

骨科基础科学

骨关节肌肉系统生物学和生物力学

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骨科基础科学——骨关节肌肉系统生物学和生物力学

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《骨科基础科学——骨关节肌肉系统生物学和生物力学》一书中所采用的资料已被美国骨科医师学会(AAOS)用于教学。书中的资料不仅为医学实践中所涉及的问题提供了最好的解决方法或措施,还阐明了作者和医学实践者对这些问题的观点、态度和意见,这可能对面临同样问题的同行们有所裨益。

一些学院教材、学术刊物或电子出版物介绍或证明的药物或医疗器械尚未被美国食品和药物管理局(FDA)认可,或者只被允许用于特殊用途。FDA 已申明医生有责任核实将要用于临床的药物和医疗器械是否已得到 FDA 的许可。

在本书撰写期间,一种特殊方法即从后路植入椎体部分的骨螺钉获得了 FDA 用于临床的许可,其作为椎体融合的附件目的在于提供制动和固定的装置,可用于治疗下述急、慢性胸、腰、骶椎不稳或畸形;伴有明显神经损伤表现的退变性脊椎前移滑脱、骨折、错位、脊柱侧凸、脊柱后凸、脊椎肿瘤及前期融合术失败(假关节形成)。此外,前路椎体螺钉(颈、胸和腰椎)属于 II 级装置可作为标志在椎体上使用。

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ORTHOPAEDIC BASIC SCIENCE: BIOLOGY AND

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前 言

为了采取最佳的方法治疗肌肉骨骼系统的疾病和损伤,医生应该深入地了解构成肌肉骨骼系统的成分、结构和功能以及这些组织是如何融成一体,形成器官系统,提供人体的稳定性和运动性的。从事治疗肌肉骨骼系统疾病的医生和其他医务工作者需要全面地了解最新的医学信息。因此,我们在该书第一版(主编:Sheldon Simon)的基础上,对第二版《骨科基础科学:骨关节肌肉系统生物学和生物力学》一书的内容进行了扩充和提高。编辑和作者的目的在于为治疗和护理肌肉骨骼系统疾病提供所需的实用的、易懂的基础科学知识总汇。此次再版,资深科学家和临床医生深入而重点地详述了肌肉骨骼系统如:骨、软骨、肌腱、韧带、肌肉和椎间盘等的组成结构和功能。此外本书还介绍了与肌肉骨骼系统功能评定、疾病诊断相关的最新研究信息。更重要的是,本书还增加了一些新的章节,包括:分子和细胞生物学、疾病的遗传学基础、药理学、肌肉骨骼系统的核磁共振(MRI)、骨密度测定学、肌肉骨骼系统的移植、骨科炎症、骨科肿瘤和椎间盘等内容。有兴趣并致力于肌肉骨骼系统疾病研究和治疗的临床医生、科学家和医务辅助人员将会从中得到大量新的宝贵的医学信息资源,以进一步提高大家在肌肉骨骼系统的生物学和生物力学方面的认识。

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