surrounding soft tissue and without having to remove existing hardware.

Type: Grant

Filed: July 25, 2014

Date of Patent: April 4, 2017

Assignee: Amendia, Inc.

Inventors: Kaveh Khajavi, David E. Lane, II

14. Spinal implant revision device

Patent number: 9451994

Abstract: A spinal implant revision device has a revision connector and a tulip member. The revision connector is configured for attachment to a pre-existing rod in a patient. The revision connector has a slotted opening configured to receive a first or a pre-existing rod. The tulip member is pivotally connected to the revision connector and movable in angularity within predetermined ranges in a first plane. This first plane is parallel to a rod to which the revision connector is attached. A second plane which is non-parallel to that first plane allows a second or new rod to be received in the tulip and allows the second rod to pivot relative to the first rod.

Type: Grant

Filed: June 30, 2015

Date of Patent: September 27, 2016

Assignee: Amendia, Inc.

Inventors: Dale Whipple, Jason Hayes Tillett, William C. Tally, Kaveh Khajavi

15. System and method for preventing wrong-site surgeries

Publication number: 20160022361

Abstract: A container holds at least one surgical implement, has a lock mechanism, and has a signature label that impedes access to the surgical implement until the correct surgical site is confirmed. A method

of using the container includes the steps of confirming the correct surgical site, signing the label and removing it from the container, placing the label in the medical record, unlocking the container, removing the implement, and beginning the surgery, wherein the surgical team is forced to pause to confirm the correct surgical site before starting the surgery. The system and method may also include a wrong site surgery profile used by individuals within the surgical procedure environment and third parties for tracking and determining if, and where, a wrong site surgical procedure occurred. The profile can be updated, tacked and monitored while a patient is interacting within the medical environment.

Type: Application

Filed: October 2, 2015

Publication date: January 28, 2016

Inventor: Kaveh Khajavi

16. System and method for preventing wrong-site surgeries

Patent number: 9168107

Abstract: A container holds at least one surgical implement, has a lock mechanism, and has a signature label that impedes access to the surgical implement until the correct surgical site is confirmed. A method of using the container includes the steps of confirming the correct surgical site, signing the label and removing it from the container, placing the label in the medical record, unlocking the container, removing the implement, and beginning the surgery, wherein the surgical team is forced to pause to confirm the correct surgical site before starting the surgery. Preferably, the container top may be removed and placed between the surgeon and surgical technician to define a no-hands “neutral zone” to avoid being stuck by the sharps. Also, the container preferably includes compartments for storing used sharps and/or a local anesthetic-loaded syringe, and the top may be replaced and secured for safely disposing of the sharps after the surgery.

Type: Grant

Filed: December 30, 2013

Date of Patent: October 27, 2015

Assignee: StartBox, LLC

Inventor: Kaveh Khajavi

17. Spinous process fixation plate and minimally invasive method for placement

Patent number: 9149305

Abstract: The invention is directed to a laterally inserted spinous process plating device and a method for installing the device using a minimally invasive procedure. The device includes a partially threaded bolt as well as a contralateral and ipsilateral fixation plates, a deployment nut, a lag nut and a locking nut. Each fixation plate includes a pair of wing portions that are pivotally connected to one another to facilitate installation. The each of the fixation plates includes anchoring elements.

Type: Grant

Filed: October 14, 2010

Date of Patent: October 6, 2015

Assignee: Latitude Holdings, LLC

Inventors: Kaveh Khajavi, David E. Lane

18. Percutaneous Pedicle Screw Revision System

Publication number: 20150032158

Abstract: The present invention describes a system, devices and methods for percutaneous pedicle screw revision procedures. The present invention utilizes a tulip rod stub/connector adapted to be used to extend pedicle screw/rod constructs with minimal disruption to surrounding soft tissue and without having to remove existing hardware.

Type: Application

Filed: July 25, 2014

Publication date: January 29, 2015
Inventors: Kaveh Khajavi, David E. Lane, II

19. System and method for preventing wrong-site surgeries

Publication number: 20140110298

Abstract: A container holds at least one surgical implement, has a lock mechanism, and has a signature label that impedes access to the surgical implement until the correct surgical site is confirmed. A method of using the container includes the steps of confirming the correct surgical site, signing the label and removing it from the container, placing the label in the medical record, unlocking the container, removing the implement, and beginning the surgery, wherein the surgical team is forced to pause to confirm the correct surgical site before starting the surgery. Preferably, the container top may be removed and placed between the surgeon and surgical technician to define a no-hands “neutral zone” to avoid being stuck by the sharps. Also, the container preferably includes compartments for storing used sharps and/or a local anesthetic-loaded syringe, and the top may be replaced and secured for safely disposing of the sharps after the surgery.

Type: Application

Filed: December 30, 2013

Publication date: April 24, 2014

Applicant: StartBox, LLC

Inventor: Kaveh Khajavi

20. Spinal implant revision device

Patent number: RE46840

Abstract: A spinal implant revision device has a revision connector and a tulip member. The revision connector is configured for attachment to a pre-existing rod in a patient. The revision connector has a slotted opening configured to receive a first or a pre-existing rod. The tulip member is pivotally connected to the revision connector and movable in angularity within predetermined ranges in a first plane. This first plane is parallel to a rod to which the revision connector is attached. A second plane which is non-parallel to that first plane allows a second or new rod to be received in the tulip and allows the second rod to pivot relative to the first rod.

Type: Grant

Filed: July 5, 2017

Date of Patent: May 15, 2018

Assignee: Amendia, Inc.

Inventors: Dale Whipple, Jason Hayes Tillett, William C. Tally, Kaveh Khajavi, Geoffrey Toon

21. System and method for preventing wrong-site surgeries

Patent number: 8616215

Abstract: A container holds at least one surgical implement, has a lock mechanism, and has a signature label that impedes access to the surgical implement until the correct surgical site is confirmed. A method of using the container includes the steps of confirming the correct surgical site, signing the label and removing it from the container, placing the label in the medical record, unlocking the container, removing the implement, and beginning the surgery, wherein the surgical team is forced to pause to confirm the correct surgical site before starting the surgery. Preferably, the container top may be removed and placed between the surgeon and surgical technician to define a no-hands “neutral zone” to avoid being stuck by the sharps. Also, the container preferably includes compartments for storing used sharps and/or a local anesthetic-loaded syringe, and the top may be replaced and secured for safely disposing of the sharps after the surgery.

Type: Grant

Filed: November 9, 2005

Date of Patent: December 31, 2013

Assignee: StartBox, LLC

Inventors: Kaveh Khajavi, James D. Griffin

22. Spinous process fixation plate and minimally invasive method for placement

Publication number: 20110087285

Abstract: The invention is directed to a laterally inserted spinous process plating device and a method for installing the device using a minimally invasive procedure. The device includes a partially threaded bolt as well as a contralateral and ipsilateral fixation plates, a deployment nut, a lag nut and a locking nut. Each fixation plate includes a pair of wing portions that are pivotally connected to one another to facilitate installation. The each of the fixation plates includes anchoring elements.

Type: Application

Filed: October 14, 2010

Publication date: April 14, 2011

Inventors: Kaveh Khajavi, David E. Lane

23. System and method for preventing wrong-site surgeries

Publication number: 20060096877

Abstract: A container holds at least one surgical implement, has a lock mechanism, and has a signature label that impedes access to the surgical implement until the correct surgical site is confirmed. A method of using the container includes the steps of confirming the correct surgical site, signing the label and removing it from the container, placing the label in the medical record, unlocking the container, removing the implement, and beginning the surgery, wherein the surgical team is forced to pause to confirm the correct surgical site before starting the surgery. Preferably, the container top may be removed and placed between the surgeon and surgical technician to define a no-hands "neutral zone" to avoid being stuck by the sharps. Also, the container preferably includes compartments for storing used sharps and/or a local anesthetic-loaded syringe, and the top may be replaced and secured for safely disposing of the sharps after the surgery.

Type: Application

Filed: November 9, 2005

Publication date: May 11, 2006

Inventors: Kaveh Khajavi, James Griffin