高等医药院校教材

临床医学双语教材

内科学 儿科学



临床医学双语教材

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责任编辑 赵永昌 封面设计 尹 岩 版式设计 何美玲 责任校对 常淑玉



定 价: 49.00元

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内科学 儿科学

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人民卫生出版社

图书在版编目 (CIP) 数据

临床医学双语教材 内科学 儿科学/肖传实等主编. 北京:人民卫生出版社,2007.8

ISBN 978-7-117-08636-3

I. 临··· Ⅱ. 肖··· Ⅲ. ①临床医学-双语教学-医学院校-教材②内科学-双语教学-医学院校-教材③儿科学-双语教学-医学院校-教材 Ⅳ. R4

中国版本图书馆 CIP 数据核字 (2007) 第 054406 号

临床医学双语教材

内科学 儿科学

主 编: 肖传实 李荣山

出版发行: 人民卫生出版社 (中继线 010-67616688)

地 址:北京市丰台区方庄芳群园3区3号楼

邮 编: 100078

网 址: http://www.pmph.com E - mail; pmph @ pmph.com

购书热线: 010-67605754 010-65264830

印 刷:北京智力达印刷有限公司

经 销:新华书店

开 本: 787×1092 1/16 印张: 28.25

字 数: 635 千字

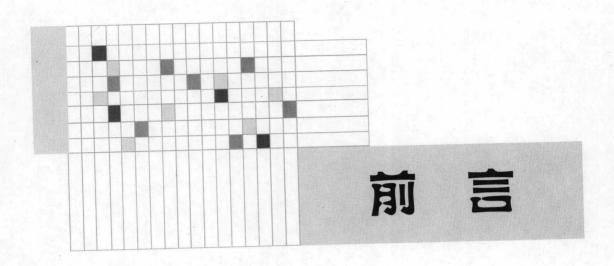
版 次: 2007年8月第1版 2007年8月第1版第1次印刷

标准书号: ISBN 978-7-117-08636-3/R · 8637

定 价: 49.00元

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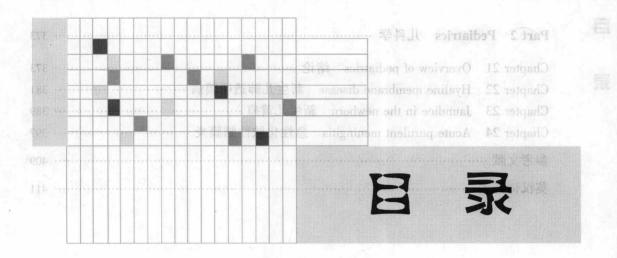


随着高等教育步伐的加快,双语教学日益成为培养国际化人才的重要手段。临床医学教育是医学院校的主体,其双语教学的开展和应用是高校办学水平的标志。为此我们组织一批有丰富临床医学教育经验的留学归国教师,共同编写了这本实用性较强的双语教材,为推进高等医学双语教学的教材建设尽微薄之力。

本书分为内科学、儿科学两大部分。内科学共分七节,涉及心内、呼吸、消化、肾内、内分泌、血液、风湿等七个系统。内容均以原版英文教材为基础,重点选择了常见病、多发病进行编写,难易适中,便于学生学习和理解,可供五年制、七年制医学生临床教学使用。

由于水平有限,书中错误之处在所难免,敬请读者指正。

编 者 2007年3月



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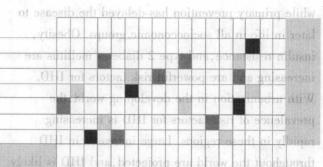
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Part 1 Physician

Chapter 1 Ischemic heart disease 缺血性心脏病

Ischemia refers to a lack of oxygen due to word 缺血是指由于心肌缺乏足够 inadequate perfusion of the myocardium, which 血液灌注引起的缺氧情况,从而引 causes an imbalance between oxygen supply and 起氧供与氧需求之间的不平衡。心 demand. The most common cause of myocardial 肌缺血的最常见的原因是心外膜 ischemia is obstructive atherosclerotic disease of epicardial coronary arteries.

Epidemiology H A LAND

Ischemic heart disease(IHD) causes more 在发达国家,相对于其他疾病 deaths and disability and incurs greater economic 而言,IHD 可以导致更多的死亡和 costs than any other illness in the developed world. 残疾以及引起更高的经济费用。在 IHD is the most common, serious, chronic, life- 美国, IHD 是一种最常见的严重、 threatening illness in the United States, where > 慢性威胁生命的疾病,有超过1千 12million persons have IHD, >6millon have angina 2 百万人患有缺血性心脏病,超过 pectoris, and >7million have sustained a myocardial 6 百万人发生过心绞痛, 超过 7 百 infarction. A high-fat and energy-rich diet, smoking, 万人患过心肌梗死。高脂肪和高热 and a sedentary life-style are associated with the 量的饮食,吸烟,惯于久坐的生活 emergence of IHD. In the United States and western 方式与 IHD 的发生相关。在美国和 Europe, it is growing amongst the poor rather than the 西欧,IHD 发生于穷人较发生于富 rich(who are adopting more healthful life-styles), 人更常见(后者采用更加健康的生

冠状动脉的阻塞性动脉粥样硬化 belanimob a 性疾病。 www.moo lamon edit

and controlled 学術方式。requirements for oxygen, This need is met by the ability of the coronary.

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while primary prevention has delayed the disease to later in life in all socioeconomic groups. Obesity, insulin resistance, and type 2 diabetes mellitus are increasing and are powerful risk factors for IHD. With urbanization in the developing world, the prevalence of risk factors for IHD is increasing rapidly in these regions. Large increases in IHD throughout the world are projected, and IHD is likely to become the most common cause of death worldwide by 2020.

Pathophysiology

Although the large epicardial coronary arteries are capable of constriction and relaxation, in healthy persons they serve as conduits and are referred to as conductance vessels, while the intramyocardial arterioles normally exhibit changes in tone and are therefore referred to as resistance vessels. Abnormal constriction of the conductance vessels can cause severe ischemia in Prinzmetal's angina. Abnormal 为变异性心绞痛(Prinzmetal's angiconstriction or failure of normal dilation of the na)。冠状动脉阻力血管异常收缩 coronary resistance vessels can also cause ischemia. When it causes angina this condition is referred to as microvascular angina.

The normal coronary circulation is dominated and controlled by the heart's requirements for oxygen. This need is met by the ability of the coronary vascular bed to vary its resistance(and therefore 脉血管床自身阻力大小改变(因此 blood flow) considerably while the myocardium 而引起的血流变化)来满足这种需 extracts a high and relatively fixed percentage of 求。正常情况下,心肌内阻力血管 oxygen. Normally, intramyocardial resistance vessels 具有巨大扩张能力。例如,伴随着 demonstrate an immense capacity for dilation. For 锻炼和情感压力,心脏对氧的需求 example, the changing oxygen needs of the heart with 变化影响着冠脉血管阻力并且以 exercise and emotional stress affect coronary 这种方式调整氧供和分配给心肌 vascular resistance and in this manner regulate the (代谢调节)。冠脉阻力血管同样适 supply of oxygen and substrate to the myocardium 应血压的生理改变,以能够满足冠 (metabolic regulation). The coronary resistance 脉血流在适宜心脏需求的水平(自 vessels also adapt to physiologic alterations in blood 身调节)。 was griwing at fit opened pressure in order to maintain coronary blood flow at all landless aroun grafqobs are only) data

活方式), 并且在全部的社会经济 人群中,初级预防将该病推迟到生 命的晚期。肥胖、胰岛素抵抗、2型 糖尿病发病的增高,对 IHD 而言都 是强有力的危险因素。随着发展中 国家的城市化,IHD 的危险因素的 流行,在这些地区快速增长。预测 IHD 将在全球范围内快速增长,到 2020年,IHD 可能成为全世界最主 要的死亡原因。

病理生理

虽然大的心外膜的冠状动脉 能够收缩和舒张,在健康人,这些 血管起着输出管作用被认为是传 输血管:而心肌内小动脉通常在正 常情况下可以调节血管张力,因此 被认为是阻力血管。传输血管异常 的收缩可以引起严重的心绞痛,称 或者不能正常的扩张同样能引起 缺血。在该种情况下引起的心绞 痛,被称为微血管心绞痛。

正常的冠脉循环由心脏对氧 的需求决定和控制。当心肌要吸收 相对高饱和度的氧时,可以通过冠

disturb the normal functions of the vascular

levels appropriate to myocardial needs endothelium. These functions include local control of EKINES IN T. (noitalugarotus)

By reducing the lumen of the coronary arteries, 当对血流的需求增加,例如活 atherosclerosis limits appropriate increases in 动和激动时,冠状动脉粥样硬化造 perfusion when the demand for flow is augmented, as 成管腔狭窄限制了灌注的相应增 occurs during exertion or excitement. When the 加。当管腔狭窄严重时,在基础状 luminal reduction is severe, myocardial perfusion in 态下的心肌灌注也是减少的。冠脉 the basal state is reduced. Coronary blood flow can 血流也同样受到痉挛、动脉血栓和 also be limited by spasm, arterial thrombi, and, 少见的冠脉栓塞,以及由于梅毒性 rarely, coronary emboli as well as by ostial narrowing 主动脉炎引起的瓣口狭窄的原因 due to luetic aortitis. Congenital abnormalities, such 所限制。先天异常,例如左前降支 as origin of the left anterior descending coronary 起源于肺动脉,在婴儿期也可以引 artery from the pulmonary artery, may cause 是可能是是心肌缺血和梗塞,但是该种原因 myocardial ischemia and infarction in infancy, but 在成人相当少见。心肌缺血也发生 this cause is very rare in adults. Myocardial ischemia 在心肌对氧需求显著增加、而冠脉 can also occur if myocardial oxygen demands are 血流量增加有限的情况下.例如由 markedly increased, and when coronary blood flow 于主动脉瓣狭窄时引起的严重的 may be limited, as occurs in severe left ventricular 左室肥厚,后者可以出现心绞痛症 hypertrophy due to aortic stenosis. The latter can 状,但难以与由冠状动脉粥样硬化 present with angina that is indistinguishable from that caused by coronary atherosclerosis. A reduction 的下降,如在极重度贫血、一氧化 in the oxygen-carrying capacity of the blood, as in 碳肌红蛋白血症,本身很少引起心 extremely severe anemia or in the presence of 则如如 肌缺血,但是可以降低具有冠脉狭 carboxyhemoglobin, rarely causes myocardial ~ 奉 奉 奉 家病人的缺血阈值。两种或两种以 ischemia by itself but it may lower the threshold for 上缺血原因并存并非少见.例如由 ischemia in patients with moderate coronary obstruction. Not infrequently, two or more causes of 氧供需求增加,和由于冠状动脉粥 ischemia coexist, such as an increase in oxygen 样硬化、贫血时的氧供减少。 demand due to left ventricular hypertrophy secondary medical berebner mulbispovin lo vittiaup to hypertension and a reduction in oxygen supply almost labeled and the virreves out someone before the control of the control secondary to coronary atherosclerosis and anemia. 28 dous alegacy ni anonomiado labilito, sud l

Clinical Manifestation

Coronary Atherosclerosis

Epicardial coronary arteries are the major site of 对 如外膜冠状动脉是动脉粥样 atherosclerotic disease. The major risk factors for 硬化疾病发生的主要位置。动脉粥 (LDL), low plasma high-density lipoprotein(HDL), 数低密度脂蛋白(LDL),低的血浆 cigarette smoking, hypertension, and diabetes mellitus 高密度脂蛋白(HDL),吸烟,高血

引起的心绞痛区别。血液携氧能力 Lasanda · 于继发于高血压的左心室肥厚对

所表现。 完成是表现。 是,临床表现

Laib assover bas sanwo (一) 冠状动脉粥样硬化 assal

disturb the normal functions of the vascular endothelium. These functions include local control of vascular tone, maintenance of an anticoagulant 控制局部血管张力,维持血管表面 surface, and defense against inflammatory cells. The 的抗凝状态以及抵御炎症细胞。防 constriction, luminal clot formation, and abnormal 编, 腔内血栓形成,血液里单核细 interactions with blood monocytes and platelets. The 胞与血小板之间异常的相互作用。 latter results in the subintimal collections of fat, 这些会进一步导致脂质、平滑肌细 smooth-muscle cells, fibroblasts, and intercellular 胞,成纤维细胞和细胞间基质(如, matrix(i.e., atherosclerotic plaques), which develop at 动脉粥样硬化斑块) 在内膜下沉 irregular rates in different segments of the epicardial 积,并在心外膜冠脉的不同部位以 coronary tree and lead eventually to segmental 无规律的速度发展,最终导致横断 reductions in cross-sectional area. When a stenosis 面积的部分减少。当一个狭窄减少 reduces the cross-sectional area by 75%, a full range 的横断面积达到 75%时, 血流增加 of increases in flow to meet increased myocardial 到最大程度也不可能满足心肌的 demand is not possible. When the luminal area is 需求。当管腔面积减少到≥80%,在 reduced by≥80%, blood flow at rest may be 休息时血流也会减少,更为严重的 reduced, and further minor decreases in the stenotic 是狭窄面积轻微少量增加,能够急 orifice can reduce coronary flow dramatically and 剧减少冠脉血流引起心肌缺血。 cause myocardial ischemia.

Segmental atherosclerotic narrowing of 心外膜冠脉节段性的动脉硬 epicardial coronary arteries is caused most commonly 化狭窄通常是由斑块形成造成的, by the formation of a plaque, which is subject to 斑块可以出现裂纹、侵蚀、出血以 fissuring, erosion, hemorrhage, and thrombosis. Any of 及血栓。任何一种情况能加重梗 these events can temporarily worsen the obstruction, 照, 過少冠脉血流,并且引起心肌 reduce coronary blood flow, and cause clinical manifestations of myocardial ischemia, as described 缺血心肌的数量和决定临床表现 below. The location of the obstruction influences the 的严重程度。关键部位的血管阻塞 quantity of myocardium rendered ischemic and 如左主干或左前降支近段具有极 determines the severity of the clinical manifestations. 大的危险性。严重的冠脉狭窄和心 Thus, critical obstructions in vessels such as the left 肌缺血通常伴随侧支血管形成,特 main coronary artery or the proximal left anterior descending coronary artery are particularly hazardous. Severe coronary narrowing and myocardial ischemia are frequently accompanied by the 需求,但是在需求量增加时,则不 development of collateral vessels, especially when the 就满足血流供应。bounded and the second narrowing develops gradually. When well developed, I missib-wol smasky fight eigonologoradus such vessels can, by themselves, provide sufficient metogogil yhaneb-dgid amasiq wol. (JOL) blood flow to sustain the viability of the myocardium adain but noise attenues atten

压和糖尿病干扰血管内皮细胞的 正常功能。血管内皮细胞功能包括

········· 缺血的临床表现。 梗阻的部位影响 别是当狭窄缓慢发生时。当侧支血 管形成较好时,侧支本身能提供足 够的血流以维持静息时心肌细胞

at rest but not during conditions of increased demand. 用量体。野坑栗角油加

Once stenosis of a proximal epicardial artery has —旦近端心外膜的动脉狭窄 reduced the cross-sectional area by ≥70%, the distal 横断面的面积减少到≥70%时, 远 resistance vessels(when they function normally) 端的阻力血管(当它们功能正常 dilate to reduce vascular resistance and maintain (1) 扩张以减少血管阻力以维持冠 coronary blood flow. A pressure gradient develops 脉血流。狭窄近端部位的压力梯度 across the proximal stenosis, and poststenotic pressure falls. When the resistance vessels are maximally dilated, myocardial blood flow becomes 肌血流变为依赖于阻塞远端冠状 dependent on the pressure in the coronary artery 动脉的压力。在这种情形下,体力 distal to the obstruction. In these circumstances 活动、情感压力、和/或心动过速引 ischemia, manifest clinically by angina or electrocardiographically by ST-segment depression, 血的情况就以心绞痛症状或者是 can be precipitated by increases in myocardial 心电图 ST 段压低表现出来。由于 oxygen demands caused by physical activity, 生理上的血管舒缩致狭窄冠脉管 emotional stress, and/or tachycardia. Changes in the 经变化,内皮扩张控制能力的丧 caliber of the stenosed coronary artery due to select the sel physiologic vasomotion, loss of endothelial control of 编),或者小的血小板栓子均能够 dilation, pathologic spasm(Prinzmetal's angina), or 打破供氧和需氧之间的临界平衡 small platelet plugs can also upset the critical 并且加重心肌缺血。 whether the damage is reversible (< 20 such balance between oxygen supply and demand and thus | < 20 such balance between oxygen supply and demand and thus | < 20 such balance between oxygen supply and demand and thus | < 20 such balance between oxygen supply and demand and thus | < 20 such balance between oxygen supply and demand and thus | < 20 supply and demand and de precipitate myocardial ischemia.

IN Effects of Ischemia 图形的 《National Islamow 缺血影响 a diw Industrial at

During episodes of inadequate perfusion caused by coronary atherosclerosis, myocardial tissue oxygen 的低灌注发生时, 心肌组织的氧分 tension falls and may cause transient disturbances of 压下降,并且可以引起心肌短暂的 the mechanical, biochemical, and electrical functions 电生理、生化、机械功能的紊乱。当 of the myocardium. The abrupt development of severe 发生完全或次全闭塞时,突然严重 ischemia, as occurs with total or subtotal coronary 的缺血,立刻会导致心肌收缩和舒 occlusion, is associated with almost instantaneous 张受损。相对于灌注低下的心内膜 failure of normal muscle contraction and relaxation. 下,缺血情况则更加严重。大面积 The relatively poor perfusion of the subendocardium 室壁缺血可引起短暂的左室衰竭, causes more intense ischemia of this portion of the 并且如果累及乳头肌,二尖瓣返流 wall. Ischemia of large portions of the ventricle 可加重左心衰竭。当缺血时间短 causes transient left ventricular failure, and if the Manh 暂,可以表现为心绞痛发作;当缺 papillary muscles are involved, mitral regurgitation 血时间延长,就可以引起心肌坏死 can complicate this event. When ischemia is transient, it may be associated with angina pectoris; 床表现的疤痕形成。冠状动脉粥样

是增高的,而狭窄远端的压力是下 降的。当阻力血管极度扩张时,心

在由冠状动脉粥样硬化引起 和形成伴有或不伴有急性心梗临 6

when it is prolonged, it can lead to myocardial necrosis and scarring with or without the clinical picture of acute myocardial infarction. Coronary 乱能引起节段性的运动障碍,严重 atherosclerosis is a focal process that usually causes 者,如室壁膨出可以极大降低心脏 nonuniform ischemia. Regional disturbances of 的泵血功能。 ventricular contractility cause segmental akinesis or, in severe cases, bulging (dyskinesia), which can be a little but a superior of the control of th greatly reduce myocardial pump function.

A wide range of abnormalities in cell metabolism, function, and structure underlie these 许多方面的异常成为在心肌缺血 mechanical disturbances during ischemia. The normal 时心脏机械舒缩的紊乱的基础。正 myocardium metabolizes fatty acids and glucose to 常的心肌细胞可以使脂肪酸和葡 carbon dioxide and water. With severe oxygen deprivation, fatty acids cannot be oxidized, and 严重缺氧, 脂肪酸不能被氧化及葡 glucose is broken down to lactate; intracellular pH is 萄糖被分解转变成乳酸; 当心肌细 reduced, as are the myocardial stores of high-energy 胞内有高能磷酸、三磷酸腺苷和磷 phosphates, i.e., ATP and creatine phosphate. 酸肌酸蓄积时,细胞内的 pH 值减 Impaired cell membrane function leads to the leakage 小。细胞膜受损导致钾离子溢出细 of potassium and the uptake of sodium by myocytes. 胞外,钠离子进入细胞内。心肌氧 The severity and duration of the imbalance between 气供应和需求的不平衡的严重程 myocardial oxygen supply and demand determine 度和持续时间决定了是否心肌细 whether the damage is reversible (≤20 min for total 胞的损害是可逆的(没有侧支循环 occlusion in the absence of collaterals) or whether it is permanent, with subsequent myocardial necrosis(>

Ischemia also causes characteristic changes in 心肌缺血可以引起特征性的 the electrocardiogram(ECG) such as repolarization 心电图的改变比如复极异常,在心 abnormalities, as evidenced by inversion of T waves 电图可表现为 T 波倒置, 当心肌缺 and, when more severe, by displacement of ST 血更严重时在心电图中可表现为 segments. Transient ST-segment depression often ST 段移位。短暂的 ST 段压低常常 reflects subendocardial ischemia, while ST-segment 反映心内膜下的缺血, 当 ST 段抬 elevation is thought to be caused by more severe 高时通常认为是更严重的心肌透 transmural ischemia. Another important consequence 壁性缺血。另外一个心肌缺血更严 of myocardial ischemia is electrical instability, which 重的后果是心脏的电生理不稳定, may lead to ventricular tachycardia or ventricular 这可以导致室性心动过速和心室 fibrillation. Most patients who die suddenly from IHD 颤动。大多数因缺血性心脏病发生 do so as a result of ischemia-induced ventricular 猝死的原因是由于缺血诱发的快 tachyarrhythmias.

Asymptomatic versus Symptomatic IHD (二) 无症状及有症状的缺血

Dearent 硬化是一个引起非均质性心肌缺 血的重要过程。心室局部的收缩紊

ans alorsov an 心肌细胞代谢、功能和结构等 完全闭塞达≤20分钟)或心肌细胞 的损害是永久性的,伴发心肌坏死 During episodes of (钟んの会) erfusion caused

Postmortem studies on accident victims and 西方国家从车祸和战争死亡 military casualties in western countries have shown 的尸检研究表明,冠状动脉粥样硬 that coronary atherosclerosis often begins to develop 化的病变在 20 岁以前即开始发 prior to age 20 and is widespread even among adults 生,而在生前无缺血症状的成年人 who were asymptomatic during life. Exercise stress 中,有冠状动脉粥样硬化者十分常 tests in asymptomatic persons may show evidence of 见。无症状者通过运动试验可以揭 silent myocardial ischemia, i.e., exercise-induced 示有隐匿性心肌缺血的证据、即, ECG changes not accompanied by angina pectoris: 运动诱发缺血性心电图的改变,而 coronary angiographic studies of such persons may 不伴发心绞痛:对这些病人的冠状 reveal coronary artery obstruction. Postmorten 动脉造影常显示有阻塞性冠状动 examination of patients with such obstruction without 脉疾病。对有阻塞性冠状动脉疾 a history of clinical manifestations of myocardial 病,而无任何临床心肌缺血表现的 ischemia often shows macroscopic scars secondary to 患者的尸检研究表明,在有病变冠 myocardial infarction in regions supplied by diseased 状动脉供血的区域内,常可见到心 coronary arteries. According to population studies, 加梗死的瘢痕。根据普查、大约 ~25% of patients who survive acute myocardial infarction may not reach medical attention, and these 病人并没有去医院看病,这些病人 patients carry the same adverse prognosis as those 与有典型临床症状的病人预后是 who present with the classic clinical syndrome. 相同的。猝死可无任何先兆症状, Sudden death may be unheralded and is a common 但又是缺血性心脏病常见的表现。 presenting manifestation of IHD. Patients with IHD 病人也可出现因左室心肌缺血损 can also present with cardiomegaly and heart failure 伤而导致的心脏肥大和心力衰竭。 secondary to ischemic damage of the left ventricular 而这些心肌的损伤在无心衰发展 myocardium that may have caused no symptoms prior 之前可无任何症状,这种情况被称 to the development of heart failure; this condition is 为缺血性心肌病。与无症状缺血性 referred to as ischemic cardiomyopathy. In contrast to 心脏病相反,有症状的缺血性心脏 the asymptomatic phase of IHD, the symptomatic 病或因心绞痛或因急性心肌梗死 phase is characterized by chest discomfort due to 出现胸部不适。进入有症状时期, either angina pectoris or acute myocardial infarction. 病人可表现呈稳定性或恶化的病 Having entered the symptomatic phase, the patient 程,也可能回复至无症状状态或发 may exhibit a stable or progressive course, revert to 生猝死。 the asymptomatic stage, or suddenly die. , anigna not blodsendt bezil a trogen stresitag vnaM

Stable Angina Pectoris

This episodic clinical syndrome is due to 这种发作性的临床综合征是 transient myocardial ischemia. Males constitute~70% 由于短暂的心肌缺血所致。心绞痛 of all patients with angina pectoris and an even 病人中男性约占 70%, 在 50 岁以 greater fraction of those <50 years.

性心脏病

25%这些发生过心肌梗死而存活的

lo lavel min (三) 稳定性心绞痛 soo deidw

www.laib下病人中男性所占的比例甚至更 demand. In other patients the thre fold for angina

History

years or a woman >60 years who complains of chest 的男性病人,或 60 岁以上的女性 discomfort, usually described as heaviness, pressure, 病人, 主诉胸部不适,常为沉重感、 squeezing, smothering, or choking and only rarely as 压迫感、挤压感、窒息感或哽塞感, frank pain. When the patient is asked to localize the 很少为明确的疼痛。当要求病人明 sensation, he or she will typically press on the 确指出胸部不适的具体部位时,他 sternum, sometimes with a clenched fist, to indicate a 们常将手压在胸骨上,或用一个拳 squeezing, central, substernal discomfort(Levine's 头表明其胸骨后中部的压榨感觉。 sign). Angina is usually crescendo-decrescendo in 这一症状常呈自然地渐增-渐减过 nature, typically lasts 2 to 5 min, and can radiate to 程, 典型的持续 2~5 分钟,心绞痛 the left shoulder and to both arms, especially to the 可放射至左肩和双臂,特别是前臂 ulnar surfaces of the forearm and hand. It can also 和手的尺侧。也可放射至背,颈, arise in or radiate to the back, interscapular region, 颊, 齿和上腹部。心绞痛很少累及 root of the neck, jaw, teeth, and epigastrium. Angina har 脐部以下和下颌骨以上。hibraryoum is rarely localized below the umbilicus or above the nonsingod of gnilosof Assirenta yunnoos -25% of patients who survive acute myocardial mandible. 图题即位长来发生发色20

by exertion(e.g., exercise, hurrying, or sexual second as also (如运动、快走或性生活)或情绪激 activity) or emotion(e.g., stress, anger, fright, or 动(如应激、发怒、受惊、受挫折)而 frustration) and are relieved by rest, they may also 引起,同时可因休息而缓解,但也 occur at rest (Unstable Angina Pectoris) and at night 可在休息时发生(不稳定型心绞 while the patient is recumbent (angina decubitus). 痛)或在夜间病人平卧位时发生 The patient may be awakened at night distressed by (卧位心绞痛)。病人可在夜间因典 typical chest discomfort and dyspnea. Nocturnal 型的胸痛和呼吸困难而惊醒。夜间 angina may be due to episodic tachycardia or to the 心绞痛的发生可能由于心动过速 expansion of the intrathoracic blood volume that 发作或由于卧位胸腔内血容量增 occurs with recumbency; the latter causes an increase 加所引起;后者可增加心脏的体积 in cardiac size and myocardial oxygen demand that 和心肌的耗氧量,从而导致心肌缺 lead to ischemia and transient left ventricular failure. Labo 血和左心衰发生。 1990 migus tealise

The threshold for the development of angina 诱发心绞痛的负荷阈值在一 pectoris may vary by time of day and emotional state. 日之内因时间不同和情绪变化而 Many patients report a fixed threshold for angina, 有所不同。许多病人诉说心绞痛有 which occurs predictably at a certain level of activity, such as climbing two flights of stairs at a 个特定的活动水平,诸如以正常的 normal pace. In these patients coronary stenosis and 速度上两层楼时。在这些病人冠状 myocardial oxygen supply are fixed and ischemia is 动脉狭窄和心肌的耗氧量是固定 precipitated by an increase in myocardial oxygen demand. In other patients the threshold for angina

1. 病史

The typical patient with angina is a man >50 典型的心绞痛见于 50 岁以上

Although episodes of angina are typically caused 虽然心绞痛的发作是由用力

一个固定的阈值,心绞痛发生在一 不变的,缺血由于心肌的需氧量增 加而诱发。在另一些病人其心绞痛

may vary considerably within any given day and from 的阈值在一天内或每天之间有相 day to day. In such patients variations in myocardial 当大的变化的。这些病人在心脏供 oxygen supply, most likely due to changes in 氧的变化,很可能是由于冠脉血管 coronary vascular tone, may play an important role. A 张力的改变所致。某些病人可诉说 patient may report symptoms upon minor exertion in 在早上很轻微的活动(如短途步行 the morning(a short walk or shaving) yet by midday may be capable of much greater effort without 午可以负担重得多的劳动而无症 symptoms. Angina may also be precipitated by 数据 状。进行不熟悉的工作、饱餐和暴 unfamiliar tasks, a heavy meal, exposure to cold, or a 露于寒冷的环境均可能诱发心绞 combination. Exertional angina is typically relieved 痛。典型的劳累性心绞痛可在休息 by rest in 1 to 5 min and even more rapidly by rest and sublingual nitroglycerin. Indeed, the diagnosis of 舌下含服硝酸甘油可以更快缓解。 angina should be suspect if it does not respond to the 事实上,如果心绞痛的症状通过以 combination of these two measures. The severity of angina can be expressed by the Canadian Cardiac Society functional classification.

Sharp, fleeting chest pain or prolonged, dull 锐性闪逝性疼痛或局限于左 aches localized to the left submammary area are 乳房下区域的持续钝痛很少是由 rarely due to myocardial ischemia. However, angina 于心肌缺血所致。但心绞痛的部位 pectoris may be atypical in location and not strictly 也可以不典型,也可与诱发因素的 related to provoking factors. In addition, this symptom 关系不密切。另外,这一症状也可 may exacerbate and remit over days, weeks, or 能在数日内、数周内或数月内加重 months. Its occurrence can be seasonal, being more 或缓解。心绞痛的发作还可能有季 frequent in the winter in temperate climates. Anginal 节性, 在冬天心绞痛更容易发作。 "equivalents" are symptoms of myocardial ischemia 心肌缺血但并不是心绞痛的临床 other than angina. These include dyspnea, fatigue, 表现还有呼吸困难、疲劳和衰弱, and faintness and are more common in the elderly 常见于老年人和糖尿病患者。 and in diabetic patients.

Grading of Angina Pectoris According to 2. CCS 心绞痛的分级 CCS Classification other risk factors for coronary atherosclerosis. The

Class Description of Stage

- I "Ordinary physical activity does not cause...... I "日常的体力活动不能引起 angina," such as walking or climbing stairs. 心绞痛"诸如走路和爬楼梯。 Angina occurs with strenuous, rapid, or 在工作中或娱乐时紧张的, prolonged exertion at work or recreation. 快速的, 持久的劳累可以导
- II "Slight limitation of ordinary activity." Angina occurs on walking or climbing stairs rapidly; 痛的发生常出现在快速走 walking uphill; walking or stair climbing after 路、爬楼梯; 走路上坡; 饭后

或修面)即可诱发心绞痛,而在中 1~5 分钟内缓解, 甚至通过休息和 上两种方法得不到缓解,就要怀疑 心绞痛的诊断。加拿大心脏学会对 diwmin心绞痛的严重程度进行了分级。

and and all 级别 manage 级别概述 the wanter

- 致心绞痛的发生。omstrogmi
- \mathbf{II} "日常活动的轻微限制"心绞

meals; in cold, in wind, or under emotional 走路和爬楼梯;寒冷天气:刮 stress; or only during the few hours after 风天气:情绪激动的状况下: awakening.Angina occurs on walking>2blocks 或仅在睡醒后的几个小时之 on the level and climbing>1flight of ordinary 内。心绞痛发生在走路达到 stairs at a normal pace and under normal 两个街区,或以正常的速度 中在 conditions. 发表 再明 (面 熱 英 washbin yd for (gniver上一层以上楼梯时。info of the

Ⅲ "Marked limitations of ordinary physical "显著的日常活动的限制"心 activity."Angina occurs on walking 1 to 2 / 绞痛发生在走路在 1~2 个街 blocks on the level and climbing 1 flight of STATE OF ST 思知 stairs under normal conditions and at a normal 速度上一层楼时。 institutions by rest in 1 to 5 min and even more rapidly by rest 1-5 分钟内资解,甚至i.spac 息和

IV "Inability to carry on any physical activity Word "只要进行任何日常活动都会 without discomfort"—anginal symptoms may gentle 有心绞痛发作"——休息时 be present at rest.

Systematic questioning of the patient with suspected IHD is important to uncover the features of 统问诊很重要,可以揭示对于增加 an unstable syndrome associated with increased risk, 不稳定症状危险因素的特征.诸如 such as angina occurring at rest or awakening the 心绞痛发生在休息还是由于心绞 patient from sleep. Since coronary atherosclerosis is 痛从睡眠中惊醒。因为冠状动脉粥 often accompanied by similar diseases in other 样硬化常伴随着其他动脉的相似 arteries, the patient with angina should be questioned 的疾病,所以对心绞痛患者应该询 and examined for peripheral arterial disease 阿加拉查是否有周围动脉疾病(间 (intermittent claudication,, stroke, or transient 歇性跛行)、中风或是短暂性脑缺 ischemic attacks. It is also important to uncover a 血发作。发现缺血性心脏病的早发 family history of premature IHD(<45 years in first-的家族史(在直系亲属中男性小于 degree male relatives and <55 in female relatives) 45 岁,女性小于 55 岁)、糖尿病、高 and the presence of diabetes mellitus, hyperlipidemia, hypertension, cigarette smoking, and 冠状动脉粥样硬化危险因素是非 other risk factors for coronary atherosclerosis. The history of typical angina pectoris establishes the diagnosis of IHD until proven otherwise. In patients 型的心绞痛的患者,老年、男性、绝 with atypical angina, the coexistence of advanced 经后状态和动脉粥样硬化的共同 age, male gender, the postmenopausal state, and risk 存在增加了冠状动脉疾病发生的 factors for atherosclerosis increase the likelihood of more 可能性。 in notifiers beginning important coronary disease.

常 Physical Examination * I snignA virtues v3. 体格检查 mind mail?

This is often normal in patients with stable 有效的 在稳定型心绞痛患者体格检 angina, but it may reveal evidence of atherosclerotic 查常可正常,但在其他方面可能揭

lo virgoves en Trees 也有心绞痛发生。noisenidatoo

angina can be expressed by the Canadian Cardiac 对怀疑缺血性心脏病患者系 脂肪血症、高血压、吸烟以及其他 常重要的。典型的心绞痛病史确立 了缺血性心脏病的诊断。在有非典