

Bone Biology and Physiology: Part II. Clinical Correlates

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Summary: The principles of bone biology and physiology permeate all subspecialty practices in plastic and reconstructive surgery, from hand surgery to aesthetic surgery. Despite its importance in our practices, these topics rarely surface within textbooks, literature reviews, or residency curricula. The authors present the second portion of a two-part review of the important concepts of bone biology and bone physiology relevant to plastic surgery, in an effort to ameliorate this educational gap. (*Plast. Reconstr. Surg.* 129: 950e, 2012.)

As plastic surgeons, we will encounter cases in which outcomes are largely dependent on the regulated formation and/or turnover of bone. Thus, it is imperative to develop a deeper understanding of the intricate processes involved in bone biology and physiology to optimize the care of our patients. In follow-up to the first part of this review, here we will highlight clinical correlates of bone biology relevant to plastic surgeons.

FRACTURE HEALING

The fracture healing cascade is a highly coordinated and regulated process. There are two types of fracture healing: primary and secondary. Primary healing requires anatomic reduction and rigid fixation such that the bony edges are coapted with minimal gap; healing occurs by true osteonal healing and does not result in callus formation.^{1,2} This type of healing rarely occurs. Instead, most fractures heal by secondary fracture healing, which involves a combination of intramembranous and endochondral ossification and the subsequent formation of a callus.^{1,2} Unlike primary healing, secondary fracture healing is generally enhanced by micromotion and inhibited by absolute rigid fixation.³ The intramembranous ossification occurs within the medullary canal and via osteoprogenitor cells in the neighboring periosteum furthest from the fracture site.² The endochondral ossification creates what is called “soft callus” and occurs at adjacent periosteal edges and

surrounding soft tissues; it is this soft callus that initially stabilizes a fracture.

Like the wound-healing process, the fracture-healing cascade involves distinct, yet overlapping, stages. Initially, there is hematoma formation and release of inflammatory mediators, which leads to inflammation. This is followed by angiogenesis, cartilage production, bone formation, and lastly bone remodeling.⁴ The final remodeling phase is important for fracture-site strength because the initial bone produced within the callus is woven bone. The process of remodeling typically occurs by 3 weeks.⁵

The key elements in fracture healing closely resemble elements critical in wound healing, with the inflammatory phase being most important. Similarly to wounds, deficits in the normal fracture healing milieu can lead to detrimental effects on the overall outcome of healing.

Nonunion is the permanent failure of bone edges to heal. It is characterized by sclerosis of bone ends with a weak fibrous attachment that allows mobility of the fracture fragments.^{5,6} In general, nonunion can be diagnosed radiographically or clinically at 6 months; most cases will require reoperation with or without bone grafts or substitutes to heal.^{5,6} Although there may be many causes of nonunion, several systemic factors can increase this risk (Table 1). These factors disrupt the fracture-healing cascade in specific ways. Nicotine in cigarettes affects angiogenesis, resulting in relative ischemia. Diabetes results in an aug-

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Geraldine Hynes



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Table of Contents Principles Of Association Management 3rd Ed

1. Understanding the eBook Principles Of Association Management 3rd Ed
 - The Rise of Digital Reading Principles Of Association Management 3rd Ed
 - Advantages of eBooks Over Traditional Books
2. Identifying Principles Of Association Management 3rd Ed
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Principles Of Association Management 3rd Ed
 - User-Friendly Interface
4. Exploring eBook Recommendations from Principles Of Association Management 3rd Ed
 - Personalized Recommendations
 - Principles Of Association Management 3rd Ed User Reviews and Ratings
 - Principles Of Association Management 3rd Ed and Bestseller Lists
5. Accessing Principles Of Association Management 3rd Ed Free and Paid eBooks
 - Principles Of Association Management 3rd Ed Public Domain eBooks
 - Principles Of Association Management 3rd Ed eBook Subscription Services
 - Principles Of Association Management 3rd Ed Budget-Friendly Options

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 - ePub, PDF, MOBI, and More
 - Principles Of Association Management 3rd Ed Compatibility with Devices
 - Principles Of Association Management 3rd Ed Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Principles Of Association Management 3rd Ed
 - Highlighting and Note-Taking Principles Of Association Management 3rd Ed
 - Interactive Elements Principles Of Association Management 3rd Ed
8. Staying Engaged with Principles Of Association Management 3rd Ed
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Principles Of Association Management 3rd Ed
9. Balancing eBooks and Physical Books Principles Of Association Management 3rd Ed
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Principles Of Association Management 3rd Ed
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Principles Of Association Management 3rd Ed
 - Setting Reading Goals Principles Of Association Management 3rd Ed
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Principles Of Association Management 3rd Ed
 - Fact-Checking eBook Content of Principles Of Association Management 3rd Ed
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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