

OPEN REDUCTION AND INTERNAL FIXATION ORIF

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What is the difference between ORIF and internal fixation? Internal fixation refers to the components that are used to stabilise the bone (screws, plates or rods). ORIF is a two-stage process that is carried out in one procedure. The first stage repositions the broken bones and restores their normal alignment. This is called fracture reduction.

How painful is ORIF surgery? You can expect some pain and swelling around the cut (incision) the doctor made. This should get better within a few days after your surgery. But it is normal to have some pain for 2 to 3 weeks after surgery and mild pain for up to 6 weeks after surgery.

What are the benefits of ORIF surgery? Repairing your damaged bone is the most obvious benefit of ORIF surgery. Severe fractures won't heal correctly without surgery. A bone that doesn't heal properly is much more likely to break again in the future. Having ORIF makes sure the pieces of your bone are aligned properly.

How long does it take to recover from open reduction internal fixation? Complete recovery from ORIF surgery can take anywhere from three to 12 months, depending on what bone you broke and how severe the break was. You may need physical therapy after your surgery to help you regain full use of your limb. Here are some tips for taking care of yourself at home once your surgery is completed.

Is an ORIF considered major surgery? Recovery from ORIF surgery can take from three to twelve months and often requires physical therapy. It is major surgery with the potential for complications.

What is open reduction and internal fixation procedure? Open reduction and internal fixation (ORIF) is a type of surgery used to stabilize and heal a broken bone. You might need this procedure to treat your broken ankle. Three bones make up the ankle joint. These are the tibia (shinbone), the fibula (the smaller bone in your leg), and the talus (a bone in your foot).

How long does it take to walk after ORIF surgery? No walking on the foot is permitted until 6 weeks after surgery. You will then be allowed to walk in a walking boot. Postoperative office visit: A post-operative appointment may have already been set up.

What is the most painful orthopedic surgery? Shoulder replacement surgery, spinal fusion, and knee replacement surgery are often cited as some of the most painful orthopedic surgeries to recover from due to the extensive rehabilitation and pain management required.

What are the disadvantages of ORIF? Disadvantages include: Infection. Bleeding. Subacromial impingement (compression and inflammation of structures between acromion of the shoulder blade and humerus head) Frozen shoulder (shoulder pain and stiffness)

Do bones heal faster with plates and screws? Internal fixation has a number of advantages, such as: Faster healing time. Less chance of malunion (the bone heals in the wrong position) Less chance of nonunion (the bone does not heal)

What is the success rate of ORIF surgery? ... ORIF is a popular treatment for a pilon fracture as it boasts a 98% overall success rate in the study by Zwingmann, et al., [37] . Within a study by Ku, et al., however, the non-union rate is 8.4% [38]. ...

Which condition would most probably require an ORIF? You might need ORIF for a fracture that happens anywhere along your tibia or fibula. This includes portions that form part of your knee or ankle joint.

How long is physical therapy after ORIF surgery? Physiotherapy after ORIF of tibia and fibula Rehabilitation can take up to 6 months after you have had ORIF surgery to your lower leg.

What are the long term complications of internal fixation? Delayed complications include delayed union and nonunion, avascular necrosis of bone, reaction to internal fixation devices, complex regional pain syndrome, and heterotrophic ossification.

What is the difference between ex fix and ORIF? ORIF can restore the anatomic structure of the bone, but it cannot avoid dissecting soft tissues which associate with recovery. On the other hand, ExFix allows indirect reduction but causes less soft tissues damage.

What is the difference between internal fixation and external reduction and fixation? Fixation can be: Internal: Involves the use of devices internally (under the skin) positioned within the patient's body. External: The devices are screwed into fractured bones to exit the skin and are attached to a stabilizing structure outside the body.

What is the difference between exfix and ORIF? ORIF allows direct anatomical reduction, but at the expense of soft tissues dissection which associate with recovery. On the other hand, External Fixation allows indirect reduction and causes less soft tissue damage. However, a few studies conclude that External Fixation is associated with high rates of malunion.

What are three types of internal fixation to repair bones?

What is meant by internal fixation? Internal fixation: A surgical procedure that stabilizes and joins the ends of fractured (broken) bones by mechanical devices such as metal plates, pins, rods, wires or screws. Internal fixation is as opposed to external fixation of a fracture by a splint or cast.

The Effect of Organizational Citizenship Behavior on Organizational Performance

Question 1: What is organizational citizenship behavior (OCB)?

Answer: OCB is a form of employee behavior that goes beyond the minimum job requirements, benefiting both the organization and its members. It includes actions such as helping colleagues, taking initiative, and volunteering for assignments.

Question 2: How does OCB impact organizational performance?

Answer: OCB has numerous positive effects on organizational performance, including:

- **Improved productivity:** Employees who engage in OCB are more likely to help others, share knowledge, and contribute to a positive work environment, which can lead to higher productivity.
- **Enhanced employee satisfaction:** OCB fosters a positive and supportive work culture, which can increase employee satisfaction and engagement.
- **Reduced turnover:** Employees who feel valued and appreciate their colleagues are less likely to leave the organization.

Question 3: What are the different types of OCB?

Answer: There are five main types of OCB:

- **Altruism:** Helping others in the workplace.
- **Conscientiousness:** Going beyond job expectations in terms of punctuality, organization, and attention to detail.
- **Civic virtue:** Participating in and supporting workplace initiatives and events.
- **Loyalty:** Being committed to the organization and its goals.
- **Sportsmanship:** Accepting setbacks and disappointments gracefully and supporting colleagues.

Question 4: What factors influence OCB?

Answer: Several factors influence OCB, including:

- **Leadership:** Strong leadership sets the tone for OCB by encouraging and rewarding it.
- **Organizational culture:** A positive and supportive organizational culture fosters OCB.

- **Employee characteristics:** Individuals with high levels of empathy, conscientiousness, and self-efficacy are more likely to engage in OCB.

Question 5: How can organizations encourage OCB?

Answer: Organizations can encourage OCB by:

- **Providing training:** Develop programs to educate employees about OCB and its benefits.
- **Recognizing and rewarding OCB:** Establish formal and informal recognition systems to acknowledge and appreciate employees who engage in OCB.
- **Empowering employees:** Give employees the authority and resources to make decisions and contribute to the organization beyond their job descriptions.

The Scripture of the Lotus Blossom of the Fine Dharma: Questions and Answers

1. What is the Lotus Sutra?

The Lotus Sutra, also known as the Scripture of the Lotus Blossom of the Fine Dharma, is one of the most revered Buddhist scriptures. It is believed to contain the final teachings of the Buddha and is considered a profound and transformative text.

2. What is the central message of the Lotus Sutra?

The central message of the Lotus Sutra is that all beings possess the potential for enlightenment. According to the sutra, every being has the Buddha-nature within them, a primordial seed of wisdom and compassion. This potential is not limited to a select few but is inherent in all beings, regardless of their circumstances or past actions.

3. What is the symbolism of the lotus blossom in the Lotus Sutra?

The lotus blossom is a powerful symbol in Buddhism, representing purity, transformation, and spiritual growth. In the Lotus Sutra, the lotus serves as a metaphor for the Buddha's teachings, which guide us out of the mire of ignorance

and suffering and towards the path of enlightenment.

4. What are the key teachings of the Lotus Sutra?

The Lotus Sutra contains numerous teachings, including:

- The universality of enlightenment, available to all beings regardless of their differences
- The importance of compassion and empathy for all beings
- The significance of skillful means, adapting our teachings to the needs of others
- The power of faith and the importance of embracing the Buddha's teachings wholeheartedly
- The existence of immeasurable worlds and the interconnectedness of all beings

5. How can the Lotus Sutra benefit our lives?

Studying and practicing the teachings of the Lotus Sutra can bring transformative benefits to our lives. It can:

- Inspire us with hope and the conviction that we can achieve enlightenment
- Cultivate compassion and empathy for all living beings
- Provide guidance and support on our spiritual journey
- Help us break through limitations and realize our full potential
- Foster a profound sense of peace, meaning, and interconnectedness

Solved Examples in Chemical Engineering by Roy

Solved Example 1:

Question: A chemical reaction with the stoichiometric equation $A + 2B \rightarrow 3C$ is carried out in a continuous reactor with a feed rate of 100 mol/min of A and 200 mol/min of B. Determine the limiting reactant and calculate the molar flow rate of C.

Answer: The limiting reactant is B. The molar flow rate of C is 150 mol/min.

Solved Example 2:

Question: A gas mixture with a composition of 20% methane, 30% ethane, and 50% propane is compressed adiabatically from 1 bar and 298 K to 5 bar. Determine the final temperature of the mixture.

Answer: The final temperature of the mixture is 343 K.

Solved Example 3:

Question: A heat exchanger is used to cool a hot stream of water from 80°C to 60°C by exchanging heat with a cold stream of air. The hot stream has a flow rate of 100 kg/min and a specific heat capacity of 4.18 kJ/kg-K. The cold stream has a flow rate of 150 kg/min and a specific heat capacity of 1.00 kJ/kg-K. Determine the temperature change of the air stream.

Answer: The temperature change of the air stream is 20°C.

Solved Example 4:

Question: A distillation column is used to separate a mixture of benzene and toluene. The feed stream has a composition of 50% benzene and 50% toluene. The distillate stream has a composition of 90% benzene and 10% toluene. Determine the composition of the bottoms stream.

Answer: The composition of the bottoms stream is 10% benzene and 90% toluene.

Solved Example 5:

Question: A chemical plant produces 100 tons/day of ethanol using a fermentation process. The ethanol is then purified by distillation. Determine the minimum amount of cooling water required to condense the ethanol vapor at a rate of 100 tons/day.

Answer: The minimum amount of cooling water required is 250 tons/day.

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