新高中體育課程詮釋 23.1.2008

健康生活:知識、態度和技能

Healthy Living: Knowledge, Attitude, and Skills

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Health

Tradition

■ Free from disease

1947 WHO

 Health is a state of complete physical, mental, and social well-being, and not merely the absence of disease and infirmity

Physical Fitness

 Physical fitness is ability to perform muscular work satisfactorily

 Determined by several variables including habitual physical activity level, diet, and heredity Heath-related fitness

Cardio-respiratory
endurance
Muscular endurance
Muscular strength
Body composition
Flexibility

Physical fitness

Skill-related fitness

Agility
Balance
Co-ordination
Speed
Power
Reaction time

Physiological Fitness

- Physiological fitness refers to biological system
- Comprises blood pressure, glucose tolerance & insulin sensitivity, blood lipid level & lipoprotein profile, body composition & fat distribution, stress tolerance
- Influenced by the level of habitual PA

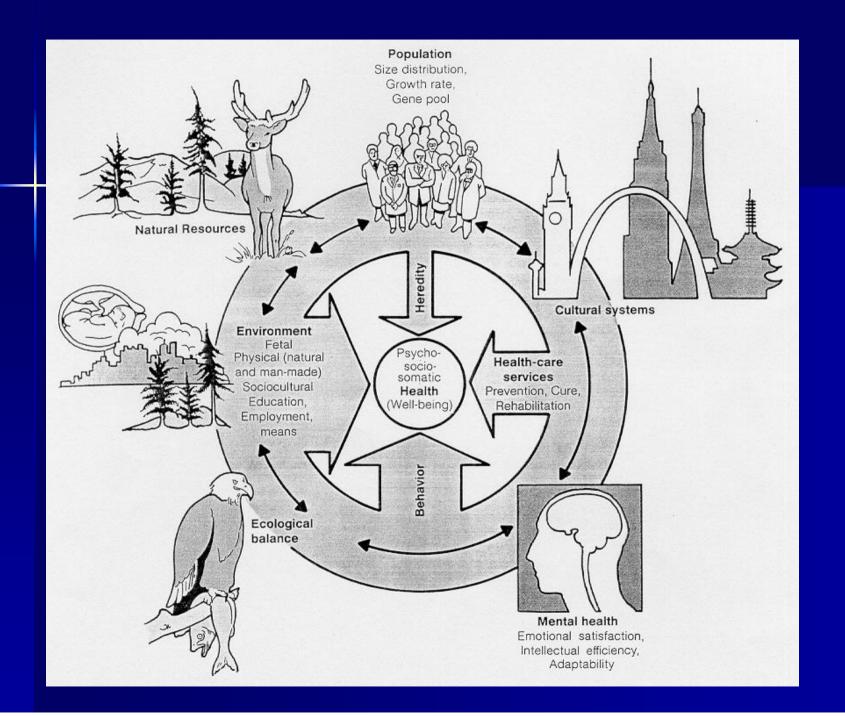
Lifestyle

- Lifestyle comprises the aggregate of an individual's behaviors, actions, and habits which can affect personal health
- Major lifestyle factors
 - Cigarette smoking
 - Alcohol and drugs
 - Eating habits
 - Exercise
 - Stress control
 - Safety care

"Environment of Health" Model

■ Is a model to describe the major determinants of health

- Four major determinants of health
 - Environment
 - Behavior
 - Heredity
 - Health-care services



Behaviors (lifestyle)

- Behaviors are individual responses or reactions to internal stimuli and external conditions
- Personal choices and the social and physical environment surrounding individuals can shape behaviors. The social and physical environment include all factors that affect the life of individuals, positively or negatively, many of which may not be under their immediate or direct control

Physical Activity (PA)

- PA is any bodily movement produced by skeletal muscles and resulting in energy expenditure
- The most important components of overall energy expenditure include basal metabolic rate, PA, and the thermic effect of blood. Basal metabolic rate accounts for the largest portion of daily energy expenditure. PA is clearly the most variable component of total daily energy expenditure

Physical Activity (PA)

Regular physical activity throughout life is important for maintaining a health body, enhancing psychological well-being, and preventing premature death

Effects of PA on Health and Disease

- Overall mortality Cardiovascular diseases
- Cancer
- Non-insulin-dependent diabetes mellitus
- Osteoarthritis
- Osteoporosis
- Falling
- Obesity
- Mental health
- Health-related quality of life

Current Situation: Sedentary Living

- Technology-based reduction in habitual PA
- PA has become a recreational option rather a survival necessity
- Workplace energy provided by human muscles reduced from 1/3 in 1850' to less than 1% in 1980'
- < 50% of American adults exercise regularly once a week</p>
- 50% of Australian men and 2/3 of women aged 25-64 rarely or never engaged in exercise

按年齡及職業組別分析年齡 15 歲至 64 歲缺乏體能活動的人士

年齡組別	比率*
15-24	32.8%
25-34	37.9%
35-44	35.5%
45-54	31.7%
55-64	25.6%

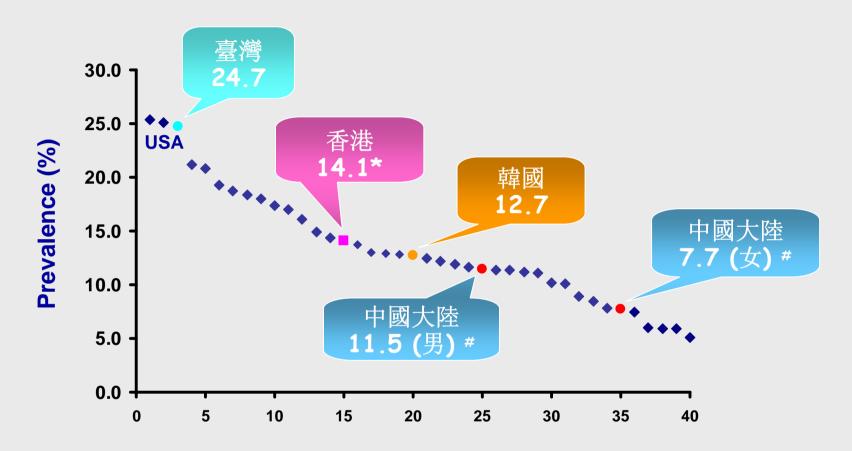
職業	比率 [•]
經理及行政級人員	36.2%
専業人員/輔助専業人員	37.5%
文員	42.8%
服務工作及商店銷售人員	31.0%
工藝及有關人員	31.2%
機台及機器操作員及裝配員	30.3%
非技術工人	32.0%
漁農業熟練工人	#
非從事經濟活動人士 [†]	28.9%

註: * 在有關年齡組別或職業組別內所佔的比率。 † 非從事經濟活動人士包括料理家務者、全日制學生及退休 人士。 # 由於樣本數目少,以致抽樣誤差大,有關統計數字不予公佈。

缺乏體能活動人士的計算及定義是根據 "Guidelines for Data Processing and Analysis of the International Physical Activity Questionnaire (IPAQ) - Short Form (Version 2.0 April 2004)"。

資料來源: 衞生署二零零三至二零零四年人口住戶健康調查 (臨時數字)。

38個國家和地區超重兒童的比例



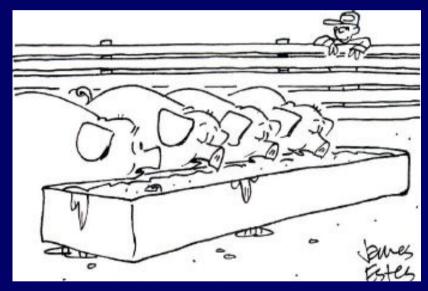
- * 正視肥胖問題: 肥胖的成因、現況與預防措施. 衛生署. 衛生防護中心. 2005
- # 2002年學生體質健康監測報告. 中國教育部

Janssen et al, 2005; Kim et al, 2005; Chu 2005

體力活動水平的減少和飲食習慣的改變是引發肥胖的重要因素(Kimm et al, 2005; Biddle et al, 2004)

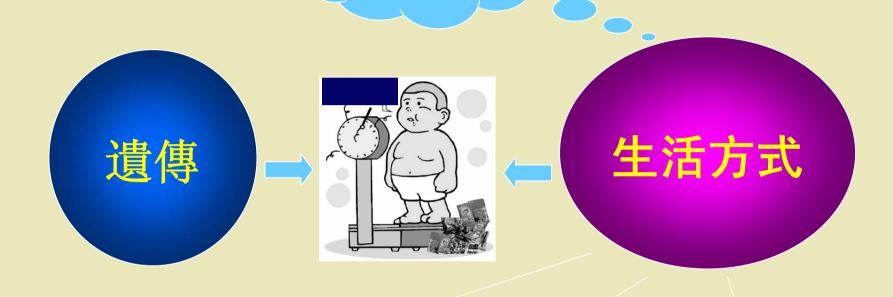


"This is so cool! It almost feels like we're actually playing outside!"



"Rich, heavy food and no exercise — doesn't he realize we're all just gonna get FAT?"





體力活動水平

飲食結構

環境

Research in Physical Activity (PA)

Increased interest in the study of the health benefits of regular PA over the past 40 years



Surgeon General's Report (CDC, 1996) as a blueprint document for global research in health and PA

Physical **Activity** and Health

> A Report of the Surgeon General **Executive Summary**







運動活動與時間之關係

體力活動 洗車和打蠟	運動時間 45 - 60分鐘	體力活動量較低,
洗車和打蠟 洗窗和抹地 園耕工作 步行 1哩(20分鐘/哩) 射籃 踏單車5哩 步行2哩(15分鐘/哩) 來回游泳 籃球比賽 踏單車4哩 跳繩 跑步1哩(10分鐘/哩)	45 - 60分鐘 45 - 60分鐘 30 - 45分鐘 35分鐘 30分鐘 30分鐘 20分鐘 15 - 20分鐘 15分鐘 15分鐘	體力活動量較低,時間相應增加
	15分鐘	體力活動量較高, 時間可相應減少

註: American College of Sports Medicine (2001) Dose-Response Issues Concerning Physical Activity and Health: An Evidence-Based Symposium, Medicine and Science in Sports and Exercise, Vol. 33, No. 6.

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(UK Department of Health, 2004)

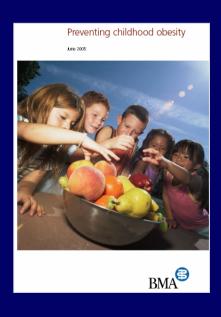
		はでして また い My (OK Deb	artificint of Heartif, 2004)
分級	特徵	典型生活方式	健康益處
1	不活躍 Inactive	通常架车返工或乘坐公众交通工具 工作性质以静态为主 很少的家务和园艺劳动 沒有休闲体力活动	无
2	輕微活躍 Lightly active	有下列一种或几种习惯: 有时以步行或踩单车作为交通工具 工作性质包括部分步行、搬运等 有部分不吃力的家务或园艺劳动 参加一些轻度的休闲体力活动	对慢性疾病有一定的保护作 用,可看做是通往理想水平 的起始阶段
3	中度活躍 Moderately active (推薦水平)	有下列一种或几种习惯: 經常以步行或踩单车作为交通工具 工作性质经常包括部分步行、搬运等 经常性的家务或园艺劳动 经常参加中等强度的休闲体力活动	对慢性疾病的保护性作用 高;发生运动损伤和其他副 作用的几率小
4	非常活躍 Very active	有下列多种习惯: 经常以步行或踩单车作为交通工具 非常活跃的工作性质,如园艺工人等 经常性的家务或园艺劳动 经常参加高强度的休闲体力活动	对慢性疾病的保护作用最 高,运动损伤或其他副作用 几率轻微增加
5	高度活躍 Highly active	经常进行高强度运动或体能训练, 通常以参加竞技体育为目的	对慢性疾病的保护作用最 高,运动损伤或其他副作用 几率增加

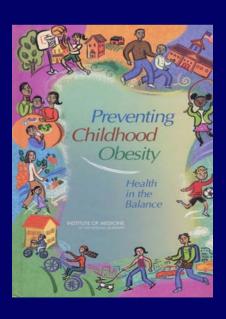
日常生活中不同強度體力活動舉例

體力活動舉例	強度	METs	能量消耗(千卡) (以60公斤体重的成年人作30分钟运动计算)
熨衣物	轻度	2.3	69
家居清洁	轻度	2.5	75
散步(闲逛)-2英里每小時	轻度	2.5	75
油漆/粉刷工作	中度	3.0	90
散步-3英里每小時	中度	3.3	99
吸尘打扫	中度	3.5	105
高尔夫	中度	4.3	129
乒乓球-业余	中度	4.5	135
网球-双打	中度	5.0	150
步行-中速, 4英里每小時	中度	5.0	150
割草-使用除草机	中度	5.5	165
踏单车-10-12英里每小時	中度	6.0	180
有氧操	剧烈	6.5	195
踏单车-12-14英里每小時	剧烈	8.0	240
游泳-慢游,每分钟50码	剧烈	8.0	240
网球-单打	剧烈	8.0	240
跑步-6英里每小時	剧烈	10.0	300
跑步-7英里每小時	剧烈	11.5	345
跑步-8英里每小時	剧烈	13.5	405

Research in Physical Activity (PA)

 Physical inactivity has been identified as possibly one of the controllable risk factors (WHO 2002; UK Department of Health, 2004; Institute of Medicine, 2005; Booth et al., 2002)



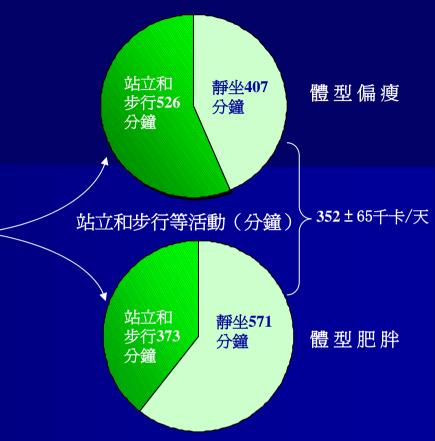


At least five a week

Evidence on the impact of physical activity and its relationship to health

A report from the Chief Medical Officer





人體每日需要消耗的能量可以分爲三部分:基礎代謝(占50-70%)、食物生熱作用(占10%)和體力活動所需能量(占20-40%)之和。其中體力活動包括有計劃的運動鍛煉和非體育運動能量消耗(NEAT)。2005年「科學」雜誌上發表的研究指出生活行爲習性與體重有關聯。研究人員用特殊裝備記錄志願者在日常活動中消耗的能量,發現如果較肥胖的志願者比較瘦的志願者每日少坐164分鐘就能夠多消耗352±65千卡的能量(相當於一個杯面所含有的熱量)。倘若持久地將生活運動化,亦能夠燃燒脂肪控制體重的增加。

[資料來源: Science, 2005 (307): 584-586.]

Level and Strength of Evidence for a Relationship Between PA and Chronic Conditions

	Preventive effects			Therapeutic effects	
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Condition	Level of evidence ^{II}	Strength of effect	Evidence of a dose response relationship	Level of evidence	Strength of effect
Cardiovascular disease Coronary heart disease	High	Strong	Yes	Medium	Moderate
Stroke – occlusive – haemorrhagic	High Medium	Moderate Weak	_	Low Low	Weak Weak
Peripheral wascular disease	No data/ Insufficient data	-	_	Medium	Moderate
Obesity and overweight	Medium	Moderate§	_	Medium	Moderate§
Type 2 diabetes	High	Strong	Yes	Medium	Weak
Musculoskeletal disorders Osteoporosis ⁱⁱ	High	Strong	_	Medium	Weak
Osteoarthritis	No data/ Insufficient data	-	_	Medium	Moderate
Low back pain	Medium	Weak	-	High	Moderate
Psychological well-being and mental illness Clinical depression	Low	Weak		Medium	Moderate
Other mental liness	No data/ Insufficient data	TVESIR.	_	Low	Weak
Mental well-being	_	_	_	Medium	Moderate
Mental function	Low	Moderate	_	Low	Weak
Social well-being	No data/ Insufficient data	-	-	Low	Weak
Cancer					
Overall Colon	Medium	Moderate	Yes Yes	No data/	
Rectal	High Medium	Strong No effect			
Breast.	High	Moderate	Yes		
Lung	Low	Moderate	100) insufficient	-
Prostate	Medium	Equivocal	_	data ^{ll}	
Endometrial	Low	Weak	Yes		
Others	Low	Equivocal	_]	

Aerobic Exercise in Obese Women

A Randomized Trial

Thomas A. Wadden, PhD

Susan J. Bartlett, PhD Babette Zemel, PhD

Tony I. Verde, PhD

Shawn C. Franckowiak

BESTTY IS A CERTAMIC AND ommon health problem The most recent National Health and Nutrition Examination Survey (NHANES III) reported that 33.4% of Americans are overweight, representing an increase from the 25% prevalence observed in the 1976-1980 survey

Although it is commonly believed that easy access to high-fat foods and overeating are the simple causes of obesity, mean energy intake and fat consumption in industrialized countries have declined substantially as obesity rates have escalated.24 During this time, levels of physiport by the surgeon general3 indicates that only 22% of US adults are currently ac- women. tive enough to derive the health benefits JAMA 1999;287:335-340 conferred by physical activity. These findings have prompted public health advi- in which sedentary adults incorporate sors to recommend that all Americans short houts of moderate-intensity activstrive to accumulate 30 minutes or more ity into their daily routines, such as inof moderate-intensity physical activity on

a lifestyle approach to physical activity: See also pp 327 and 375 and Patient Page.

Context Physical inactivity contributes to weight gain, but only 22% of Americans

Objective To examine short- and long-term changes in weight, body composition and cardiovascular risk profiles produced by diet combined with either structured aerobic exercise or moderate-intensity lifestyle activity.

Design Sixteen-week randomized controlled trial with 1-year follow-up, conducted from August 1995 to December 1996.

Participants and Setting Forty obese w kilograms divided by the square of height in kg) with a mean age of 42.9 years (range, weight management program.

Interventions Structured aerobic exercise of about 1200 kral/d

Main Outcome Measures Changes in vascular risk profiles, and physical fitness at Results Mean (SD) weight losses during 8.3 (3.8) kg for the aerobic group and 7. groups, P<.001; between groups, P = .08) fat-free mass (0.5 [1.3] kg) than the lifesty the 1-year follow-up, the aerobic group n group regained 0.08 (4.6) kg. At week 16. lesterol levels were reduced significantly 10.1% reductions, respectively) but did no were not different from baseline or betwee

cal activity have steadily declined and a re- Conclusions A program of diet plus lifest

creasing the amount of walking in the most, or preferably all, days of the week.6 daily routine, performing more yard work, Blair and colleagues have described and using the stairs when possible

The purpose of this investigation was to examine short- and long-term changes in weight hady composition and cardiovascular risk profiles produced by diet @1999 American Medical Association. All rights reserved

A Community-Based Group Exercise **Program for Persons with Chronic Stroke**

JANICE J. ENG12, KELLY S. CHU12, C. MARIA KIM12, ANDREW S. DAWSON3, ANNE CARSWELL12, and

School of Rehabilitation Sciences, University of RC, Vancouver, RC, CANADA: and Rehabilitation Research Laborator and Acquired Brain Injury Program, GF Strong Rehab Centre, Vancouver, BC, CANADA

ABSTRACT

ENG. LL K. S. CHU, C. M. KIM, A. S. DAWSON, A. CARSWELL, and K. E. HEPBURN, A Community-Based Group Exercise Program for Persons with Chronic Stroke. Med. Sci. Sports Exerc., Vol. 35, No. 8, pp. 1271-1278, 2003. Purpose: The purpose of this study was to evaluate the physical and psychosocial effects of an 8-wk community-based functional exercise program in a group of individuals with chronic stroke. Methods: Twenty-five subjects (mean age 63 yr) participated in a repeated measures design that evaluated the subjects with two baseline assessments I month anoth one postintervention assessment and one retention assessment onth postintervention. Physical outcome measures assessed were the Berg Balance Test, 12-Minute Walk Test distance, gait speed and stair climbing speed. Psychosocial measures assessed were the Reintegration to Normal Living Index (RNL) and Canadia occupational Performance Measure (COPM). The 8-wk training consisted of a 60-min, 3× wk⁻¹ group program that focused or balance, mobility, functional strength, and functional capacity. The program was designed to be accessible by reducing the need for stly one-on-one supervision, specialized settings, and expensive equipment. Results: Improvements from the exercise program were found for all physical measures and these effects were retained 1-month postintervention. Subjects with lower function improved the nost relative to their initial physical status. Significant effects were found for the COPM, but not the RNL Index; however, subject with lower RNL improved the most relative to their initial RNL Score. Conclusion: A short-term community-based exercise reporter an improve and retain mobility, functional capacity, and balance and result in a demonstrable impact upon the performance of ac and abilities that were considered meaningful to the subjects, Implementation of such community-based programs has potential for improving activity tolerance and reducing the risk for secondary complications common to stroke (e.g., falls resulting in fractures and cardiac events). Key Words: CEREBROVASCULAR ACCIDENT, PHYSICAL ACTIVITY, DISABILITY, FUNCTION, WALK

ver 50,000 Canadians suffer from stroke each year. making it the number one cause of neurological disability in Canada today (22) and a leading cause of disability in the community (18). Ninety percent of stroke survivors have some functional disability, with mobility being the major impairment (20). Although some individu als with stroke will have received some rehabilitation during the acute and subacute phase, rarely does rehabilitation extend beyond 1 yr postinjury due to the belief that functional recovery has plateaued by this time (41). Impairments resulting from stroke, such as muscle weakness, pain, spasticity, and poor balance, in addition to the lack of accessible and appropriate community-based exercise programs, can lead to reduced tolerance to activity, further sedentary lifestyle, and additional declines in function and disability

Address for correspondence: Janice Eng. School of Rehabilitation Sciences, University of BC, T325-2211 Wesbrook Mall, Vancouver, BC, Canada, V6T 2B5; E-mail: janicoc@interchange.ubc.ca. Submitted for publication December 2001. Accepted for publication March 2003.

MEDICINE & SCIENCE IN SPORTS & EXERCISE® Convright © 2003 by the American College of Sports Medicine DOI: 10.1249/01 MSS 0000079079 58477 0B

Activities that promote mobility and fitness are imper tive for the prevention of further pathological events (e.s. falls resulting in fracture, recurrent strokes, or cardi 通讯作者: 及學學 anal: huaai@public.fhnet.cn.net events). Stroke is one of the ton risk factors for incurring fractures as a result of a fall in older adults; Kanis et al. (23) analyzed 16.3 million hospitalizations due to fractures and reported a sevenfold hin fracture risk for individuals with stroke. In fact, the incidence of falls has been reported to be as high as 73% of individuals with stroke falling within 6 months after hospital discharge to home with an average of 3.4 falls per person during this 6-month time period (17). In addition, cardiovascular disease is the leading prospective cause of death in chronic stroke. Inactivity and low cardiovascular fitness, a major occurrence in persons with stroke, is one of the modifiable risk factors associated with cardio-

In the past, intensive training in persons with stroke has been controversial due to the belief that strenuous activity would increase spasticity and reinforce abnormal movement (5). However, recent evaluation of intensive exercise programs has not found any evidence of an increase in spas-

Intensive treadmill protocols (29,33,36) are a recent addition to stroke rehabilitation and have resulted in improvements in gait and aerobic capacity; however, Smith et al. (37) found no significant improvements in reactive balance using an endurance treadmill protocol and suggested that

有组织、半封闭形式社区减肥活动的效果评价

艾华1 梁條国2 阮伟3 赵磊4 1 北京大学第三医院运动医学研究所(北京 100083) 2.北京师范大学体育与运动学院 3.中央电视台体育中心 4.北京宝迪沃健身中心

摘要 通过分析一次有组织、半封闭形式的社区减肥活动, 观察减肥效果, 探讨适宜的减肥目 标、读度和特纯时间, 适宜的能量摄入量, 适宜的运动强度和运动量, 提出建设性意见。结果显示。 有组织、半封闭的减肥活动是一种有效的社区减肥形式,对无法通过自我行动实施减肥的人尤为合 适,设立的减肥目标以体重指数(BMI)减少10%左右为宜,年龄较轻者和体重过大者,减肥速度可 大于1~3kg/月;减肥特续时间以1个月左右为官,能量摄入量可控制在1600kcal/d(男)或 1300keal/d(女)以内,运动强度中等(最大运动心率的50%~70%),运动量达到中等活动水平,减肥 活动应在有关专家指导监督下进行,避免运动性损伤和其它医学问题,可适量补充复合维生素和矿 物质,必要时可使用一些减缓饥饿感的药物。

关键词 减体重,能量摄入,运动强度,体力活动水平

Evaluation of the Outcome of an Organized Semi - Closed Program for Weight Reduction in Community

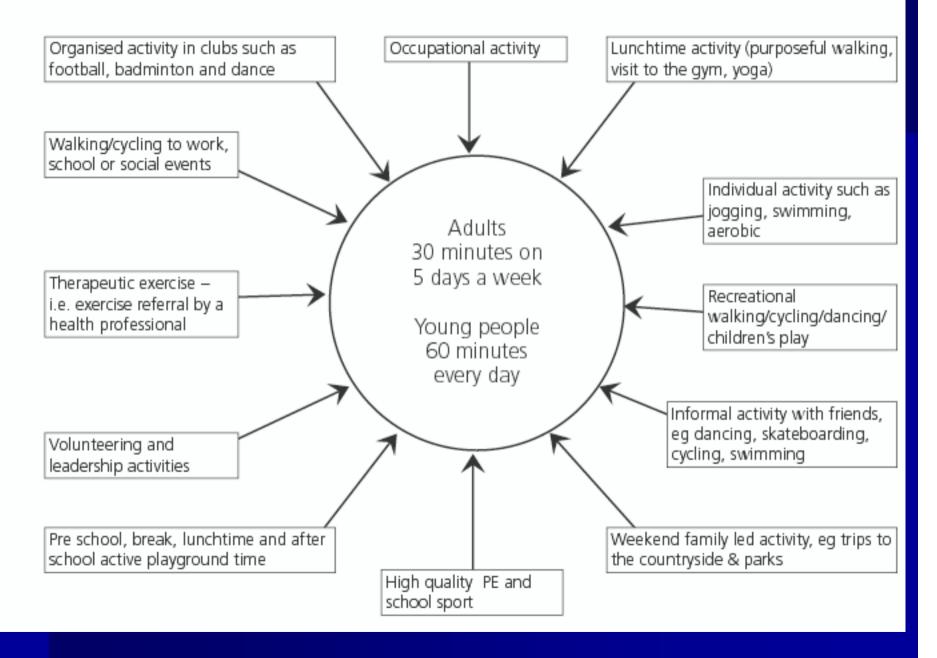
Ai Hua1 + Liang Huanguo2 + Ruan Wei3 and Zhao Lei4 1 Institute of Sports Medicine 3rd Hospital Peking University Beijing 100083 China 2 College of Physical Education and Sports, Beijing Normal University, Beijing 100875, China 3 Sports Center, China Central Television, Beijing 100859, China 4 Beijing Body Works Sports Center + Beijing 100035 + China

Abstract The purpose of the present study is to evaluate the outcome of an organized, semi - closed grogram for weight reduction in community, and to provide the helpful suggestions for the reasonable goal, rateduration, energy intake, exercise intensity and amount for weight - reduction program. The results showed that the organized semi - closed program for weight reduction in community is effective and especially suitable for one who are unable to control body weight by themselves. Reducing 10% of body mass index (BMI) is reasonable target in the program. The rate of 1 ~ 3kg per month for reducing weight is acceptable for the young obese adults with severely overweight. The recommendation for the program duration is about one month. It is better to keep dietary energy intake under 1600 kcal/d for man and 1300 kcal/d for woman. It is appropriate to take moderate exercise intensity within 50 ~ 70% of maximal heart rate and moderate exercise amount. The weight - reducing program should be supervised under experts or specialists to avoid any exercise - induced injuries and other medical problems. The supplementation of complex of vitamins and minerals is recommended during the period of weight reduction. Certain medicines for inhibiting the sense of hunger can be used if necessary.

Key words weight reduction, energy intake, exercise intensity, physical activity level

我国的超重和肥胖人群呈逐年上升的趋势, 肥 石、脂肪肝、某些癌症等疾患关系密切, 肥胖病已成 胖与心脑血管疾病、糖尿病、高血压、高血脂、胆结 为严重的公共卫生问题[1-4]。随着公众对招重和肥

The Activity Menu for Adults and Children



PA Recommendation for Children

(Department of health and aging, Australia, 2005)

- Children need at least 60 minutes (and up to several hours)
 of moderate to vigorous physical activity every day.
- Children should not spend more than two hours a day using electronic media for entertainment (e.g. computer games, TV, internet), particularly during daylight hours.



Active and healthy.

Did how to be active, helpe physical activity a part of their duly returns not only fine, that also leadily.

Ply stall activity in reported for healthy growth and development. It also a speake yet, but he made friends and leave physical and social with.

Tomousing it leak to active when finy any young also establishes a scatter that could stay with them throughout that I (a...

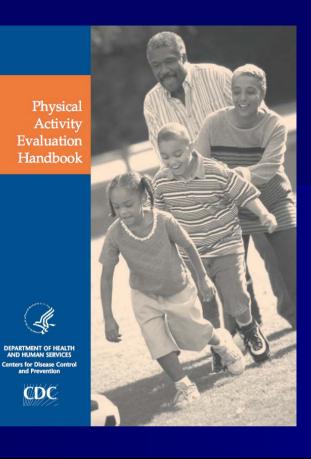
If you are a parent or carer of a young child, the two p to remember are:

- Children used at least 60 minutes (and up to sweral hours) of moderate to vigorous physical activity every day.
- Children should not spend more than two hours a day using electronic media for entertainment (e.g. computer games, TV, Internet), particularly during daylight house.
- Children between 5 and sayears of age greatly benefit for being physically active. It can:
- * From the healthy growth and development and strong boses and muscles.
- Baild strong boses and muscles.
 Improve balance and develop shills.
 Maintain and develop flex is fity.
- * Maintain and day slop flex to fifty.

 * Help achieve and maintain a healthy watch
- * Improve cardiovascular fr
- * Help relaxation.

 * Improve porture.
- * Provide opportunities to make friend
- * Improve self-esteem

How much is enough?
Not need to do a minimum of to minutes of physical actives yeary day. Min remember, more in better — even up to several bound this can be built up throughout for day with contribution of neckets to story are published.



activities taught or modifying the rules of the game so that students are more

active.

CDC

The Effectiveness of Interventions to Increase Physical Activity

A Systematic Review

Emily B. Kahn, PhD, MPH, Leigh T. Ramsey, PhD, Ross C. Brownson, PhD, Gregory W. Heath, DHSc, MPH, Elizabeth H. Howze, ScD, Kenneth E. Powell, MD, MPH, Elaine J. Stone, PhD, MPH, Mammy W. Rajah, MS, Phaedra Corso, PhD, and the Task Force on Community Preventive Services

The Guide to Community Preventive Service's methods for systematic reviews were used to The Guide to Community Presentius Servicés methods for systematic reviews were used to evaluate the effectiveness of various approaches to increasing physical activity: informational, behavioral and social, and environmental and policy approaches. Changes in physical activity behavior and aerobic capacity were used to assess effectiveness. Two informational interventions ("point-of-decision" prompts to encourage stair use and community-wide campaigns) were effective, as were three behavioral and social interventions (school-based physical education, social support in community settings, and individually adapted health behavior change) and one environmental and policy intervention uallyadapted health behavior change) and one environmental and policy intervention (creation of or enhanced access to places for physical activity combined with informational outreach activities). Additional information about applicability, other effects, and barriers in implementation are provided for these interventions. Education focused on information provision, and family-based social support (because of inconsistent findings); mass media campaigns and college-based health education and physical education (because of an insufficient number of studies); and classroom-based health education focused on reducing television viewing and video game playing (because of innufficient evidence of an increase in physical activity). These recommendations should serve the needs of researchers, planners, and other public health decision makers.

Medical Subject Headings (MeSH): exercise, leisure activities, physical fitness, physical endurance, decision making, evidence-based medicine, economics, preventive health services, public health practice, meta-analysis, review literature (Am J Prev Med 2002;22(4S):73–107)

Regular physical activity is associated with enhanced health and reduced risk of all-cause mortality. 1-4 Beyond the effects on mortality,

From the Dickion of Presention Research and Analytic Methods, Epidemology Program Offices (India, Rames), Rada, Canoda Dickion Region of Region (Proceedings), Program Offices (India, Rames), Rada, Canoda Tibrica (Carolia) and Projectal Articlys, National Carnet for Chronic Disease Prevention and Health Promotion, Centres for Disease Control and Prevention (Health, Adams, Georgia for Early Force on Public Health (Bowerson), St. Louis, Missouri, Dission of Health Chanation and Promotion, Agency for Toxic Substances and Disease Regions (Bower), Adams, Georgia Epidemiology and Prevention Branch, Georgia Department of Health Research (Prof.), Adams, Georgia Epidemiology and Prevention Branch, Congola Department of Health Research (Prof.), Adams, Louis Disease, Navigued Lucituses of Health (Store), Betheeld, Mayland Lucituses of Health (Store), Betheeld, Mayland Lucituses of Health (Store), Betheeld, Mayland Performance and Development, University of New Mexico, Alboquer Theorem and Caroline Caroline (Prof.) and Caroline Caroline (Prof.) and Prof. (Prof.) and Prof

que, New Mexico.
The names and affillations of the Task Force members are listed in the front of this supplement and at west-the-communityguide originates and the supplement and the work of the supplement of the Modern of the

physical activity has many health benefits, including reduced risk of cardiovascular disease. 5.6 ischemic reduced risk of cardiovascular disease,"" ischemic stroke, "\(^{20}\) non-insulin-dependent (type 2) diabe-tes, \(^{10-16}\) erolon cancers, \(^{17-20}\) osteoporrosis, \(^{21-20}\) depres-sion,\(^{24-27}\) and fall-related injuries.\(^{25-33}\) Despite the ben-elits of regular physical activity, only \(^{25}\)% of adults in the United States report engaging in the recommended amounts of physical activity (i.e., 30 minutes of moderate-intensity activity on 5 or more days per week, or 20 minutes of vigorous-intensity activity on 3 or more days per week) ⁵²; 29% report no leisure-time regular physi-cal activity ⁵³; and only 27% of students (grades 9 through 12) engage in moderate-intensity physical ac-tivity (30 minutes, 5 or more days per week). 32

In Healthy People 2010,32 physical activity is ranked as a leading health indicator. Healthy People 2010 has developed goals to improve levels of physical activity among adults, adolescents, and children and to reduce sedentary behavior among adolescents (Table 1).

Recommendations to increase physical activity have been made for individuals and clinical settings but not for community settings. Increased physical activity has

Am I Prev Med 2002;22(4S)

0749-3797/02/\$-see front matter 73 PH S0749-3797(02)00434-8

Task Force Indicators Measured in Intervention Intervention Description Recommendation Reviewed Studies for Use Behavioral and Social Approaches (continued) School-based Strongly Minutes per week spent in Modified curricula and policies to moderate to vigorous physical physical education recommended. increase the amount of moderate or (PE) activity (MVPA). vigorous activity, the amount of time spent in PE class, or the amount of Percentage of class time spent in time students are active during PE class. MVPA. Interventions included changing the Estimated energy expenditure.









2005 BASES Annual Conference Loughborough University 4th-7th September 2005 Promoting Excellence in Sport and Physical Activity for Health

















Supplement to: Journal of Science and Medicine in Spor

2005 Australian Conference of Science and Medicine in Sport

Fifth National Physical Activity
Conference

Fourth National Sports Injury Prevention Conference

Promoting innovation strangering

Program & Abstracts

13-16 October 2005
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Volume 8 (saue 4 December 2005 Supplement



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Epidemiology, Biostatistics and Health Promotion disease prevention

health promotion epidemiology of injury and illness assessment of physical activity (population-based) intervention strategies including educational materials biostatistics

- Metabolism and Nutrition
- Psychology, Behavior, and Neurobiology
- Environmental and Occupational Physiology
- Immunology/Genetics/Endocrinology
- Athlete Care and Clinical Medicine
- Clinical Exercise Physiology
- Clinical Case Abstract Categories

International Conference on Physical Activity & Obesity in Children Science · Policy · Practice June 24-27 Toronto, Canada



PROGRAM HIGHLIGHTS:

- A Worldwide Perspective on Obesity in Children
- The Causes of the Obesity Epidemic in Children
- Are children/youth more/less active than previous generations?
- Is physical inactivity contributing to obesity in children and youth?
- What are the practical implications of the physical activity deficit?
- What are the public policy and public health implications of the physical activity deficit?
- Are there successful, innovative community-based physical activity interventions?

Research Focus

• Mechanisms and relationship on health & PA

• Surveillance (link to 2 MMMR docutments)

- PA assessment
- Dosage of PA
- PA promotion on youth and elderly
- School-based PA promotion
- Occupational PA promotion





