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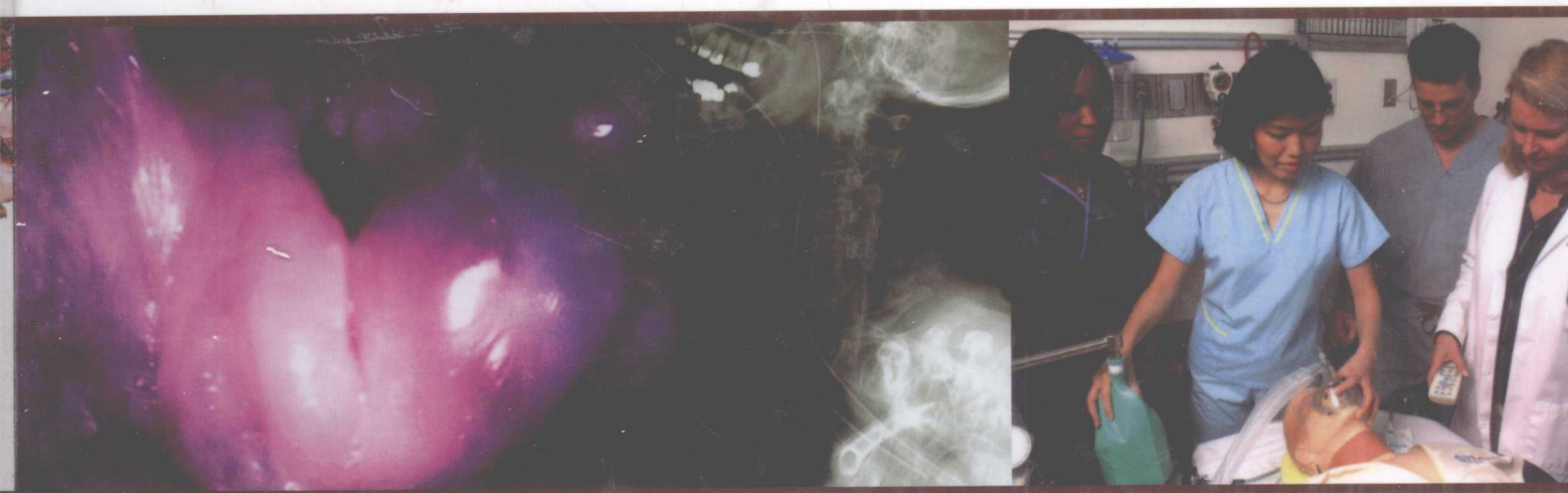
气道管理学 第2版

BENUMOF'S AIRWAY MANAGEMENT

原著 CARIN A. HAGBERG

主审 岳云 黄宇光

主译 田鸣 左明章 李天佐 邓晓明 韩如泉



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序

保证呼吸道通畅,维持正常的气体交换是接受麻醉患者、严重创伤患者、呼吸心跳骤停患者等危重患者抢救时必须首先解决的任务,是维持机体各器官功能正常,必要时进一步完成循环和中枢神经系统复苏、挽救肾脏功能的基本保证。麻醉科医师具有迅速建立人工气道、施行人工通气、确保有效气体交换的知识和技能,在急救复苏中起着重要的作用。

困难气道是指经过正规培训、具有一定临床麻醉经验的麻醉科医师使用常规器材,通过正常操作,不能够完成气管内插管,甚至无法完成有效人工通气的临床情况。困难气道包括预先经过检查、评估确定的困难气道;或预先未能确定,在操作过程中发现是困难气道;以及不仅气管内插管困难,就连完成有效的面罩通气亦困难等情况。无法完成气管内插管又无法完成有效通气,患者将出现二氧化碳潴留和缺氧,进而可导致心跳停止和脑缺氧性损害,这是万分紧急、极端危险的临床情况。有文献报道,50%以上麻醉相关的严重并发症是由气道管理不当引起的,在麻醉相关死亡病例中,约30%是由于困难气道处理失败造成的。

困难气道在临床麻醉和急救复苏中并非罕见,为了确保气道通畅,保证顺利完成人工通气,避免困难气道处理不当导致的缺氧性脑损伤、呼吸心跳骤停、不必要的气管切开、气道损伤以及牙齿损伤等不良后果,人们总在不断地研究、探索,寻找各种新的工具来帮助提高困难气道时气管内插管的成功率,或暂时无法完成气管内插管时,也能够借助一定的工具保证患者有效通气。由田鸣等教授翻译的《Benumof's Airway Management》将为我们提供系统的气道解剖、生理和药理知识,介绍目前世界上研制出来的众多解决困难气道的工具,这肯定能够为提高我国处理困难气道的水平,提高临床麻醉安全和质量起到重要的作用。

吴新民

2009年于北京

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计量单位换算表

本书为反映其英文原版之风格,并且避免反复换算带来不必要的计算错误,保留了部分英制计量单位。鉴于我国推广使用法定计量单位之要求,现将这些单位与法定计量单位的换算关系列表如下。本表仅供参考。

英制单位(符号)	法定计量单位(符号)	换算关系
埃 (Å)	米 (m)	$1 \text{ \AA} = 10^{-10} \text{ m}$
盎司(常衡) (oz)	克 (g)	$1 \text{ oz} = 28.35 \text{ g}$
盎司(药衡) (oz)	克 (g)	$1 \text{ oz} = 31.10 \text{ g}$
盎司(美液) (oz)	升 (L)	$1 \text{ oz} = 0.02957 \text{ L}$
盎司(英液) (oz)	升 (L)	$1 \text{ oz} = 0.02841 \text{ L}$
磅 (lb)	克 (g)	$1 \text{ lb} = 453.59 \text{ g}$
标准大气压 (atm)	帕 (Pa)	$1 \text{ atm} = 101325 \text{ Pa}$
达因 (dyn)	牛 (N)	$1 \text{ dyn} = 10^{-5} \text{ N}$
打兰(美液) (dr)	升 (L)	$1 \text{ dr} = 0.0037 \text{ L}$
打兰(英液) (dr)	升 (L)	$1 \text{ dr} = 0.00355 \text{ L}$
当量 (Eq)	摩尔 (mol)	$1 \text{ Eq} = 1 \text{ mol}$ (1价离子)
当量 (Eq)	摩尔 (mol)	$1 \text{ Eq} = 0.5 \text{ mol}$ (2价离子)
当量 (Eq)	摩尔 (mol)	$1 \text{ Eq} = 1/3 \text{ mol}$ (3价离子)
尔格 (erg)	焦 (J)	$1 \text{ erg} = 10^{-7} \text{ J}$
辐透 (ph)	勒 (lx)	$1 \text{ ph} = 10^4 \text{ lx}$
格令 (gr)	克 (g)	$1 \text{ gr} = 0.064799 \text{ g}$
毫米汞柱 (mmHg)	帕 (Pa)	$1 \text{ mmHg} = 133.322 \text{ Pa}$
华氏度 (°F)	开/摄氏度 (K/°C)	$1 \text{ }^\circ\text{F} = 5/9 \text{ K} (^\circ\text{C})^*$
加仑(美) (gal)	升 (L)	$1 \text{ gal} = 3.785 \text{ L}$
加仑(英) (gal)	升 (L)	$1 \text{ gal} = 4.546 \text{ L}$
居里 (Ci)	贝可 (Bq)	$1 \text{ Ci} = 3.7 \times 10^{10} \text{ Bq}$
卡 (Cal)	焦 (J)	$1 \text{ Cal} = 4.18 \text{ J}$
夸特 (qr)	千克 (kg)	$1 \text{ qr} = 12.70 \text{ kg}$
夸脱(美) (qt)	升 (L)	$1 \text{ qt} = 0.946 \text{ L}$
夸脱(英) (qt)	升 (L)	$1 \text{ qt} = 1.137 \text{ L}$
拉德 (rad)	戈 (Gy)	$1 \text{ rad} = 10^{-2} \text{ Gy}$
雷姆 (rem)	希 (Sv)	$1 \text{ rem} = 10^{-2} \text{ Sv}$
厘米水柱 (cmH ₂ O)	帕 (Pa)	$1 \text{ cmH}_2\text{O} = 98 \text{ Pa}$
哩 (mi)	米 (m)	$1 \text{ mi} = 1609 \text{ m}$
伦琴 (R)	库每千克 (C/kg)	$1 \text{ R} = 2.58 \times 10^{-4} \text{ C/kg}$
码 (yd)	米 (m)	$1 \text{ yd} = 0.914 \text{ m}$
品脱(美) (pt)	升 (L)	$1 \text{ pt} = 0.473 \text{ L}$
品脱(英) (pt)	升 (L)	$1 \text{ pt} = 0.568 \text{ L}$
蒲式耳(美) (bu)	升 (L)	$1 \text{ bu} = 35.24 \text{ L}$
蒲式耳(英) (bu)	升 (L)	$1 \text{ bu} = 36.37 \text{ L}$
英尺 (ft)	米 (m)	$1 \text{ ft} = 0.3048 \text{ m}$
英寸 (in)	米 (m)	$1 \text{ in} = 0.0254 \text{ m}$

* 此为温差度量的换算。对于温度而言可按下式换算:摄氏度 = 5/9(华氏度 - 32)

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