

108學年度健康促進學校輔導計畫

學校推動健康體位素養導向策略

謝榮鴻教授

臺北醫學大學 2020/1/6



健康密碼

- 8 睡足8小時
- 5 天天5蔬果
- 2 螢幕注視少於2
- 1 天天運動1小時
- 0 0 含糖飲料















即入星期	星期一	星期二	星期三	星期四	星期五
導師時間 07:55-08:35	為	英	綜合	Blue	便
第一節 08:40-09:20	數	英	國	國	自
第二節 09:30-10:10	數	本土語	數	國	自
第三節 10:30-11:10	雕	自	音樂	英	視覺
第四節 11:20-12:00	國	自	表演	英	社
	4	餐(12:00~12	:35) / 靜息	時間(12:35~1	3:15)
第五節	社	綜合		健	數
第六節 14:10-14:50	社	綜合		體	資訊
第七節 5:10-15:50	書法/閱讀	國		數	國

22:00 -- 06:00 睡眠

06:30 -- 07:00 陸訓

07:10 -- 08:00 泳訓

08:40 -- 12:00 上課

12:00 -- 12:35 午餐

12:35 -- 13:15 静息時間

13:20 -- 15:50 上課

16:00 -- 18:00 返家/社團/課輔班

18:00 -- 19:30 晚餐

19:30 -- 21:30 功課/家庭時間

21:30 -- 22:00 準備就寢







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意力醫學大學 TAIPEI MEDICAL UNIVERSITY

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8 睡足8小時

睡得飽、精神好、表現好 睡飽才能長高 睡飽有精神,能記更多東西

如何才會睡得飽 我願意睡前不做太過激烈的活動 我願意每天睡滿8小時 我會每天9點以前上床睡覺 睡前不看電視、打電腦、玩電動





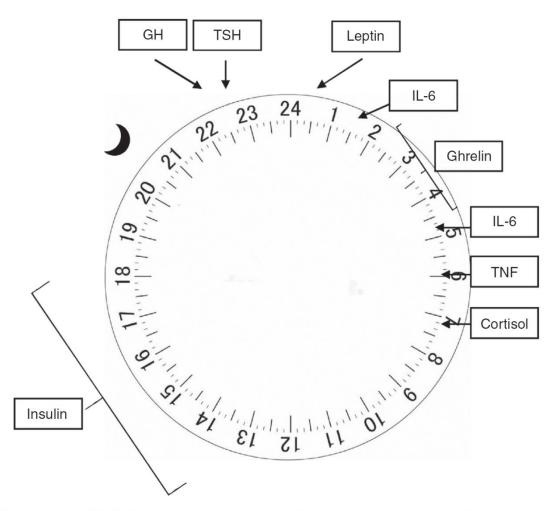
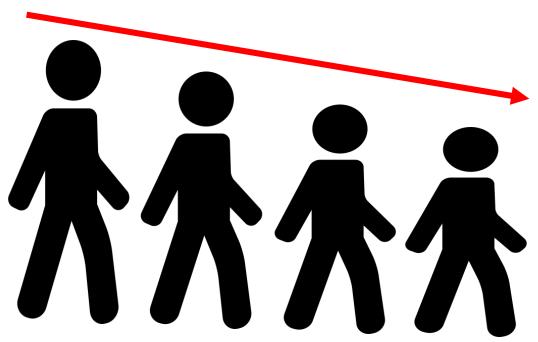


Figure 2 Physiological circadian distribution of hormones and inflammatory factors, considering a hypothetical time of sleep onset at 9 PM (). IL-6, interleukin-6; TNF, tumor necrosis factor.



台灣孩童成長趨緩

國小孩童平均身高連續四年出現負成長







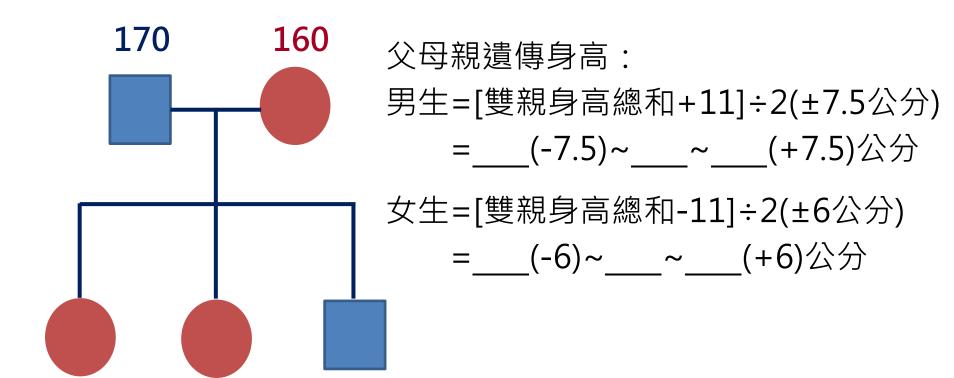
日本孩童長得比較好!!!!!

近十年

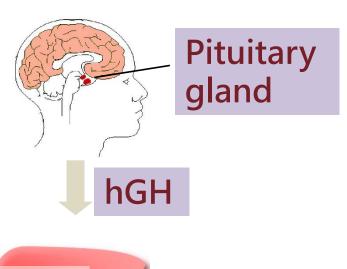
日本11~13歲男童比我國男童高







159.5 (153.5-165.5)170.5 (163-178)





Nutrients



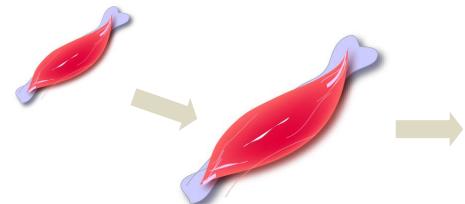








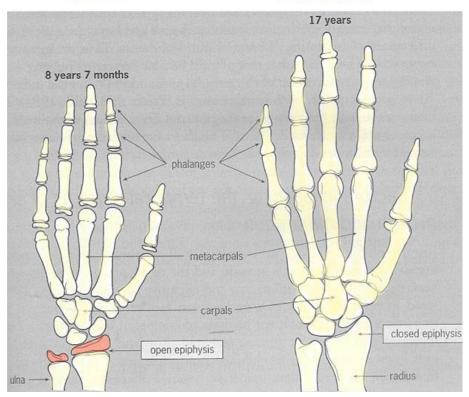


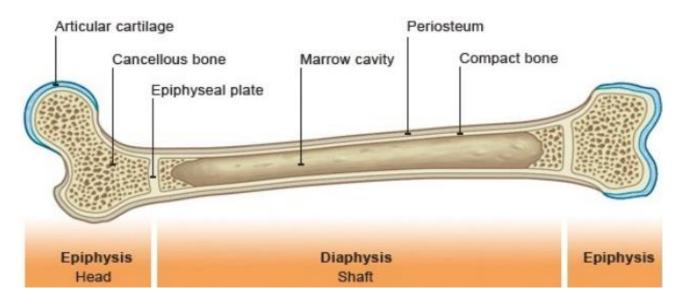


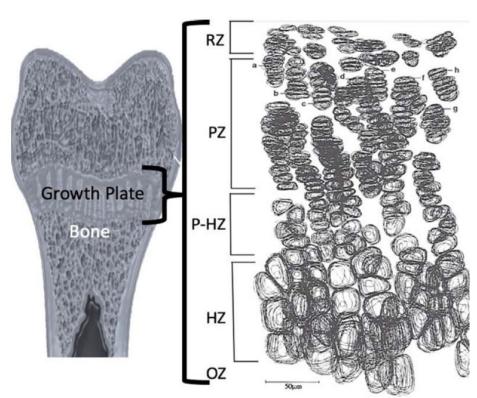
Juvenile growth

OPEN

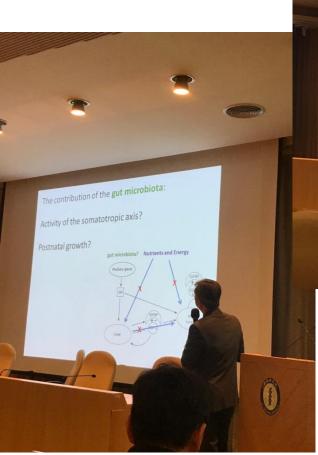
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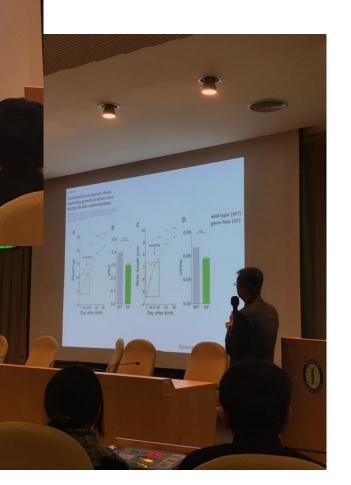












日本孩童長得比較好!!!!! 近十年 日本11~13歲男童比我國男童高

13:34





5 天天5蔬果

聰明吃

每天要吃滿**5**蔬果 吃油炸及含糖食物飲料不好 我願意吃水果來替代喝果汁 我願意把蛋糕甜點換成蔬菜水果

餐餐蔬菜吃光光

我會把每餐的蔬菜吃光 我會天天吃蔬菜





















2 螢幕注視少於2

聰明使用3C產品

長時間用電腦跟手機對身體不好 長時間注視螢幕對眼睛不好

看手機與運動我願意選擇運動 我玩手機跟平板不超過30分鐘 我每天注視螢幕時間不超過2小時









1 天天運動1小時

天天運動1小時

天天運動對身體好 運動會使人心情變好 運動能讓我長高

我下課會選擇離開教室去活動 搭電梯跟走樓梯我會選擇走樓梯 早上起床先拉筋做伸展 我會找父母一起出門運動

















0 0 含糖飲料

充足飲用白開水

喝足開水對身體好 喝太多含糖飲料會變胖不健康

每節下課我會提醒自己喝開水 我會不喝含糖飲料 我願意嘗試選擇無糖優酪乳





Medical Uni

校園已普遍設立熱食部,但是否開放訂外食,各校規則大不同,例如建中,中午開放每班3位代表外出購買餐點,師大附中開放部分區域領外食,至於松山高中、育成高中禁止訂外食。



師大附中外送車一輛一輛駛入校園。記者張世杰 / 攝影

松山、育成高中禁訂外食

建中學務主任白萬應表示,之前班聯 美 議,中午時段學生領取外出證,就能去外 面購餐,所以從開學至今,校門口並未出





中午放飯,成功高中門口不再見到 家長的身影,到來的則是一輛輛的 粉紅熊貓。(攝影/趙世勳) 現場直擊》時代不同了!外送經濟夯 粉紅熊貓取代媽媽愛心便當

社會議題











Types of prevention	Target	Measures
General prevention (primary prevention)	Target group: General public Target: Counteracting the development of obesity	Creating awareness of obesity as an illness Establishing healthy surroundings (e.g. health- promoting school environments) Education and behavioral training in day care centers, schools and through mass media Improving physical activity opportunities in schools and communities Health orientation in politics (e.g. economic and agriculture policies) Removal of advertising in children's TV programming Cooperation of interest groups (e.g. food industries, health insurances, media and sport clubs)





Types of prevention	Target	Measures
Selective prevention (secondary prevention)	Target group: Potentially at-risk group of general public Target:	Early identification of and discussion with at-risk individuals through pediatricians and family doctors or physicians at public health offices Routine checkups for the purpose of offering and including in family-oriented training programs







% Health			
Types of prevention	Target	Measures	
Targeted prevention (tertiary prevention)	Target group: Overweight children and adolescents with high health risks or already obese Target: Weight stabilization and improvement of comorbidities	Interdisciplinary programs and measures (see recommendations under primary and secondary prevention) Support through the above-mentioned measures for general obesity prevention as well as measures of general health promotion	





Types of prevention	Target	Measures
Behavior-oriented prevention	Personalized measures: Addressing individual behavior and habits	Education in nutrition Promotion of movement during school lessons as well as educational programs for enhancing physical activities
Community-/ environment-based prevention		Provision of facilities and equipment in the school environment (e.g. playgrounds, healthy school meals and snacks)



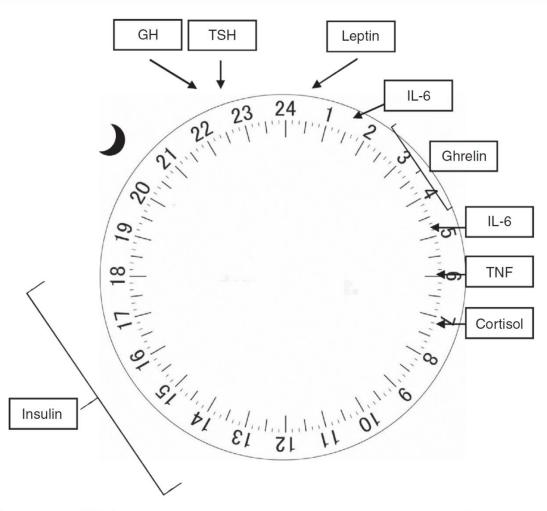


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Nutrition

- By age 1, meals should be taken seated with the family
- Introduction to new, healthy foods
- Positive mealtime conditions (e.g. positive atmosphere, no outside distractions: e.g. TV)
- Varied diet with plenty of beverages (water or unsweetened, sugar-free drinks)
- Ample plant-based foods (vegetables, fruit, potatoes, whole grain products)
- Limited animal derived products (milk and milk products, fish, eggs)
- Very limited added sugar and sweets
- Careful observation of the sugar content in food and drinks





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Physical activity

- For children 3–5 years: at least 60 min of structured physical activity daily
- ≥ 3 years: From 60 min to several hours of unstructured physical activity; limit inactivity to less than 60 minutes at a time, outside of sleep
- School age: a minimum of 60 min of moderate to intensive physical activity daily or at least 10,000 steps per day
- Adolescence: a minimum of 90 min of moderate to intense physical activity daily or at least 10,000 steps per day
- Acquisition of basic motor skills as the basis for future physical dexterity and activity
- Promoting access to indoor and outdoor exercise areas
- Education of parents and caregivers on the importance of physical activity





Physical activity and sports

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Recommendations for the prevention of obesity and overweight in infants and pre-school children



Media consumption

- No TV in children's bedrooms
- Limit access to media and in general reduction of leisure time spent sitting according to age:
- For children under 3 years: 0 min
- For children 3–6 years: 30 min maximum





Recommendations for the prevention of obesity and overweight in infants and pre-school children

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Primary prevention

Primary prevention aims to prevent disease or injury before it ever occurs. This is done by preventing exposures to hazards that cause disease or injury, altering unhealthy or unsafe behaviours that can lead to disease or injury, and increasing resistance to disease or injury should exposure occur. Examples include:

- legislation and enforcement to ban or control the use of hazardous products (e.g. asbestos) or to mandate safe and healthy practices (e.g. use of seatbelts and bike helmets)
- education about healthy and safe habits (e.g. eating well, exercising regularly, not smoking)
- immunization against infectious diseases.



Secondary prevention

Secondary prevention aims to reduce the impact of a disease or injury that has already occurred. This is done by detecting and treating disease or injury as soon as possible to halt or slow its progress, encouraging personal strategies to prevent reinjury or recurrence, and implementing programs to return people to their original health and function to prevent long-term problems. Examples include:

- regular exams and screening tests to detect disease in its earliest stages (e.g. mammograms to detect breast cancer)
- daily, low-dose aspirins and/or diet and exercise programs to prevent further heart attacks or strokes
- suitably modified work so injured or ill workers can return safely to their jobs.



Tertiary prevention

Tertiary prevention aims to soften the impact of an ongoing illness or injury that has lasting effects. This is done by helping people manage long-term, often-complex health problems and injuries (e.g. chronic diseases, permanent impairments) in order to improve as much as possible their ability to function, their quality of life and their life expectancy. Examples include:

- cardiac or stroke rehabilitation programs, chronic disease management programs (e.g. for diabetes, arthritis, depression, etc.)
- support groups that allow members to share strategies for living well
- vocational rehabilitation programs to retrain workers for new jobs when they
 have recovered as much as possible.

	Population	Strategies
Primary prevention General	Population-wide interventions that include youth of all body sizes or weight	Eating and physical-activity messages or programs intended to prevent incidence of overweight/obesity and/or provide a supportive environment for weight maintenance
Secondary prevention Selective	Overweight or obese youth with no weight-related comorbidities	More structured and involved eating and physical-activity programs intended to help overweight and obese youth obtain a healthy weight; may require medical approval or limited supervision
Tertiary prevention Targeted	Overweight or obese youth with comorbidities Severely obese youth	Intensive and comprehensive treatments for overweight and obese youth conducted under medical supervision with a focus on resolving weight-related comorbidities or at least decreasing their severity

^aNA=not applicable.



Effectiveness of nutrition-education and physical-activity interventions



1. In school-based programs, what is the effectiveness of nutrition education as a part of an intervention to treat childhood overweight?

<u>Conclusion statement:</u> There is insufficient evidence to draw conclusions about the effectiveness of school-based nutrition-education interventions alone to address adiposity in children.

Grade IIIa

2. In school-based programs, what is the effectiveness of altering physical-activity patterns as a part of an intervention to treat childhood overweight?

<u>Conclusion statement:</u> The use of school-based physical-activity interventions alone is unlikely to bring about improvement in measures of adiposity in school-aged children.

Grade I

3. In school-based programs, what is the effectiveness of combined nutrition-education and physical-activity interventions to address childhood overweight?

<u>Conclusion statement:</u> School-based interventions that combined both a physical-activity and a nutrition-education component were diverse, combining different types of interventions for different lengths of time.

Multicomponent school-based interventions that include at least physical-activity and nutrition-education interventions may be effective in improving adiposity measures, although results appear to be heavily dependent on a wide range of intervention design factors, population, and context.

Grade II

低年級營養教育教學延伸教材:

■ 教學目標:認識生鮮蔬果、均衡飲食觀念

■ 場域學習:找出指定食材、完成設計我的餐盤













↑我的餐盤分享





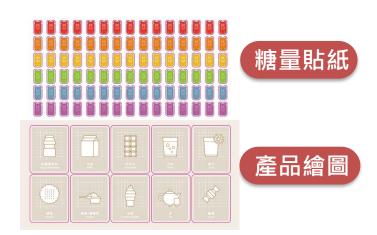
♠食材尋寶完成!→

中年級營養教育教學延伸教材:

■ 教學目標:認識營養標示、找出包裝食品含糖

■ 場域學習:閱讀包裝食品營養標示、計算含糖量







教材 L 夾

中年級營養教育教學延伸教材:

教學目標:認識營養標示、找出包裝食品含糖

場域學習:閱讀包裝食品營養標示、計算含糖量





觀察產品營養標示



↑ 協助學生含糖量計算

↑營養標示閱讀教學











紀錄產品及計算含糖量→



高年級營養教育教學延伸教材:

■ 教學目標:以均衡飲食設計食譜

■ 場域學習:採購食材、製備膳食





食譜卡





食鹽材料			採買量	烹飪量
	蛋餅皮	Burrito	1包	1張
	難蛋	Egg	1 盒	1類
	水煮觞魚	Tuna	1 32	3 湯匙
	小黃瓜	Cucumber	1 盒	1/4 根
	胡蘿蔔	Carrot	1 根	1/2 根
	起司片	Cheese	1包	1片
	橄欖油	Olive Oil	-	50 元大小
	雞巴	Salt	- 5	1 元大小
	黑胡椒	Pepper		1 元大小

熱量	全穀雜種類	豆魚蛋肉類	蔬菜類
500 kcal	2	2	1
	水果類	乳品類	油脂與 堅果種子類
	0	0.5	3







教材L夾



高年級營養教育教學延伸教材:

■ 教學目標:以均衡飲食設計食譜

■ 場域學習:採購食材、製備膳食 🖥





↑ 食材尋寶、採買 ✓



食材



| STATE | STAT



依照食譜卡 領取食材







食材洗切、烹調



義大利麵擺盤 作品名稱:醜不拉嘰花媽





Grocery store/ supermarket nutrition education

One activity that may facilitate the achievement of healthful dietary patterns is grocery shopping for healthy foods

Do grocery store tours lead to knowledge gains?

Do grocery store tours lead to behavior change?

What attributes of grocery store tours are associated with health-related outcomes being positively met?





Garden-based nutrition education

Garden-based nutrition education programs, which have been evaluated in school, afterschool, and larger community settings, are promising for increasing children's fruit and vegetable preferences and intakes

Gardening increased children's access to vegetables and reduced their reluctance to try new foods





Life skill behaviorally based nutrition education

Integrating educational messaging with environmental change to make healthy choices easier is essential, as is a focus on programs that teach food purchasing and preparation skills, as well as parenting practices regarding food and activity

The effectiveness of behaviorally based nutrition education across the age groups are needed to reinforce the importance of teaching our children food preparation skills, menu planning, food shopping, and food selection skills





Life skill behaviorally based nutrition education

These skills, previously taught in home economics courses, have largely been phased out of school curricula, and it is time to re-examine their importance as a necessary life skill

IOM recommendations for national nutrition-education curriculum standards for prekindergarten through 12th grade are forthcoming and will be important for promoting evidence based academic content and strategies in support of child health promotion and obesity prevention

