



PERIODIZATION FOR COMBAT SPORTS

重竞技领域的周期理论





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- Judo Head Coach at Shanghai Elite Sports Center 上海柔道队主教练
- Performance coach at Chinese Olympic Committee 奥组委备战办体能教练
- Judo Head Coach at University of Oviedo
- Strength & Conditioning coaches in diferent sports (judo, wrestling, football, tennis, volleyball,...) 不同项目的体能教练 (柔道、摔跤、足球、网球、)





CHINA AT THE OLYMPICS 中国在奥运会上

OLYMPIC MEDAL COUNT





OLYMPIC MEDAL COUNT






END OF DAY 16

**TOP
5**

GOLD

SILVER

BRONZE

		GOLD	SILVER	BRONZE
	USA	39	41	33
	CHINA	38	32	18
	JAPAN	27	14	17
	TEAM GB	22	21	22
	ROC	20	28	23

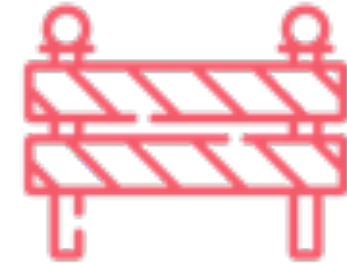


CHINA AT THE OLYMPICS 中国在奥运会上

China didnt win any medal until Los Angeles 1984 Olympic Games



SWOT ANALYSIS 态势分析



STRENGTHS

优势

What do you do well?
What unique resources can you draw on?
What do others see as your strengths?

WEAKNESSES

劣势

What could you improve?
Where do you have fewer resources than others?
What are others likely to see as weaknesses?

OPPORTUNITIES

机会

What opportunities are open to you?
What trends could you take advantage of?
How can you turn your strengths into opportunity.

THREATS

威胁

What threat can harm you?
What is your competitor doing?
What threats do your weaknesses require aspect to pay.



优势

STRENGTHS



What do you do well?
What unique resources
can you draw on?
What do others see as
your strengths?



STRENGTHS 优势

Discipline and sacrifice capacity of their athletes
运动员的高度自律和吃苦耐劳品质





STRENGTHS 优势

Talent selection: 1393 million people (2019) 运动员选材基数：超13亿人口





STRENGTHS 优势





STRENGTHS 优势





STRENGTHS 优势





STRENGTHS 优势





STRENGTHS 优势





STRENGTHS 优势

Good investment and support (facilities, human resources,... 政府大力帮扶和投资 (场馆、人力等)





STRENGTHS 优势



Full time athletes 运动员全职训练





STRENGTHS 优势

Reward system

成熟的绩效奖励制度





STRENGTHS 优势

Reward system

成熟的绩效奖励制度





STRENGTHS 优势



Many high performance training centers in China
很多高水平运动表现中心



High Performance Training Centers in Judo



Xinjiang, Mongolia Interior, Heilongjiang, Liaoning, Jilin, Beijing, Hebei, Tianjin, Henan, Shanxi, Shandong, Shaanxi, Jiangsu, Zhejiang, Shanghai, Fujian, Guangdong, Guangxi, Yunnan, Hunan, Hubei, Chongqing, Sichuan, Gansu, Anhui

新疆, 内蒙古, 黑龙江, 辽宁, 吉林, 北京, 河北, 天津, 河南, 山西, 山东, 陕西, 江苏, 浙江, 上海, 福建, 广东, 广西, 云南, 湖南, 湖北, 重庆, 四川, 甘肃,



STRENGTHS 优势

Good sport facilities and many technology
完善的训练场馆和科技设备





STRENGTHS 优势

Many staff 很多员工





STRENGTHS 优势

Many athletes 很多运动员





STRENGTHS 优势

Many athletes 很多运动员





STRENGTHS 优势

Many athletes 很多运动员





STRENGTHS 优势

Many athletes 很多运动员





劣势

WEAKNESSES



What could you improve?
Where do you have fewer
resources than others?
What are others likely to
see as weaknesses?



WEAKNESSES 劣势

Lack of motivation/passion 运动员缺乏训练动机和激情





WEAKNESSES 劣势

Lack of long term development model
长期规划不明确





WEAKNESSES 劣势

Long term development model 运动员长期发展模型



激发兴趣 基础 为训练学习 为训练训练 为比赛训练 为获胜训练 积极的生涯



Canada Long Term Athlete Development Model
加拿大运动员长期发展模型



WEAKNESSES 劣势

Long term development model

运动员长期发展模型





WEAKNESSES 劣势



Long term development model 运动员长期发展模型



FUN	L2T		T2T	T2C		T2W	
						U18	SENIOR
						National Centre and Carding	
				U16	Regional / National Center	Tactical / Physical / Technical Training	Tactical / Physical / Technical Training
				Provincial - Regional Center	Tactical / Physical / Technical Training		
			U14	Technical Development	Competition Specific Technical Development	Competition Specific Technical Development	Competition Specific Technical Refinement
		U12	Technical Development	Competition 8-10 x year	Competition 10-12 x year	Competition 10-16 x year	Competition 10-16 x year
	U10	Technical Development	Competition 6-8 x year	Coordination Speed Endurance	Speed Endurance, Strength	Speed Endurance, Strength, Power	Speed Endurance, Strength, Power
UB	Fundamentals	Intro to Competition 5 x year	Coordination and Speed	Intro to Tactical Training	Intro to Tactical Training	Tactical Training	Tactical and Technical Training 2 x week
Fundamentals	Coordination and Speed	Coordination and Speed	Intro to Mental Training	Mental Training	Mental Training	Mental Training	Mental Training 2 x week
Daily Physical Activity	Daily Physical Activity	Daily Physical Activity	Intro to Cross Training	Cross Training 3 x week	Cross Training 3 x week	Cross Training 3-4 x week	Energy System Training 2 x week Strength Training 3 x week
Judo or Any Other Sport	Judo 2 x week	Judo 2-3 x week	Judo 3 x week	Judo 4-5 x week	Judo 4-5 x week	Judo 6-10 x week	Randori Training 5 x week
Healthy Life Style	Healthy Life Style	Healthy Life Style	Healthy Life Style	Healthy Life Style	Healthy Life Style	Healthy Life Style	Healthy Life Style
FUNDamentals	L2T Learn to Train		T2T Train to Train		T2C Train to Compete		T2W Train to Win



WEAKNESSES 劣势

Not much competitions 比赛少





WEAKNESSES 劣势

Low international experience

整体国际比赛经验少





WEAKNESSES 劣势

Many injuries 伤病多





WEAKNESSES 劣势

Early retirement 退役早





WEAKNESSES 劣势

Athletes in track & field with more olympic medals

Paavo Nurmi (Fin) 1920, 1924, 1928	11 Gold, 3 Silver, 3 Bronze
Carl Lewis (EE.UU.) 1984, 1988, 1992, 1996	10 Gold, 6 Silver, 2 Bronze
Usain Bolt (Jamaica) 2008, 2012, 2016	8 Gold, 2 Silver, 1 Bronze
Ray Ewry (EE.UU.) 1900, 1904, 1908	7 Gold, 1 Silver, 1 Bronze
Alyson Felix (EE.UU.) 2004, 2008, 2012, 2016	6 Gold, 4 Silver, 2 Bronze
Vilho Riipola (Fin) 1924, 1928	5 Gold, 3 Silver, 1 Bronze
Evelyn Ashford (EE.UU.) 1984, 1988, 1992	5 Gold, 3 Silver, 1 Bronze
Hannes Kolehmainen (Fin) 1912, 1920	5 Gold, 2 Silver, 1 Bronze
Mel Stappard (EE.UU.) 1908, 1912	5 Gold, 1 Silver, 1 Bronze
Emil Zatopek (Checoslovaquia) 1948, 1952	5 Gold, 1 Silver, 1 Bronze

<https://www.bbc.com/mundo/noticias-america-latina-37161439>



WEAKNESSES 劣势

Athletes with more olympic medals

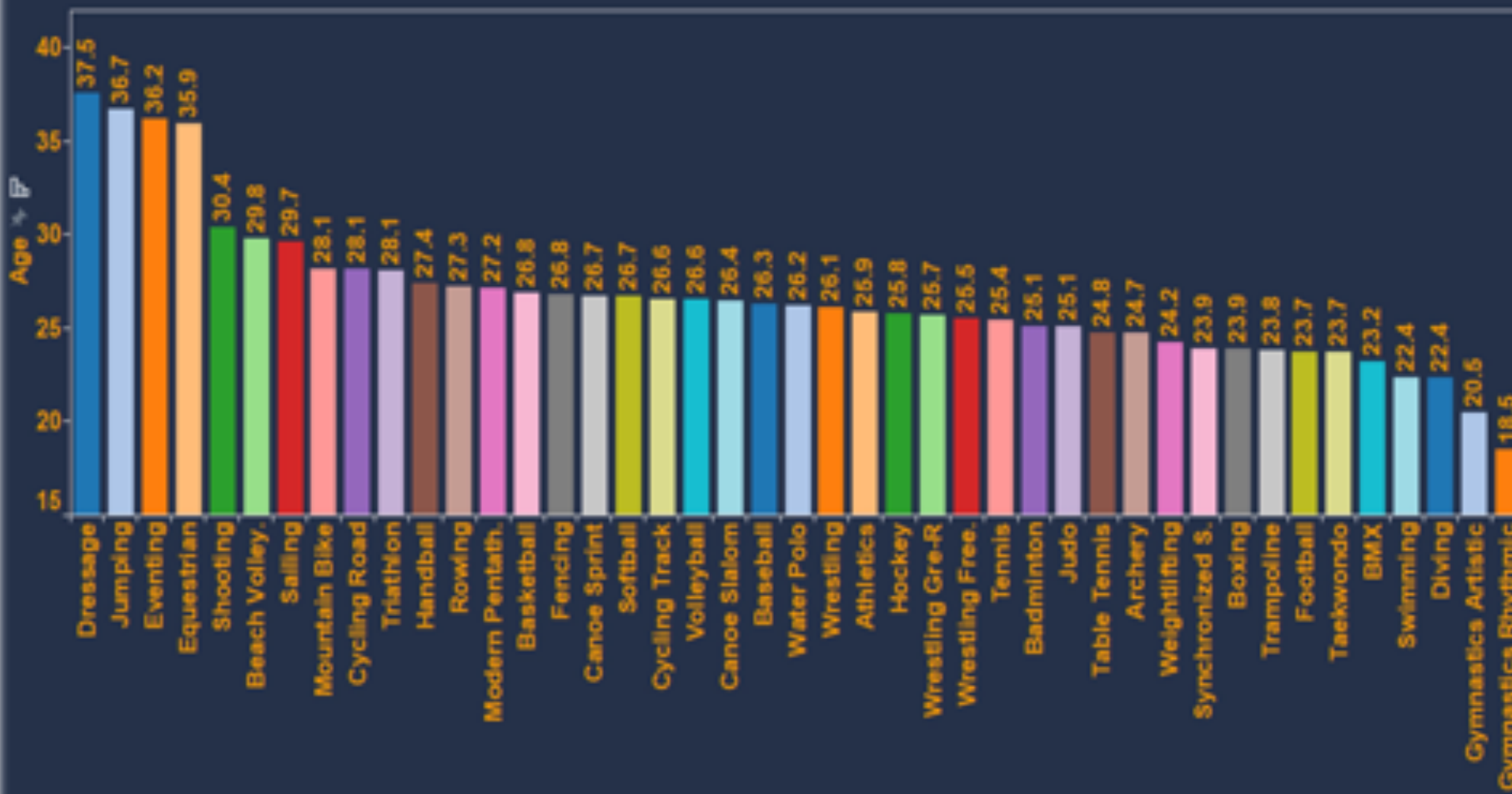




WEAKNESSES 劣势



SUMMER OLYMPICS - Average Age Per Discipline





WEAKNESSES 劣势

Low coach education

基层教练员文化水平普遍偏低





WEAKNESSES 劣势

Bad relationship between national team and provinces teams 国家队和各省队的交流相对匮乏





WEAKNESSES 劣势

Periodization mistakes 周期安排的误区





WEAKNESSES 劣势

Invisible training

训练监控的不可视化 (睡眠、营养和恢复等)

Invisible training

- Sleep, rest, nutrition, personal hygiene habits





WEAKNESSES 劣势

Low technical training 专项训练的局限性





WEAKNESSES 劣势

Low international experience in young athletes
在青少年级别的国际比赛经验欠缺





17-YEAR-OLD DARIA BILODID BECAME THE YOUNGEST WORLD JUDO CHAMPION IN HISTORY



Daria Bilodid





机会

OPPORTUNITIES



What opportunities are open to you?

What trends could you take advantage of?

How can you turn your strengths into opportunity.



OPPORTUNITIES 机会

- Diversify national teams 国家级运动队的多样化





OPPORTUNITIES 机会

- Talent selection 有天赋的运动员基数大





OPPORTUNITIES 机会

- Talent selection 有天赋的运动员基数大





OPPORTUNITIES 机会

- Establish cooperation/relationship with other countries 和其他国家的专业队建立合作关系





OPPORTUNITIES 机会

- Possibility of hiring foreign staff 聘用外籍专家





OPPORTUNITIES 机会

- Possibility to organize international big events/leagues 组织举办国际大赛的可能性





OPPORTUNITIES 机会

- China **MUST** be a reference in sports science 体育科研有提高空间





OPPORTUNITIES 机会

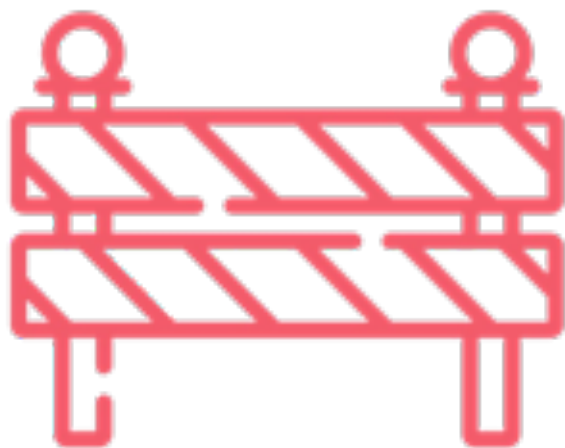
- Improve level in certain sports 在一些项目的水平上中还有提高空间





威胁

THREATS

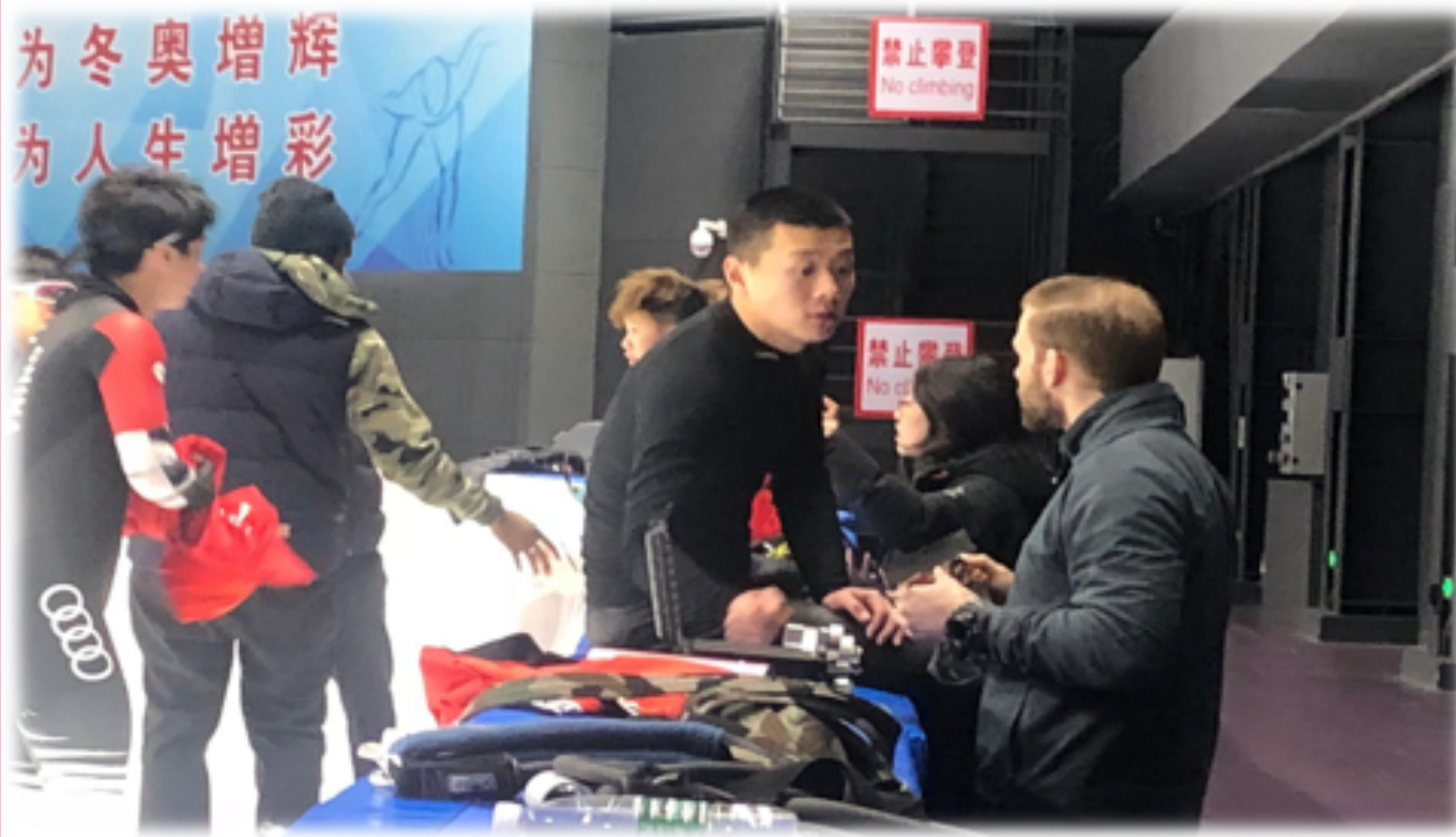


What threat can harm you?
What is your competitor doing?
What threats do your weaknesses require aspect to pay.



THREATS 威胁

- Reduce Budget 经费减少





THREATS 威胁

- In the future less athletes want to sacrifice their lives 愿意为体育献身的运动员逐渐减少





THREATS 威胁

- Dont have enough support from province teams
省队的资源有限





THREATS 威胁

- Don't be able to create a long term development model for Chinese Team and just focus in short term goals. 不仅要重视短期目标，更要建立长远发展计划





THREATS 威胁

- Interference with Chinese Olympic Committee requirements 领导的想法影响你的工作





THREATS 威胁

- Current situation with COVID-19 pandemic.

疫情的影响





THREATS 威胁

- Many times head coaches don't have enough power 很多时候主教练没有足够的权利





发挥优势因素

WORK ON YOUR STRENGTHS





克服弱点因素 IMPROVE YOUR WEAKNESSES





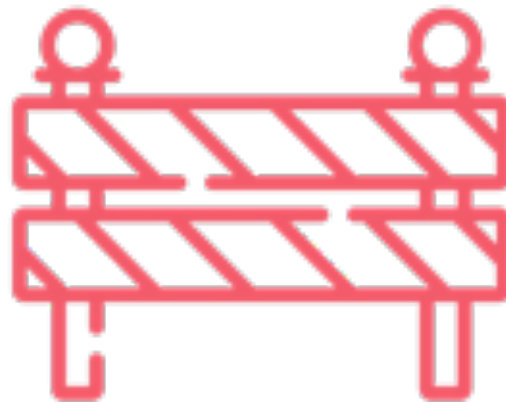
利用机会因素

TAKE ADVANTAGE OF YOURS
OPPORTUNITIES





化解威胁因素 KNOWING YOUR THREATS







主要内容:

- *PRINCIPLES OF SPORT TRAINING* 运动训练原理
- *PERIODIZATION MODELS: TRADITIONAL VS MODERN PERIODIZATION*
- 周期模型: 传统和现代周期模型
- *TAPERING Y PEAKING* 减量和最佳运动表现
- *WEIGHT LOSS IN COMBAT SPORTS* 重竞技项目中的减重
- *OTHER IMPORTANT ASPECTS IN OUR PERIODIZATION*
- 周期训练的其他要点
- *EXAMPLE* 举例
- *EXCEL* 表格





Sports training:

ART or SCIENCE?

运动训练：艺术，还是科学？



“Scientific training doesn’t exist. Scientific background can help to not take wrong decisions and choose better decisions”.

Gregoire Millet





PRINCIPLES OF SPORTS TRAINING 运动训练原理





Periodization training is the deliberate manipulation of training variables to optimize performance for competition, prevent overtraining, and progress performance.

周期训练是熟练使用不同的训练手段，优化和提高运动表现，避免过度训练。



PRINCIPLES OF SPORTS TRAINING 运动训练原理

The **principles of training** are intended to guide the coach in *preparing*, *implementing* and *reviewing* the training programme.

训练原则旨在指导教练准备、实施和回顾训练计划。

The principles are mainly formulated from the accumulated knowledge and research within *coaching science* and *coaching practice*. 这些原则主要是根据教练科学和教练实践中积累的知识 and 研究得出的。

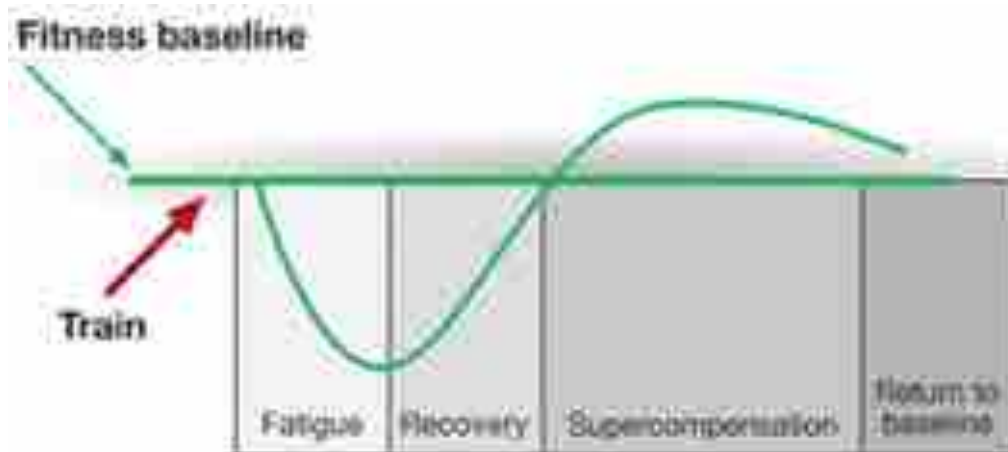
The principles, if used appropriately, will ensure that best practice in terms of work and recovery are followed. 这些原则如果被合理使用，将确保训练实践和恢复起到最佳效果。



PRINCIPLES OF SPORTS TRAINING 运动训练原理

➡ Adaptation 适应

Adaptation is the process of adjusting to a physical or environmental or psychological stress or stimulus. According to this, stress causes a temporary **reduction in performance** or function which is followed by an **adaptation** that improves the body's performance or function. This improved response is often called the '**supercompensation**' theory of training.

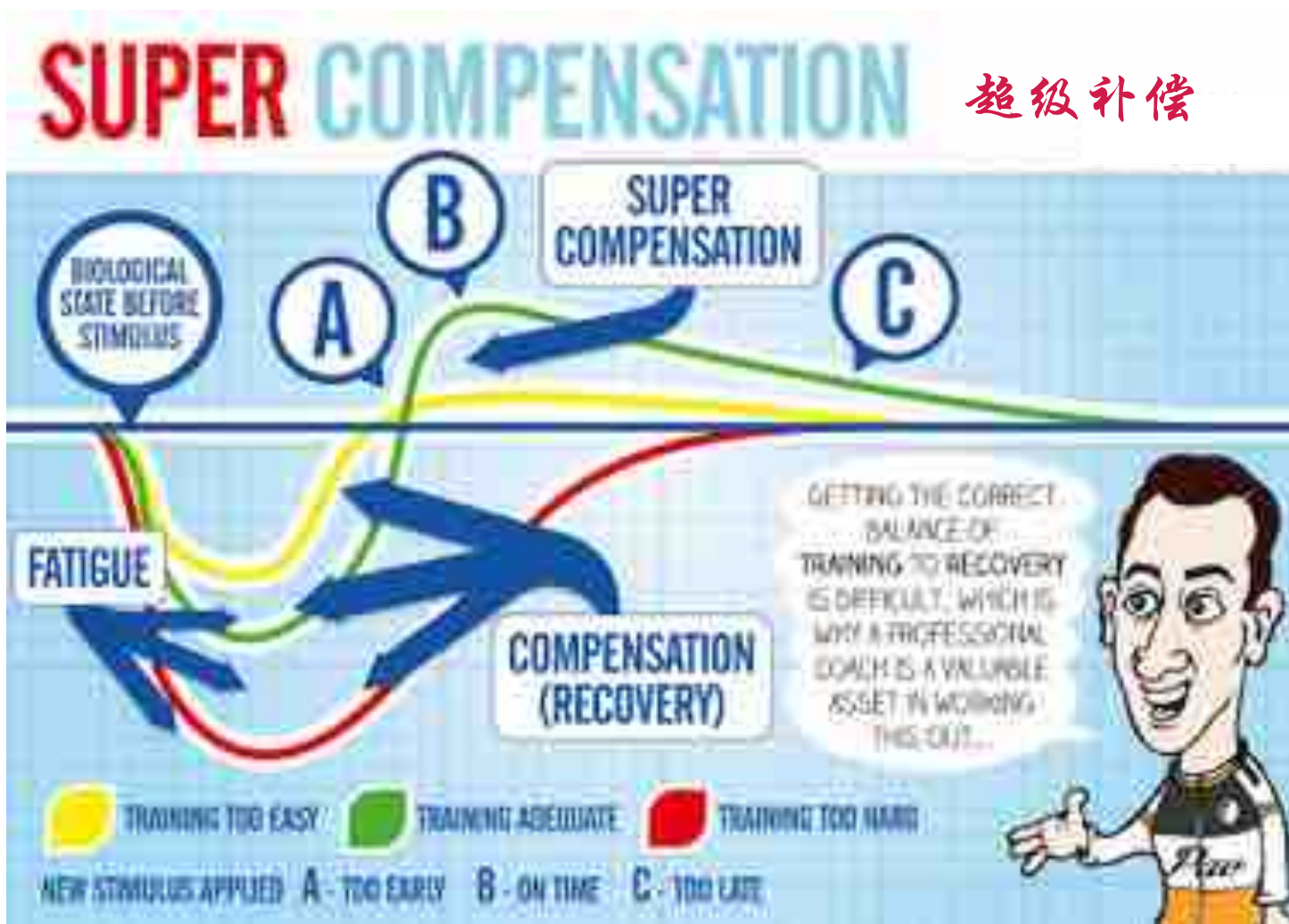


适应是适应生理或环境或心理压力或刺激的过程。根据这一点，压力会导致暂时性的表现或功能下降，然后是表现为身体表现改善或身体功能的适应。这种改进的反应通常被称为“超量恢复”训练理论。



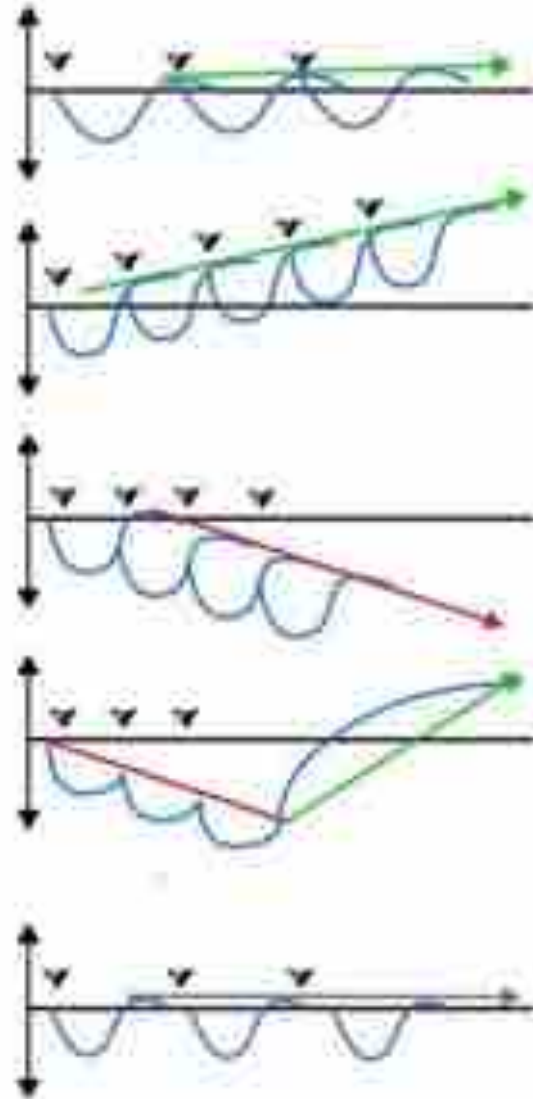
PRINCIPLES OF SPORTS TRAINING 运动训练原理

➡ Adaptation 适应





PRINCIPLES OF SPORTS TRAINING 运动训练原理



Supercompensation positive

Supercompensation positive

Supercompensation negative

Supercompensation positive
accumulated

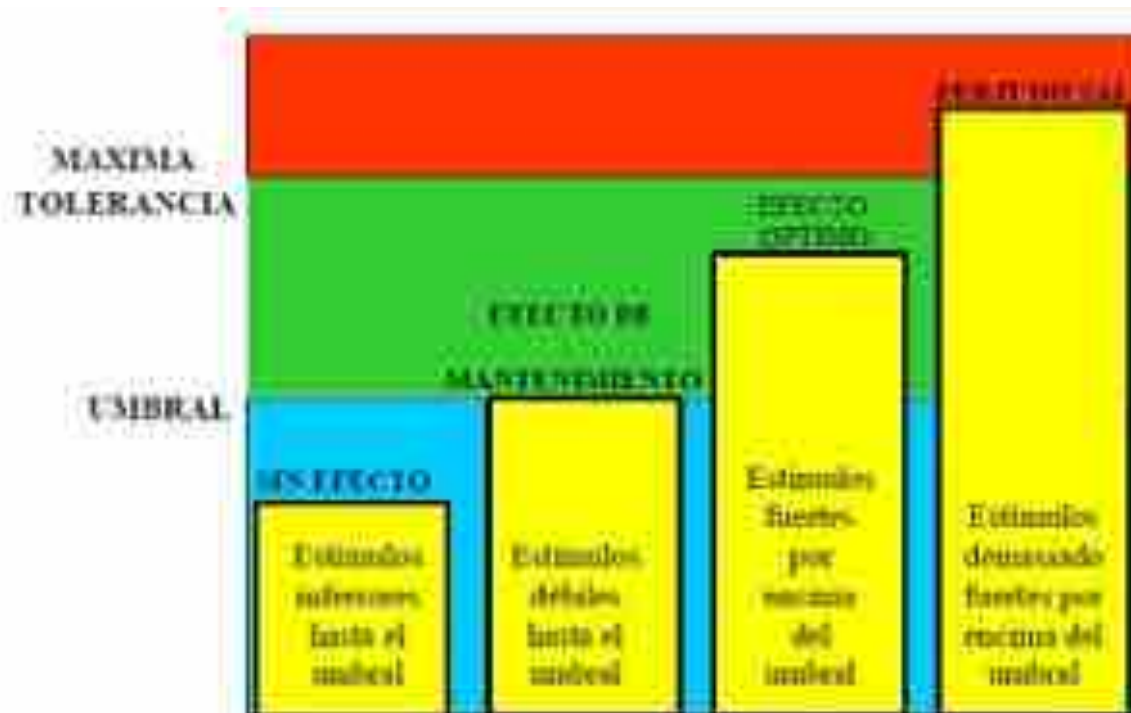
Supercompensation null



PRINCIPLES OF SPORTS TRAINING 运动训练原理

➔ Overload

The Overload Principle is a basic sports fitness training concept. It means that in order to improve, athletes must continually work harder as they their bodies adjust to existing workouts.

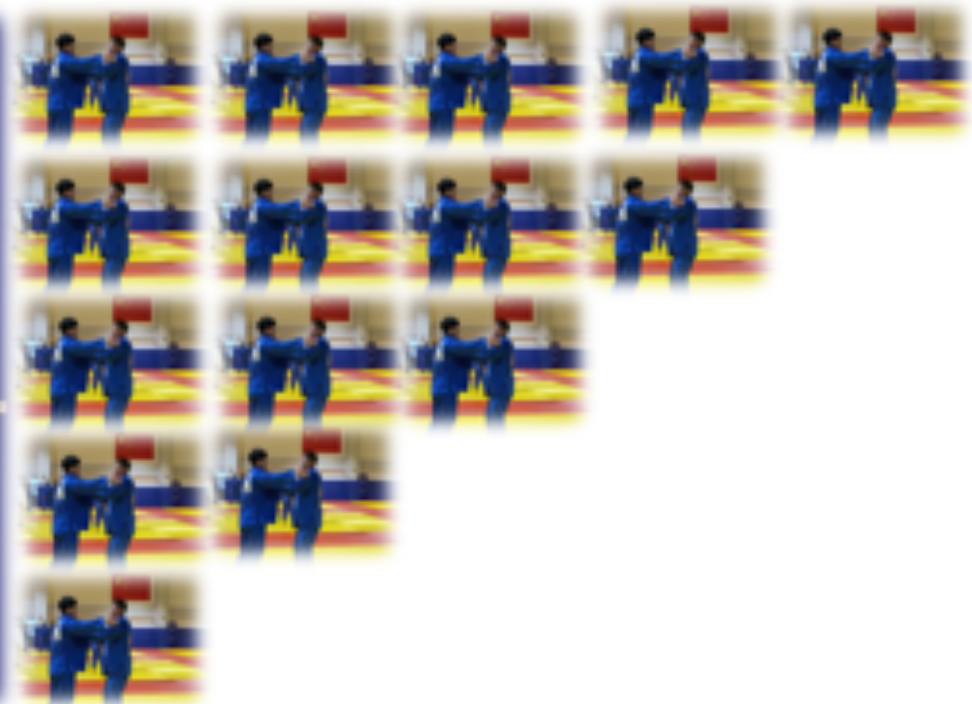


超负荷原则是运动健身训练的基本理念。这意味着，为了提高，运动员必须不断努力训练，使得他们的身体适应现有的训练方式。



PRINCIPLES OF SPORTS TRAINING 运动训练原理

➡ Overload



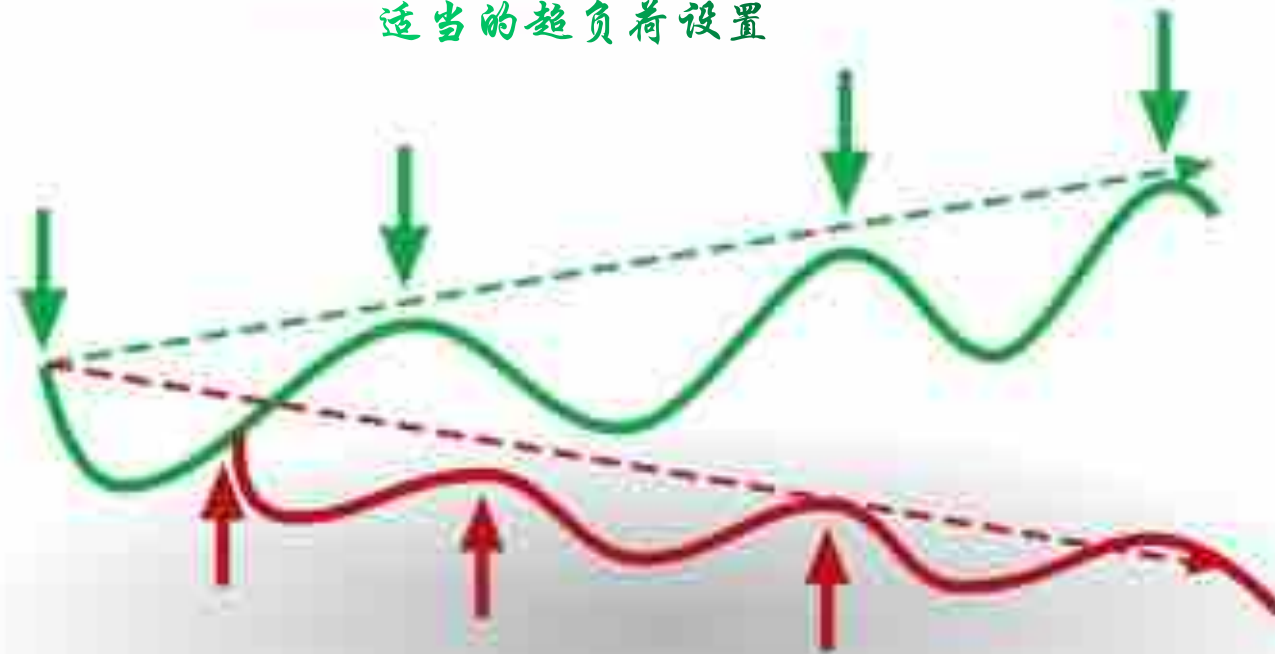


PRINCIPLES OF SPORTS TRAINING 运动训练原理

➡ Overload

Appropriate placement of 'overload'

适当的超负荷设置



Inappropriate placement of 'overload'



PRINCIPLES OF SPORTS TRAINING 运动训练原理

➡ Progression 进展

Over time the body becomes accustomed to exercising at a given level. This adaptation results in improved efficiency, less effort and less muscle breakdown at that level.



Figura 1.4.- Las tres fases de la curva de rendimiento del mismo estímulo.

随着时间的推移，身体逐渐习惯于在一定水平（强度）上训练。这种适应的表现就是效率提高，不再那么辛苦以及减少肌肉在这一水平下的崩溃。



PRINCIPLES OF SPORTS TRAINING 运动训练原理

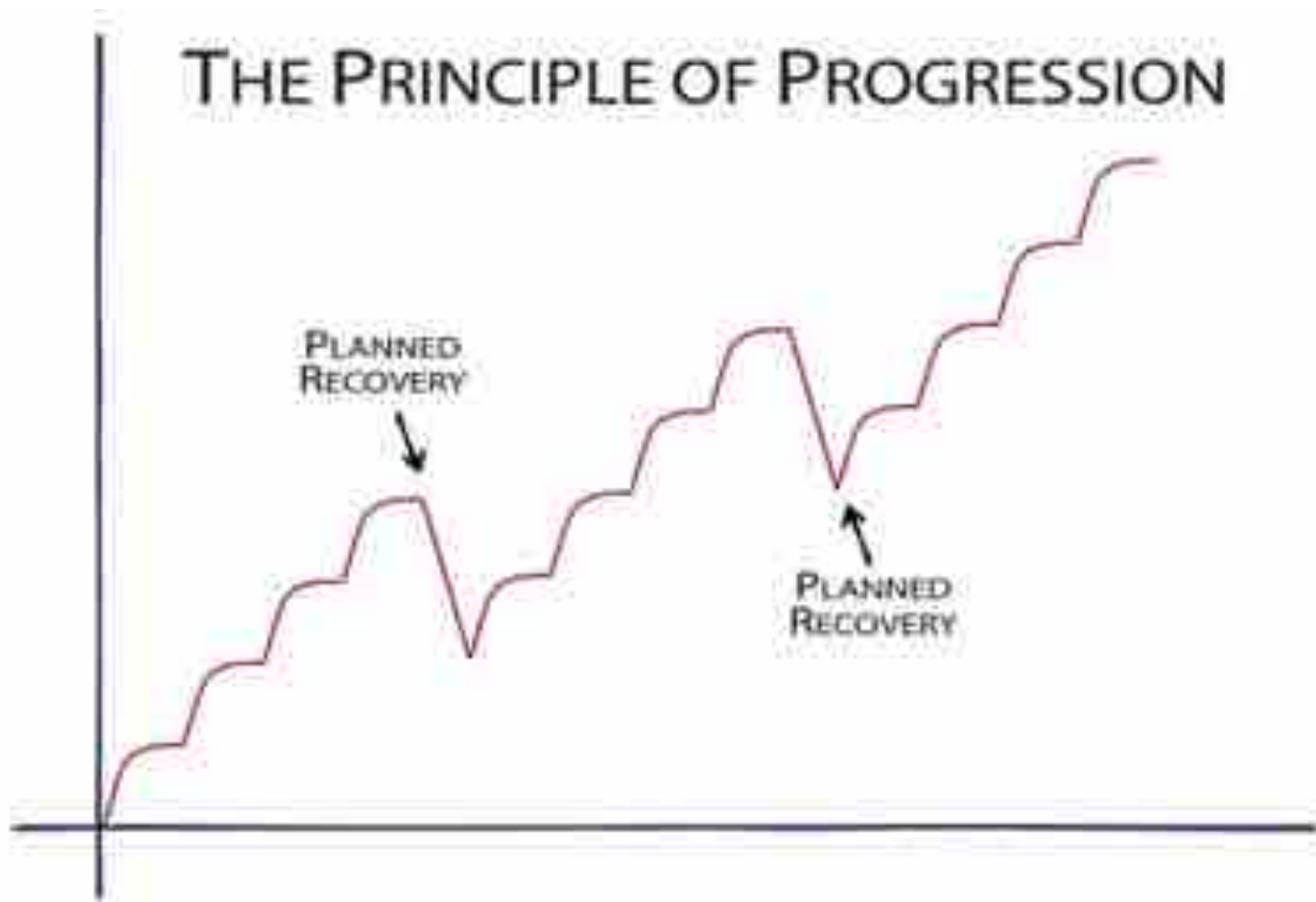
➡ Progression 进展





PRINCIPLES OF SPORTS TRAINING 运动训练原理

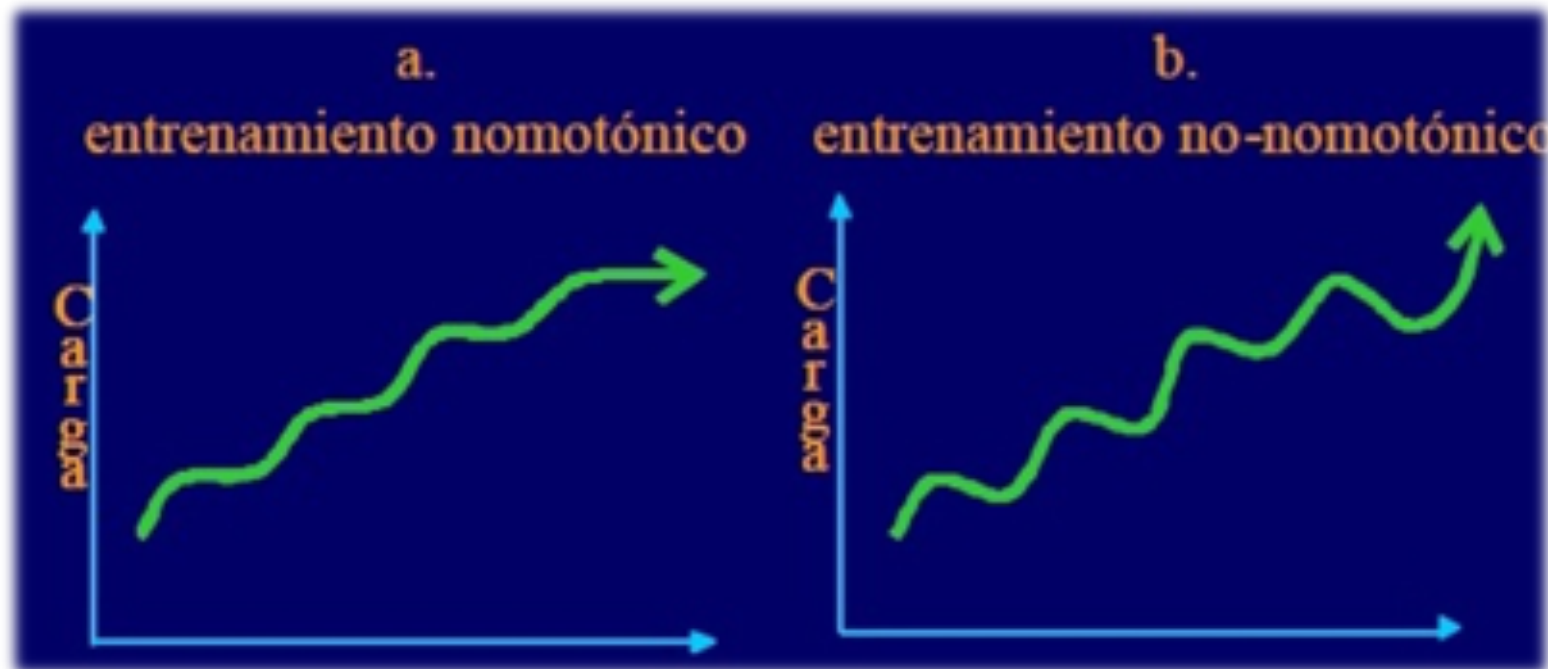
➡ Progression 进展





PRINCIPLES OF SPORTS TRAINING 运动训练原理

➡ Progression 进展





PRINCIPLES OF SPORTS TRAINING 运动训练原理

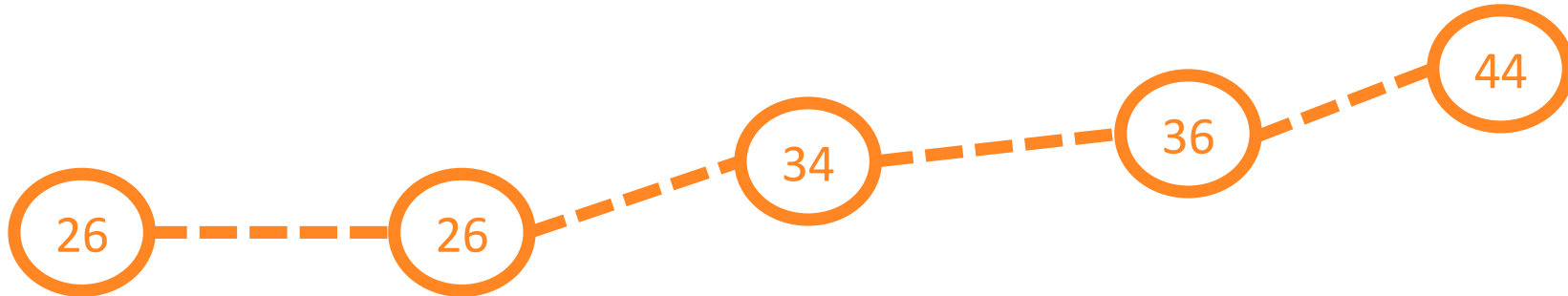
➡ Progression 进展

sesión de desarrollo, carga extrema	4 puntos
Sesión de desarrollo, carga grande	4 puntos
Sesión de desarrollo, carga importante	3 puntos
Sesión de mantenimiento, carga media	2 puntos
Sesión de recuperación, carga baja	1 punto

1 一	Really easy 十分轻松
2 二	Easy 轻松
3 三	Moderate 一般。中等水平
4 四	Somewhat hard 有点难
5 五	Hard 困难
6 六	
7 七	Very hard 非常困难
8 八	
9 九	Extremely hard 非常。非常困难
10 十	Maximal: just like my hardest race 极限值。是我做过的最难的



PRINCIPLES OF SPORTS TRAINING 运动训练原理





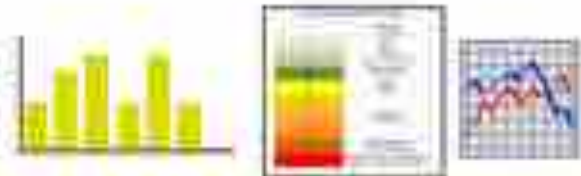
PRINCIPLES OF SPORTS TRAINING 运动训练原理



WEEKLY PLAN SHANGHAI JUDO

TEAM 团队: JUDO SHANGHAI
 WEEK 周: 2021 April
 COACH 教练: Lü Hongqian, Wu Huanan, Felipe Sánchez

SEASON 赛季: 2021
 MICROCYCLE 微循环: 2021 April



星期	星期一	星期二	星期三	星期四	星期五	星期六	星期日
REST 休息	REST 休息	15.00 JUDO 柔道 Warm up 热身 15' CIRCUIT CIRCUIT 45' 	15.00 GYM 健身房 strength training 力量训练 Swing 12' Uchi koma bands 毬为所打込 x 200	REST 休息	15.00 JUDO 柔道 Warm up 热身 15' CIRCUIT CIRCUIT 45' 	15.00 GYM 健身房 strength training 力量训练 Swing 12' Uchi koma bands 毬为所打込 x 200	REST 休息
训练	15.00 JUDO 柔道 Warm up 热身 15' Uchikomi 打込 10x10 Yasuki group 5x 4/30" Randori TW 寝技实践 2x (Dx4/30"/V1/30" Randori NW 寝技实践 6x3/30"	15.00 JUDO 柔道 Warm up 热身 15' TECHNIQUE 寝技技术 Ahi waza 30" Randori ahi waza 5 x3" Poic defusa with the pier ROPE CLIMBING x 3	15.00 JUDO 柔道 Warm up 热身 15' Uchikomi 打込 10x10 Yasuki group 5x 4/30" Randori TW 寝技实践 2x (Dx4/30"/V1/30" Randori NW 寝技实践 6x3/30"	15.00 JUDO 柔道 Warm up 热身 15' TECHNIQUE 寝技技术 Ahi waza 30" Randori ahi waza 5 x3" Poic defusa with the pier ROPE CLIMBING x 4	15.00 JUDO 柔道 Warm up 热身 15' Uchikomi 打込 10x10 Yasuki group 5x 4/30" Randori TW 寝技实践 2x (Dx4/30"/V1/30" Randori NW 寝技实践 6x3/30"	REST 休息	REST 休息
训练							
训练							



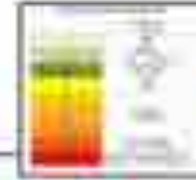


PRINCIPLES OF SPORTS TRAINING 运动训练原理



WEEKLY PLAN SHANGHAI JUDO

TEAM 球队:	JUDO SHANGHAI	SEASON 赛季:	2021
WEEK 周:	25-01-2021	MICROCYCLE 微循环:	46-cumulat
COACH 教练:	Elumpepla, WuJianan, Felipe Sánchez		



	星期一	星期二	星期三	星期四	星期五	星期六	星期日
09:00 JUDO 柔道 Warm up 热身 15' CIRCUIT DRAGON 45' 	09:00 GYM 健身房 strength training 力量训练 Rowing 10' Uchi-komi bands 弹力带打站 x 200	09:00 JUDO 柔道 Warm up 热身 15' CIRCUIT DRAGON 45' 	09:00 GYM 健身房 strength training 力量训练 Rowing 10' Uchi-komi bands 弹力带打站 x 200	09:00 JUDO 柔道 Warm up 热身 15' Uchi-komi Yagiko group 5x 4/30' 乱投技打站 Random TW 投技实战 6x 12" x 2" x 2" KaiGaki/45 Random NW 寝技实战 6x 3/30" Conditioning	REST 休息	REST 休息	REST 休息
13:00 JUDO 柔道 Warm up 热身 15' Uchi-komi Yagiko group 5x 4/30' 乱投技打站 Random TW 投技实战 6x 12" x 2" x 2" KaiGaki/45 Random NW 寝技实战 6x 3/30"	15:00 JUDO 柔道 Warm up 热身 15' TECHNIQUE 投技技术 ROPE CLIMBING 3	13:00 JUDO 柔道 Warm up 热身 15' Uchi-komi Yagiko group 5x 4 乱投技打站 Random TW 投技实战 6x 12x4/30"/1'30" 4 jacket/4 no jacket Random NW 寝技实战 6x 5/30" 3 jacket/3 no	13:00 JUDO 柔道 Warm up 热身 15' TECHNIQUE 投技技术 ROPE CLIMBING 4	REST 休息	REST 休息	REST 休息	REST 休息
训练量	3	3	3	3	3	0	0
恢复量	3	3	3	3	3	0	0
总训练量	6	6	6	6	6	0	0



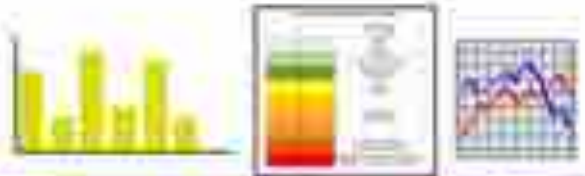


PRINCIPLES OF SPORTS TRAINING 运动训练原理



WEEKLY PLAN SHANGHAI JUDO

TEAM 队伍	JUDO SHANGHAI	SEASON 赛季	2021
WEEK 周	2021 May	MINOCYCLE 微周期	87-cumulat
COACH 教练	JiHongxia, WuXiaolan, Felipe Sánchez		



星期一	星期二	星期三	星期四	星期五	星期六	星期日
08:30 JUDO 柔道 Warm up 热身 15' Running 1 x 6/5/4 last 1' rest Conditioning 15.00 JUDO 柔道 Warm up 热身 13' Uchi-komi Circuit training 5 x (3x1) Randori 6 x (1TW+2NW+2TW) 4 with judogi 4 without ROPE CLIMBING x 4	08:30 JUDO 柔道 Warm up 热身 15' Technique 30' Kumikata 20' Nage-komi 15' Randori NW 寝技实践 6 x 3/3M' Conditioning	08:00 GYM 健身房 Strength training 力量训练 Rowing 2000 m 12' Running	REST 休息	08:00 GYM 健身房 Strength training 力量训练 Rowing 2000 m 12' Running	09:00 JUDO 柔道 Warm up 热身 15' Yaku-utko gikō 反修技打站 5 x 5' / 20" Nage-komi 寝站 3 x 1' x 1' / 20" Running 22'	REST 休息
15.00 JUDO 柔道 Warm up 热身 13' Uchi-komi Circuit training 5 x (3x1) Randori 6 x (1TW+2NW+2TW) 4 with judogi 4 without ROPE CLIMBING x 4	EXHIBITION	15.00 JUDO 柔道 Warm up 热身 10' Randori TW, 投技实践 "Mitaru-goshi" 18 x 5' / 30" 4 athletes (max 2 of West of Judo) x 7'	15.00 JUDO 柔道 Warm up 热身 15' Technique 30' Kumikata 20' Nage-komi 15' Randori NW 寝技实践 20' Ippon ROPE CLIMBING x 3	15.00 JUDO 柔道 Warm up 热身 15' Uchi-komi Circuit training 5 x (3x1) Randori 6 x (1TW+2NW+2TW) 4 with judogi 4 without Rest	REST 休息	REST 休息
TRIP						
TRIP						





PRINCIPLES OF SPORTS TRAINING 运动训练原理



WEEKLY PLAN SHANGHAI JUDO

TEAM 队伍	BJJJ SHANGHAI		SEASON 赛季	2021			
WEEK 周	19-25 May		MEGACYCLE 大周期	45-cumulative			
COACH 教练	Eduardoguis, Wu Yuanzen, Felipe Sánchez						
星期	星期一	星期二	星期三	星期四	星期五	星期六	星期日
REST 休息	REST 休息	09:00 GYM 健身房 Warm up 热身 15' strength training 力量训练 Rowing 2000 m 12' rowing	09:00 JUDO 柔道 Warm up 热身 15' Running 1 x 6/5/4 laps 2' rest Conditioning ROPE CLIMBING x 3	09:00 GYM 健身房 Warm up 热身 15' WEIGHTLIFTING 举重 CORE training	09:00 GYM 健身房 Warm up 热身 15' strength training 力量训练 Rowing 2000 m 12' rowing	09:00 GYM 健身房 Warm up 热身 15' UKI-tachi 弹力带训练 x 300 Rowing 2000 m Conditioning	REST 休息
训练							0
14.15 JUDO 柔道	14.15 JUDO 柔道 Warm up 热身 15' Uki-kata Circuit training 5 x (5+1) Randori 10 x 2/TW+2 NW+2 TW 3 with Judo 4 without	JUDO 柔道 group 1- 14.30 group 2- 16.00 Warm up 热身 15' Technique 30' Kumikata 20' Nage-kumi 10' Randori NW 寝技实践 15'	15.00 JUDO 柔道 Warm up 热身 10' Randori TW 投技实践 "Mito-gachi" 10 x 3/30' 4 amaris more goal Heart of jūdō x 0	JUDO 柔道 group 1- 14.30 group 2- 16.00 Warm up 热身 15' Technique 30' Kumikata 20' Nage-kumi 10' Randori VW 寝技实践 15'	REST 休息	REST 休息	REST 休息
ROPE CLIMBING x 3							
训练							10
训练							10





PRINCIPLES OF SPORTS TRAINING 运动训练原理

WEEKLY PLAN SHANGHAI JUDO



TEAM 球队	AJDO SHANGHAI	SEASON 赛季	2022
WEEK 周	17-23 May	MICROCYCLE 微循环	48-striking
COACH 教练	Ishiyama, WuJiatao, Felipe Sánchez		



	星期一	星期二	星期三	星期四	星期五	星期六	星期日
热身	REST 休息	09:00-09:30 热身 15' strength training 力量训练 Rowing 2000 m	09:00 JUDO 柔道 Warm up 热身 15' Running 1 x 6'/4 laps 2' rest. Conditioning ROPE CLIMBING x 6	09:00 GYM 健身房 Warm up 热身 15' strength training 力量训练	09:00 JUDO 柔道 Warm up 热身 15' Yaku saku yuki 迎刃在打站 3 x 3' /20" Nagekomi 投込 5 x 1'45"/20" ROPE CLIMBING x 6	09:00-09:30 热身 15' strength training 力量训练 Rowing 2000 m	REST 休息
训练	13:00 JUDO 柔道 Running 跑步 25' Circuit training 3 x (3x1) Randori 10 x (2' TW + 2' NW + 2' TW) 5 with judogi 4 without ROPE CLIMBING x 6	JUDO 柔道 group 1 - 24:30 group 2 - 18:00 Warm up 热身 15' Technique 30' Kumikata 20' Nagekomi 15' Randori NW 寝技柔道 15'	13:00 JUDO 柔道 Warm up 热身 30' Randori TW 寝技柔道 "Mato gachi" 10 x 5' /30" 6 athletes must do it (Warm up athletes x 7)	JUDO 柔道 group 1 - 24:30 group 2 - 23:45 Warm up 热身 15' Technique 30' Kumikata 20' Nagekomi 10' Randori NW 寝技柔道 15'	13:00 JUDO 柔道 Running 跑步 25' Circuit training 3 x (3x1) Randori 8 x (2' TW + 2' NW + 2' TW) 4 with judogi 4 one with judogi other without	REST 休息	REST 休息
强度	0	3	3	3	2	3	0
容量	0	4	4	4	4	0	0
恢复	0	0	0	0	0	0	0





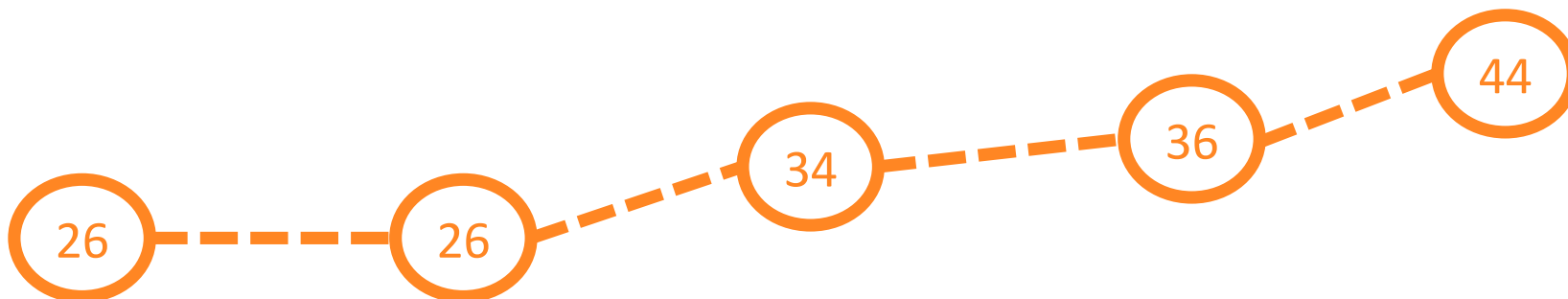
PRINCIPLES OF SPORTS TRAINING 运动训练原理

XieYadong		90	MALE	0	0
	2021-04-19	270	270		
	2021-04-20	330	330		
	2021-04-21	740	740		
	2021-04-22	690	690		
	2021-04-23	880	630		
	2021-04-24	270	270		
	2021-04-25	0	-		
WEEK LOAD	% DIF WK	AVG WL CAT			
3180	#1 DIV/01	1915			

XieYadong		90	MALE	0	0
	2021-05-10	575	603		
	2021-05-11	1140	985		
	2021-05-12	1450	1355		
	2021-05-13	640	635		
	2021-05-14	440	495		
	2021-05-15	240	180		
	2021-05-16	0	-		
WEEK LOAD	% DIF WK	AVG WL CAT			
4485	-4,98%	4253			

XieYadong		90	MALE	0	0
	2021-04-26	600	660		
	2021-04-27	1350	1290		
	2021-04-28	880	915		
	2021-04-29	1040	860		
	2021-04-30	600	600		
	2021-05-01	0	-		
	2021-05-02	0	-		
WEEK LOAD	% DIF WK	AVG WL CAT			
4470	645,00%	4325			

XieYadong		90	MALE	0	0
	2021-05-03	1000	940		
	2021-05-04	720	660		
	2021-05-05	1020	1080		
	2021-05-06	360	420		
	2021-05-07	1020	930		
	2021-05-08	600	450		
	2021-05-09	0	-		
WEEK LOAD	% DIF WK	AVG WL CAT			
4720	5,59%	4480			





PRINCIPLES OF SPORTS TRAINING 运动训练原理

➡ Recovery 恢复

The Recovery Principle dictates that athletes need adequate time to recuperate from training and competition. Many believe that an athlete's ability to recover from workouts is just as important as the workout itself.

恢复原则规定运动员需要足够的时间从训练和比赛中恢复。许多人认为，运动员从训练中恢复的能力和训练本身一样重要。

It is during rest periods that athletes' bodies adapt to the stress placed upon them during intense workout sessions and competitions. Rest also provides time for a mental preparation and reflection.

正是在休息期间，运动员的身体适应了紧张的训练和比赛中施加在他们身上的压力。休息同时也为心理准备和反思提供了时间。

The Recovery Principle applies both to immediate rest needed between bouts of exercise, as well as to longer time intervals of several hours to about two days.

恢复原则既适用于运动间歇所需的立即休息，也适用于几小时到两天左右的较长时间间隔。



PRINCIPLES OF SPORTS TRAINING 运动训练原理

➡ Specificity 专项性

The Specificity Principle is key to developing effective fitness training programs for sports. Specificity also underlies how athletes learn sport skills. However, the principle is sometimes misinterpreted.

Specificity refers to the type of changes the body makes in response to sports training. **Very simply, *what you do is what you get.***



专项性原则是制定有效的运动健身训练方案的关键。专项性也构成了运动员学习运动技能的基础方式。然而，这一原则有时被曲解。专项性是指身体对运动训练做出的改变的类型。简单地说，你所做的就是你所得到的。



PRINCIPLES OF SPORTS TRAINING 运动训练原理

➡ Reversibility 可逆性

Reversibility means that an athlete can lose the effects of training when they stop, and can gain the effects when they begin to train again.

可逆性是指运动员在停止训练时可能失去训练效果，而在重新开始训练时获得训练效果。

Detraining occurs within a relatively short time period after an athlete ceases to train. Performance reductions may occur in as little as two weeks or sooner.

运动员停止训练后，在相对较短的时间内就会出现能力降低的情况。能力降低可能在两周内或更短的时间内发生。

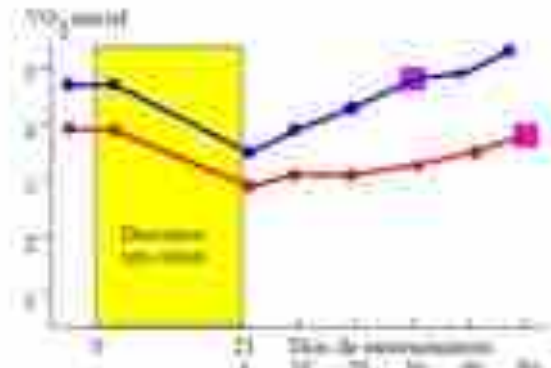
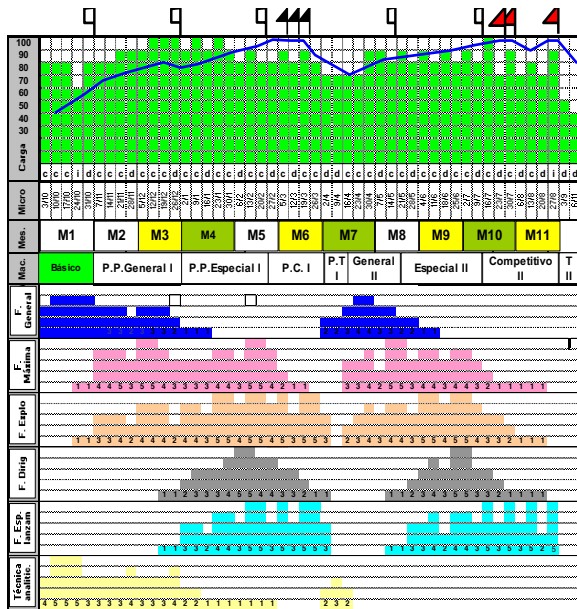


Figure 5.11: A possible relationship between training and performance over time.



PRINCIPLES OF SPORTS TRAINING 运动训练原理

➡ Cyclic Character of the Training Process 训练过程的循环特性

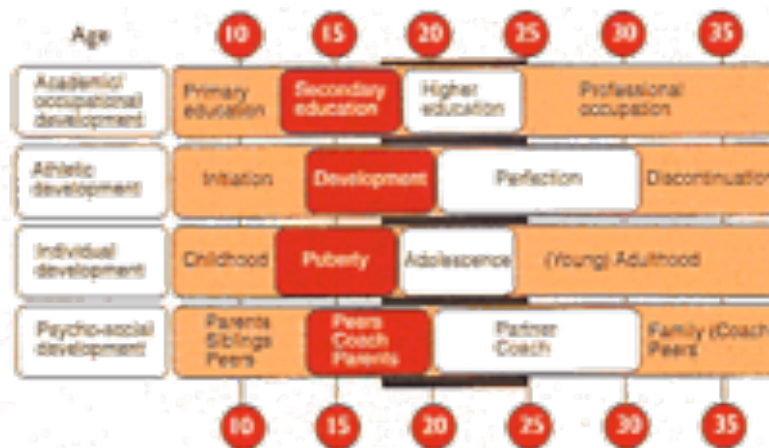




PRINCIPLES OF SPORTS TRAINING 运动训练原理

➡ Individualization 个性化

The Individualization Principle dictates that sports training should be adjusted according to each athlete's characteristics and needs, such as age, gender, rate of progress, and previous experience. The goal of individualization is to capitalize on each athlete's strengths, exploit their genetic potential, and strengthen their weaknesses.



个性化原则要求应根据每个运动员的特征和需求（例如年龄，性别，进步速度和以前的经验）来调整运动训练。个性化的目标是发挥每位运动员的长处，发挥其遗传潜能，并增强其弱点。



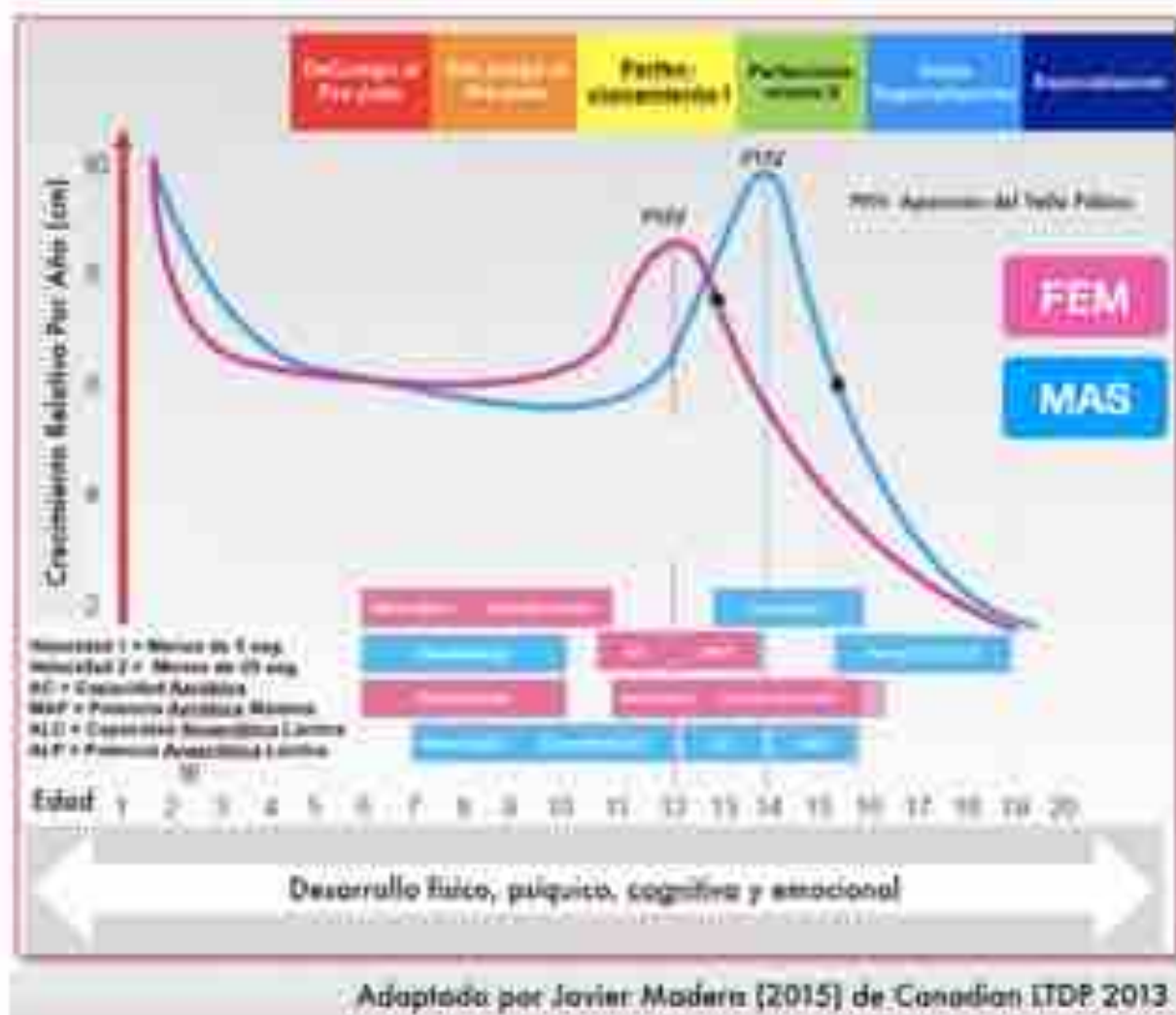
PRINCIPLES OF SPORTS TRAINING 运动训练原理





PRINCIPLES OF SPORTS TRAINING 运动训练原理

- Gender differences 性别差异





PRINCIPLES OF SPORTS TRAINING 运动训练原理

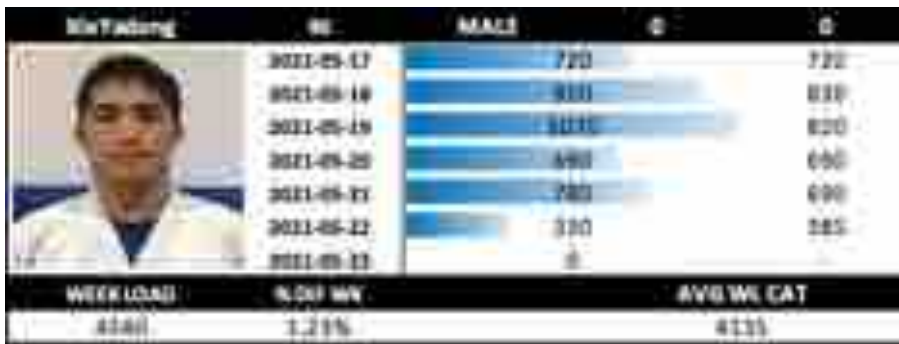
- Biological age vs chronological age





PRINCIPLES OF SPORTS TRAINING 运动训练原理

- Individualize training loads 训练负荷个性化





PRINCIPLES OF SPORTS TRAINING 运动训练原理

➡ Variability 变化

The Variation Principle suggests that minor changes in training regimens yield more consistent gains in sport performance. Training programs for virtually every sport include variations in **intensity**, **duration**, **volume**, and other **important aspects** of practice.

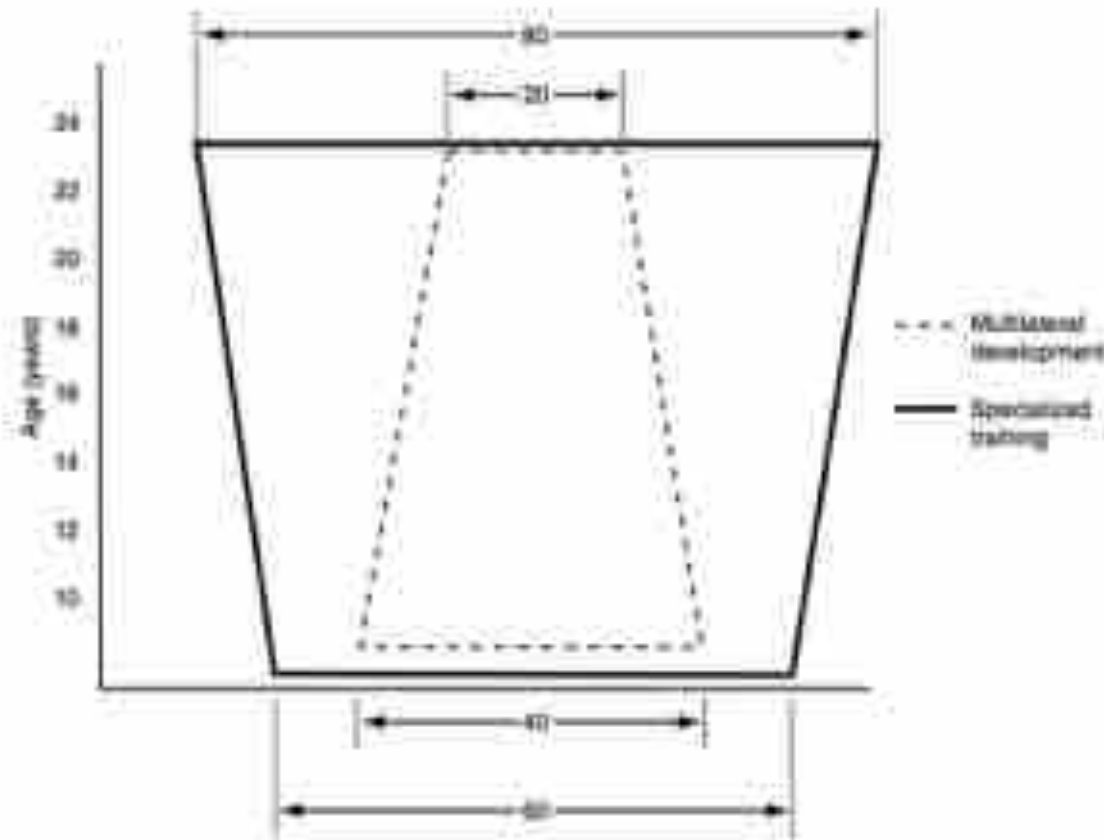
变化原理表明，训练方案的微小变化会使运动成绩获得更持续的提高。几乎每项运动的训练计划都包括强度、持久、训练量和其他重要练习方面的变化。





PRINCIPLES OF SPORTS TRAINING 运动训练原理

➡ **Multilateral development vs specialization**
多元化和专项化





PRINCIPLES OF SPORTS TRAINING 运动训练原理

➡ Multilateral development vs specialization 多元化和专项化

COMPARISON BETWEEN EARLY SPECIALIZATION AND MULTILATERAL DEVELOPMENT

Early Specialization

- Quick performance improvement
- Best performances achieved at 15 to 16 years of age because of quick adaptation
- Inconsistent performance in competition
- High incidence of burnout and quitting sport by age 18
- Increased risk of injury because of forced adaptation and lack of physiological development

Multilateral Development

- Slower performance improvement
- Best performances at age 18 or older when the athlete has reached physiological and psychological maturation
- Consistent and progressive performance in competition
- Longer athletic career
- Fewer injuries as a result of more progressive loading patterns and overall physiological development

Based on Hume 1982 (46).



PRINCIPLES OF SPORTS TRAINING 运动训练原理

➡ Multilateral development vs specialization 多元化和专项化



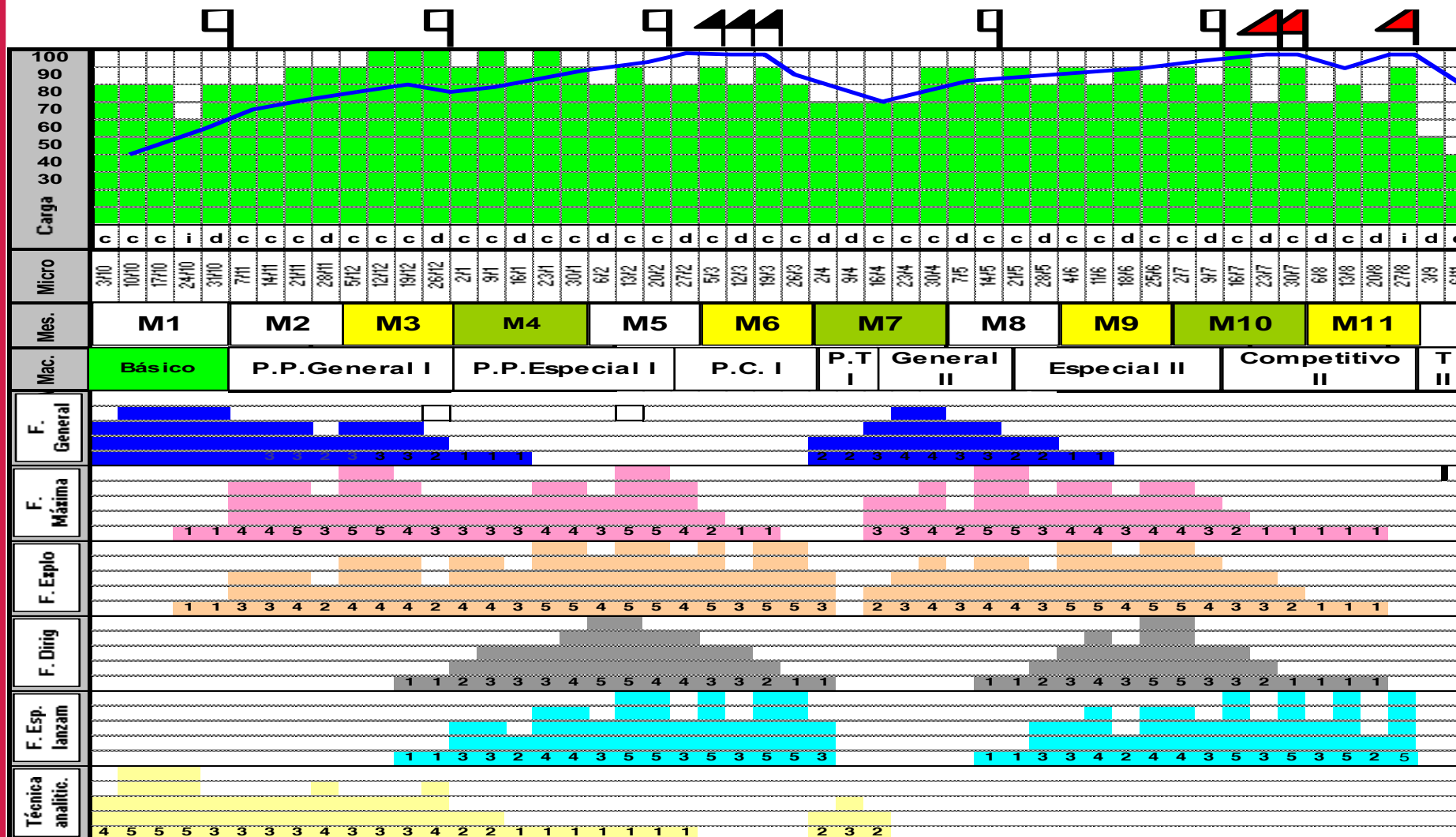
17-YEAR-OLD DARIA BILODID BECAME THE YOUNGEST WORLD JUDO CHAMPION IN HISTORY

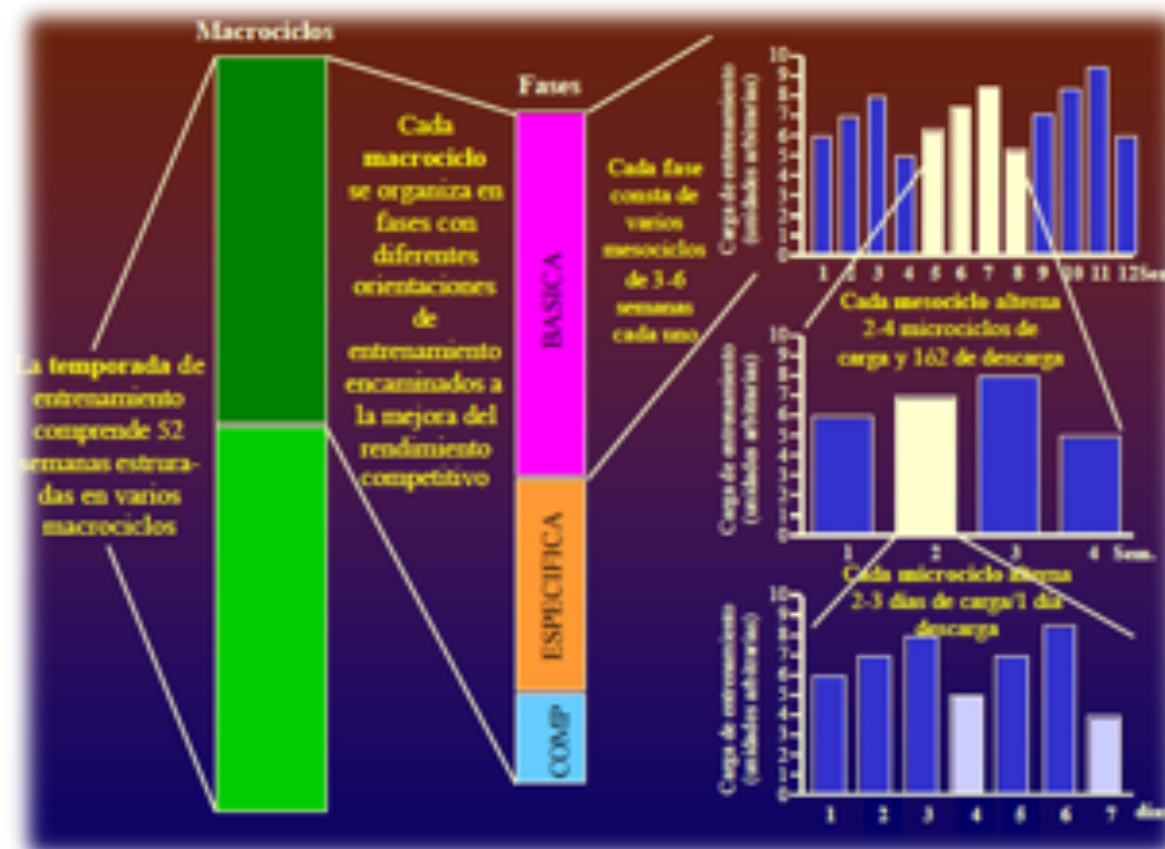
Daria Bilodid





PERIODIZATION





Periodization usually involve 52 training weeks a year distributed in 1 to 5 competition cycles called macrocycles. These macorcycles are structured in smaller units of periodization (periods, phases, mesocycles, microcycles) according the different peridization models applied.

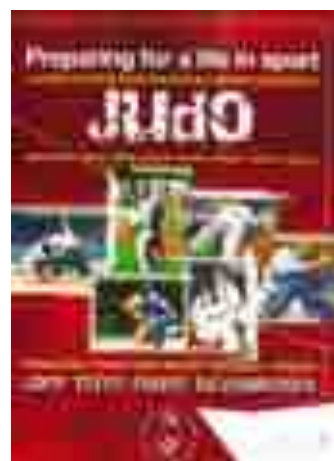


LTAD-LONG TERM ATHLETE DEVELOPMENT MODEL

运动员长期发展模型



Canada Long Term Athlete Development Model





LTAD-LONG TERM ATHLETE DEVELOPMENT MODEL 运动员长期发展模型





LTAD-LONG TERM ATHLETE DEVELOPMENT MODEL

运动员长期发展模型

FUN	L2T		T2T		T2C		T2W	
							U21	SENIOR
						U18	National Centre and Caring	
						U16		
						Provincial - Regional Center	Tactical / Physical / Technical Training	Tactical / Physical / Technical Training
						U14	Technical Development	Technical Refinement
							Competition Specific Technical Development	Competition Specific Technical Refinement
							Competition 10-16 x year	Competition 10-16 x year
							Competition 10-12 x year	Competition 10-16 x year
							Competition 8-10 x year	Competition 10-16 x year
							Coordination Speed Endurance	Speed Endurance, Strength, Power
							Speed Endurance, Strength	Speed Endurance, Strength, Power
							Tactical Training	Tactical and Technical Training 2 x week
							Mental Training	Mental Training 2 x week
							Cross Training 3-4 x week	Energy System Training 2 x week Strength Training 3 x week
							Judo 6-10 x week	Randori Training 5 x week
							Healthy Life Style	Healthy Life Style
FUNDamentals	L2T Learn to Train		T2T Train to Train		T2C Train to Compete		T2W Train to Win	
U8	Fundamentals	Intro to Competition 5 x year	Coordination and Speed	Intro to Tactical Training	Intro to Tactical Training			
Fundamentals	Coordination and Speed	Coordination and Speed	Intro to Mental Training	Mental Training	Mental Training			
Daily Physical Activity	Daily Physical Activity	Daily Physical Activity	Intro to Cross Training	Cross Training 3 x week	Cross Training 3 x week			
Judo or Any Other Sport	Judo 2 x week	Judo 2-3 x week	Judo 3 x week	Judo 4-5 x week	Judo 4-5 x week			
Healthy Life Style	Healthy Life Style	Healthy Life Style	Healthy Life Style	Healthy Life Style	Healthy Life Style			



LTAD-LONG TERM ATHLETE DEVELOPMENT MODEL 运动员长期发展模型



Long-Term Athlete Development



Instruction

Assistant Instructor
(Inst-Beg)

Asst Ins
(Inst-Beg)

Competition

Instructor
(Comp-Int)

Performance Coach
(Comp-Dev)

HP
(C-HP)

There's More to Coaching.
L'entraînement, c'est plus qu'on l'pense

Programme
national de
entraîneurs



National
Coaching
Certification
Program

Coaching
Association
of Canada



Association
canadienne
des entraîneurs



LTAD-LONG TERM ATHLETE DEVELOPMENT MODEL

运动员长期发展模型

Taekwondo System Matrix

Stage	Active Start			Fundamentals				Learn to Train			Train to Train				Train to Compete		Learn to Win	Train to Win	Active For Life
Male Age	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18+	18 -21+	> 21	All Ages
Female Age		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17+	17 – 21+	> 19	
Training Age <small>(Years in Taekwondo)</small>	0-3 Years			0-4 Years				2-6 Years			4-8 Years				6-12 Years		8-14 Yrs	10-18 Yrs	Varies
NCCP Contexts	Assistant Instructor Instructor – Beginners				Instructor Competition Introduction				Performance Coach – Comp-Dev Olympic Coach - Comp - HP										
Benchmarks	Colour belt			Colour Belt				Black Belt / 1 st poom			Top 20% Provincial Championships				Top 20% National Championships		Top 20% International	Podium	Personal Best
Emphasis	Fun activity			Fun and Discipline				Learning the game			Playing the Game				Competing		Performing	Defeating	Fun and Learning
Philosophy	Start dreaming			Dream to have fun				Dream to Learn			Dream to Train				Dream to compete		Dream to win	Realize Dreams	Dream for life
Behavior	Simple dojang rules Introduce good etiquette			Safety Learn to Listen				Safety Self Control and respect			Self confidence and respect				Hard work, self-discipline and commitment		Believe in ability	Perform on demand	Commitment and Self control
Technical Emphasis	Basic / Stances / Punches / Kick			Basic Stances / Punches / Kicks				Defensive Skills: Safe / Block / Counter Attacking Skills: Targeting (Single and Multiple)			Consolidate skills and develop advanced skills				Expand repertoire of all combative techniques		Refine basic and advanced technique.	Refine all techniques	Varies
Tactical Emphasis	None			Simple attack and defense strategies				Timing and Distance Strategies for attack and defense			Game Management Develop individual style				Expand repertoire of Strategies Enhance individual styles		Specialization in attack and defense strategies	Refine winning strategies	Varies
Physical Emphasis	Motor Skill (ABC's) Movement Skills (Run / Jump)			Motor Skills – ABC - Reaction time. Movement Skills (Twist / Run / Jump)				Flexibility Introduce Speed ? Stamina ? Monitor Growth			Speed Stamina (? & ?) Introduce Strength Monitor Growth				Optimize Fitness Strength		Optimize	Optimize	
Windows of Trainability				←←Suppleness→→ ←Speed 1→				←←Skills→→			←←Stamina→→ ←Speed 2 ? → ←Speed 2 ? →				←←Strength→→→→		←←Optimize / Refine→→		
Mental Emphasis	Listen			Focus Understand rules of dojang				Concentration Understand rules of game			Develop basic mental skills				Emphasize mental skills		Develop mental toughness	Mental confidence	Concentrate
Competition Level	None			Club				Club and Regional			Regional and Provincial				National		International	International	Club, regional, National



LTAD-LONG TERM ATHLETE DEVELOPMENT MODEL

运动员长期发展模型

Competition Structure

Stage		Active Start		Fundamentals				Learn to Train			Train to Train			Train to Compete			Learn to Win	Train to Win	Active For Life	
Male Age		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18+	18 -21+	> 21	All Ages
Female Age		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17+	17 - 21+	> 19		
Training Age (Years in Taekwondo)		0-3 Years			0-4 Years				2-6 Years			4-8 Years			6-12 Years		8-14 Yrs	10-18 Yrs	Varies	
NCCP Contexts		Assistant Instructor Instructor – Beginners				Instructor Competition Introduction				Performance Coach – Comp-Dev Olympic Coach - Comp - HP				Instructor Comp-Int						
Performance Stream	Divisions	Poom D				Poom C			Poom B			Poom A		Senior		See Recreation Stream				
	Age Range	10 and Under				11 – 12			13 – 14			15 – 17		15 and over						
	Birthdate	Dec 31				Dec 31			Dec 31			Dec 31		Dec 31						
	Minimum Belt	Black				Black			Black			Black		Black						
	Rounds	3				3			3			3		3						
	Duration (sec)	45				60			90			120		120						
	Rest (sec)	45				60			60			60		60						
	Equipment	Instep Footpads				Instep Footpads			Instep Footpads											
	Head Contact	None				None			WTF Rules "One Point Head"			WTF Rules		WTF Rules						
	Tournament Format	Round Robin				Round Robin Double elimination			Single or Double Elimination			Single or Double Elimination								
Max. Level	Regional / Provincial				Eastern / Western			National			Junior International		Senior International							
Recreation Stream	Divisions	Division D				Division C			Division B			Division A		Senior						
	Age Range	10 and Under				11 – 12			13 – 14			15 – 17		18+	18+	40+				
	Birthdate	Dec 31				Dec 31			Dec 31			Dec 31		Dec 31						
	Minimum Belt	Coloured				Coloured			Coloured			Coloured	Red Up	<Red	>Red	>Red				
	Rounds	2				2			2			2	2	2	2	2				
	Duration (sec)	45				60			90			90	90	90	90					
	Rest (sec)	45				60			60			60	60	60	60					
	Equipment	Instep Footpads				Instep Footpads			Instep Footpads			Instep Footpads		Instep Footpads						
	Head Contact	None				None			None			None	WTF	None	WTF	None				
	Tournament Format	Round Robin				Round Robin Double elimination			Single or Double Elimination			Single or Double Elimination		All types						
Max Level	Regional				Regional			Provincial			Provincial		National							
Weight Classes	Division	Poom D		Poom C		Poom B		Poom A		Olympic		Senior								
	Sex	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female							
	Fin	<20 kg	<18 kg	<27 kg	<30kg	<39 kg	<38 kg	<45 kg	<42 kg			<54 kg	<47 kg							
	Fly	20-24	18-22	27-31	30-33	39-43	38-42	45-48	42-44	<58 kg	<49 kg	54-58	47-51							
	Bantam	24-28	22-26	31-35	33-36	43-47	42-46	48-51	44-46			58-62	51-55							
	Feather	28-32	26-30	35-39	36-40	47-51	46-50	51-55	46-49	58-68	49-57	62-67	55-59							
	Light	32-35	30-33	39-42	40-44	51-54	50-53	55-59	49-52			67-72	59-63							
	Welter	35-38	33-36	42-45	44-48	54-57	53-56	59-63	52-55	68-80	57-67	72-78	63-67							
	Light Middle	38-42	36-40	45-49	48-52	57-61	56-60	63-68	55-59											
	Middle	42-46	40-44	49-53	52-57	61-65	60-64	68-73	59-63			78-84	67-72							
	Light Heavy	46-50	44-48	53-57	57-62	65-69	64-68	73-78	63-68	>80	>67									
	Heavy	>50	>48	>57	>62	>69	>68	>78	>68			>84	>72							



LTAD-LONG TERM ATHLETE DEVELOPMENT MODEL

运动员长期发展模型

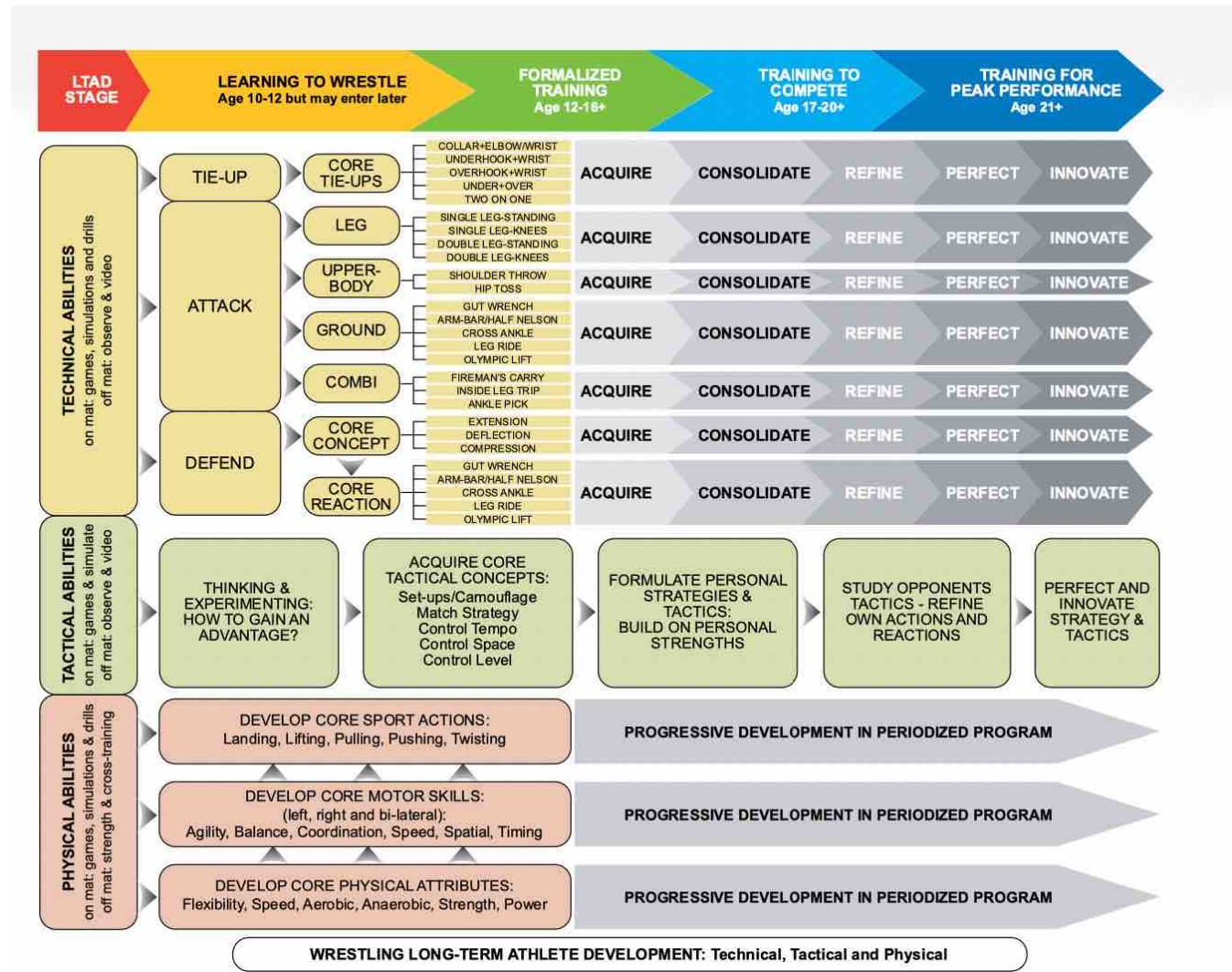
Planning Considerations

Stage	Active Start			Fundamentals				Learn to Train			Train to Train			Train to Compete			Learn to Win	Train to Win	Active For Life	
Male Age	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18+	18 -21+	> 21	All Ages	
Female Age		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17+	17 – 21+	> 19		
Training Age (Years in Taekwondo)	0-3 Years			0-4 Years				2-6 Years			4-8 Years			6-12 Years			8-14 Yrs	10-18 Yrs	Varies	
NCCP Contexts	Assistant Instructor Instructor – Beginners				Instructor Competition Introduction				Performance Coach – Comp-Dev Olympic Coach - Comp - HP				Instructor Comp-Int							
TKD Sport %	10			25				55			80			90			95	95	15	
TKD Martial Art %	90			75				45			20			10			5	5	85	
Emphasis	Skill %				35				40			30			35			30	30	30
	Stamina %				10				10			20			20			20	20	15
	Speed %				15				15			20			15			20	25	10
	Strength %				10				10			20			20			20	20	15
	Suppleness %				30				25			10			10			10	5	30
Skill Emphasis	ABC %				35				20			10			5			5	5	20
	Stances/Steps				15				15			15			15			15	15	20
	Blocking %				10				10			5			5			5	5	10
	Hand Strikes %				10				5			5			5			5	5	10
	Foot Strikes %				20				30			40			30			25	20	25
Attack & Defense %				10				20			25			40			45	50	15	
Practices / week – TKD specific	1 – 2			2 - 3				2 – 3			3 - 4			4 – 6			6 - 8	8 - 10	2 – 3	
Practice Length TKD Specific	30 - 45 minutes			45 - 60 minutes				60 - 75 minutes			75 - 100 minutes			90 – 120 minutes			100-150 minutes	100-150 minutes	75-100 minutes	
Practices / week Str & Cd / other				Engage in a variety of other activities for enjoyment 3-5 times / week							1-2 + other activity			2-3			3-4	3-4	Other activities for enjoyment	
Practice Length Str & Cd / other				30-75 minutes							<90 min + other activity			<90 min			<90 min	<90 min		
Volume / Week TKD	40-75 minutes			1.5 - 3 Hours				2 - 3.75 Hours			3.75 – 6.6 Hours			6 – 12 Hours			10-20 Hours	13.3-25 Hours	2.5 – 5 Hours	
Avg Total Volume / week (all activity)	4.5 hrs			6 hours				7.5 hours			10 hours			12.5 hours			19 hours	23 hours	9 hours	
Fights / Year	0-6			6-10				8-15			10-20			15-25			20-30	26-36	0-15	
Physical Testing																				
Belt Testing																				



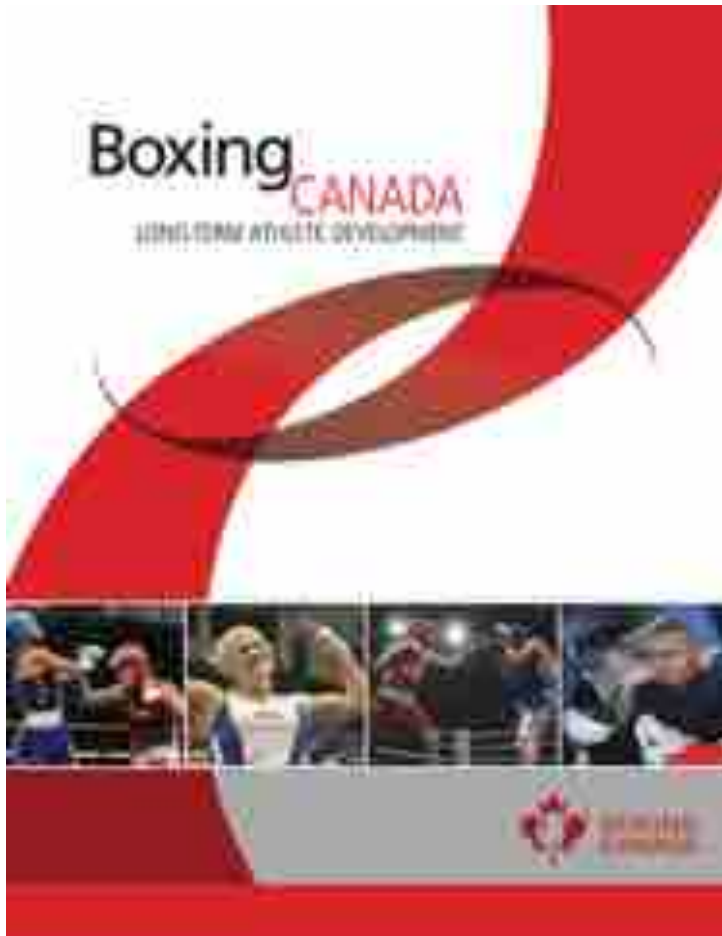
LTAD-LONG TERM ATHLETE DEVELOPMENT MODEL

运动员长期发展模型





LTAD-LONG TERM ATHLETE DEVELOPMENT MODEL 运动员长期发展模型



STAGE 1 - Active Start Boys and girls, 6 to 8 years old
Introduction to the sport through exposure to an adult role model. The program must include fun and recreational activities, fundamental skills, and a focus on participation. The program should be enjoyable and provide a positive experience for the child. The program should be designed to be fun and provide a positive experience for the child.
STAGE 2 - FUNdamentals Boys 9 to 11 years old Girls 9 to 11 years old
Program emphasis on general athletic development. The program should include fundamental skills, fun and recreational activities, and a focus on participation. The program should be enjoyable and provide a positive experience for the child. The program should be designed to be fun and provide a positive experience for the child.
STAGE 3 - Learn to Train Boys 12 to 14 years old Girls 12 to 14 years old
Focus on a variety of activities that develop fundamental skills and techniques. The program should include fun and recreational activities, and a focus on participation. The program should be enjoyable and provide a positive experience for the child. The program should be designed to be fun and provide a positive experience for the child.
STAGE 4 - Train to Train Boys 15 to 16 years old Girls 15 to 16 years old
Focus on developing specific skills and techniques. The program should include fun and recreational activities, and a focus on participation. The program should be enjoyable and provide a positive experience for the child. The program should be designed to be fun and provide a positive experience for the child.
STAGE 5 - Train to Compete Boys and young men 17 to 22 years old Girls and young women 17 to 22 years old
Developing the athlete's ability to compete at a high level. The program should include fun and recreational activities, and a focus on participation. The program should be enjoyable and provide a positive experience for the child. The program should be designed to be fun and provide a positive experience for the child.
STAGE 6 - Train for Peak Performance Men and Women 23 years old to senior
Focus on developing the athlete's ability to compete at the highest level. The program should include fun and recreational activities, and a focus on participation. The program should be enjoyable and provide a positive experience for the child. The program should be designed to be fun and provide a positive experience for the child.
STAGE 7 - Active for Life Men and Women participants of all ages
Focus on maintaining the athlete's ability to compete at a high level. The program should include fun and recreational activities, and a focus on participation. The program should be enjoyable and provide a positive experience for the child. The program should be designed to be fun and provide a positive experience for the child.

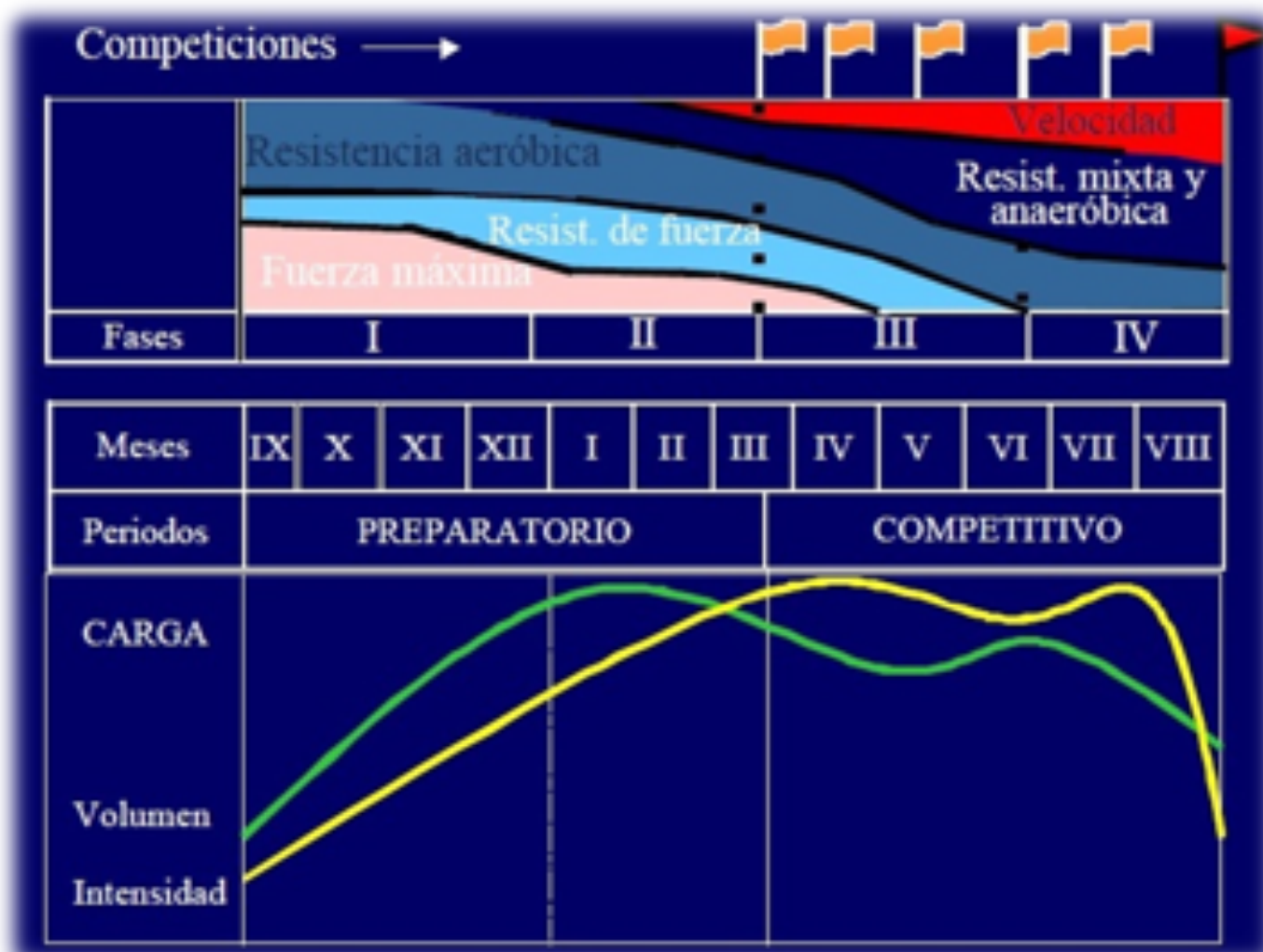


- Competitions schedule
- Long-term strategy
- Different adaptation



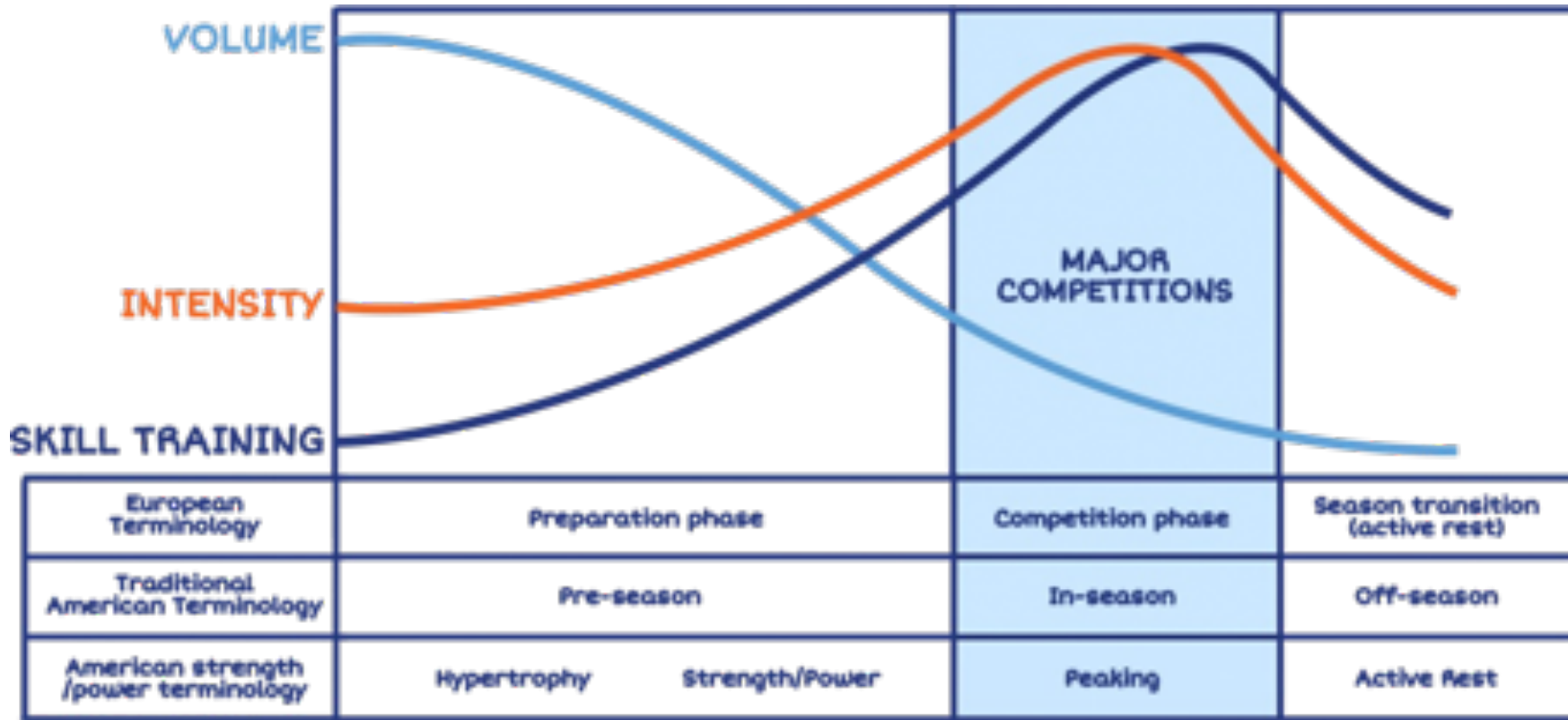


TRADITIONAL PERIODIZATION 传统周期





TRADITIONAL PERIODIZATION 传统周期

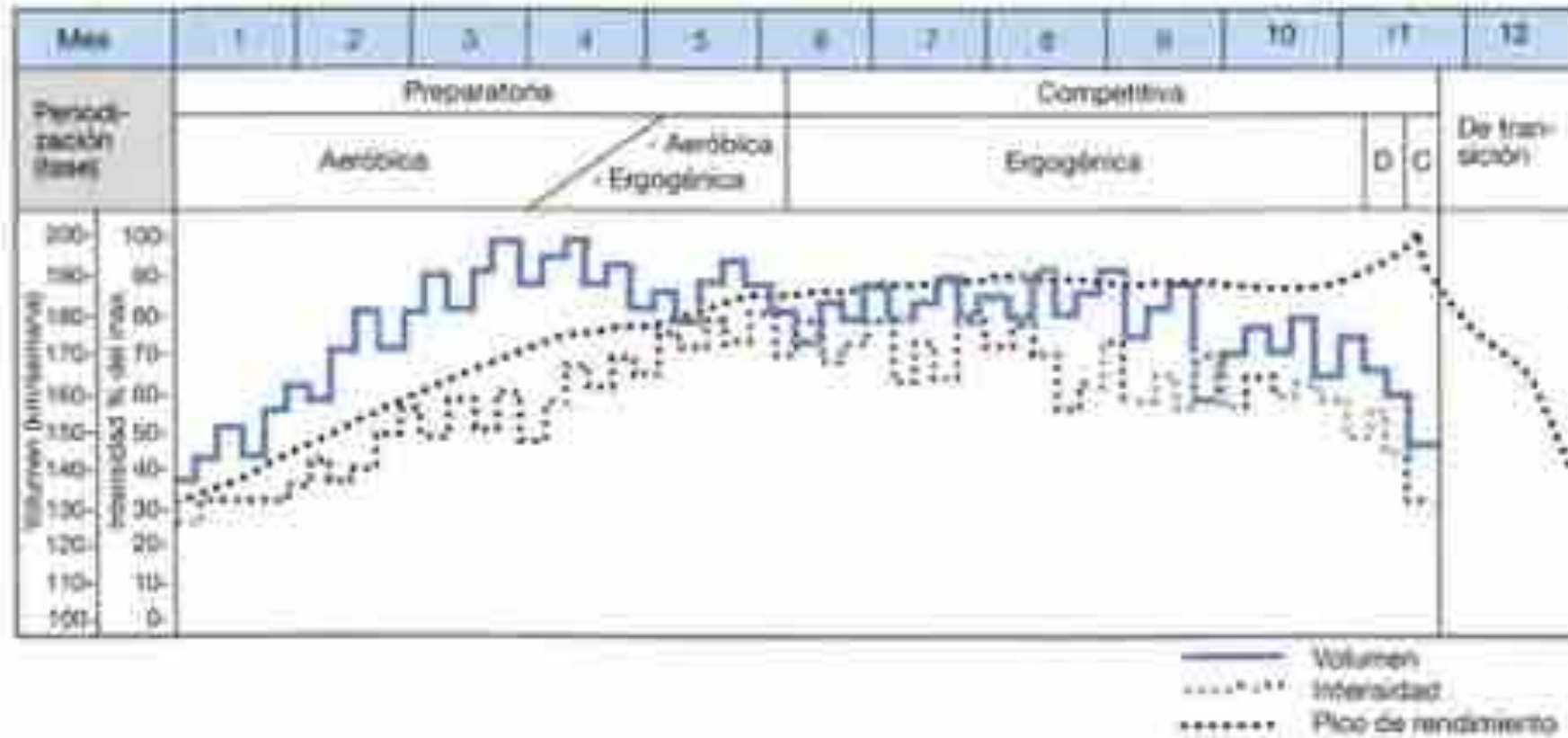




TRADITIONAL PERIODIZATION 传统周期

➡ Annual plan based on a monocycle

CHINA CHAMPIONSHIP





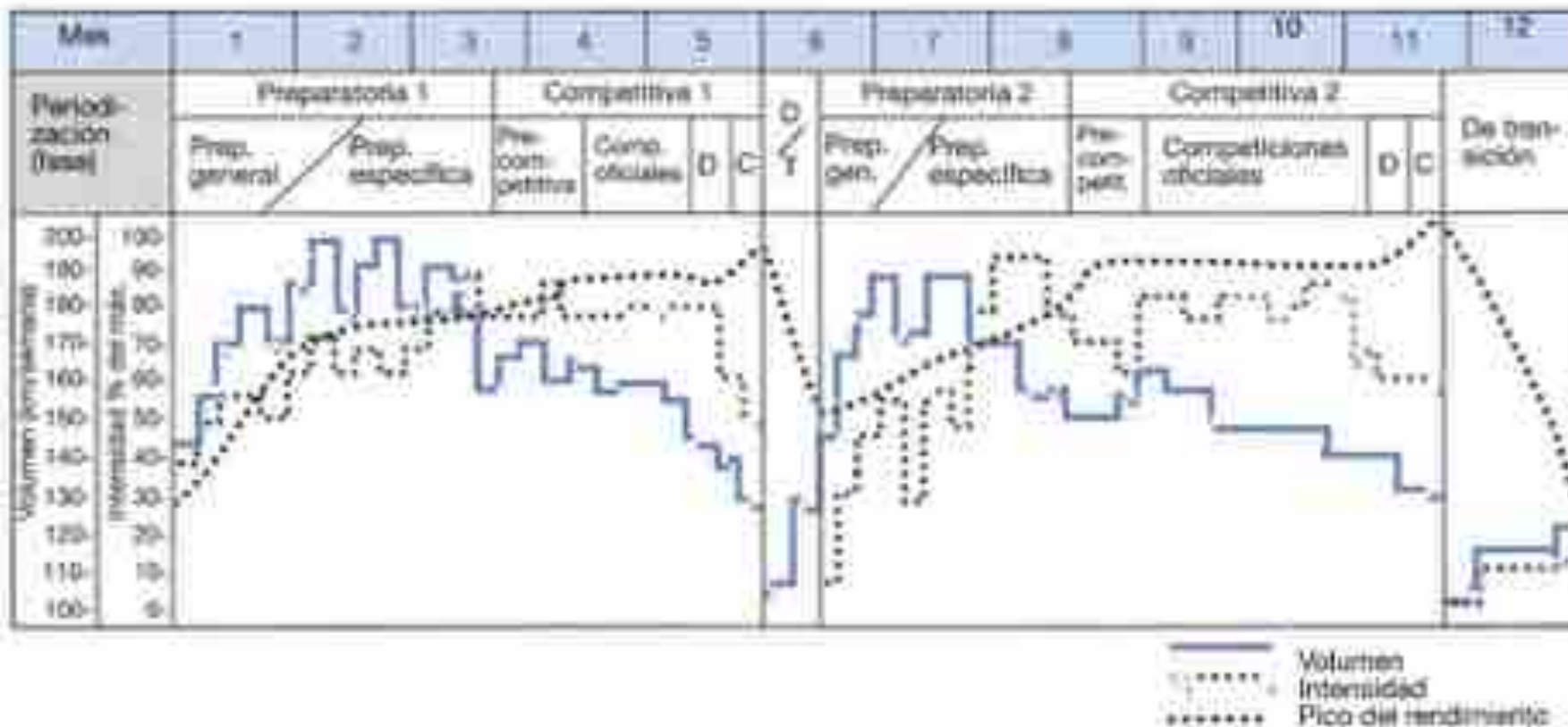
TRADITIONAL PERIODIZATION 传统周期

➔ By-cycle plan

CHINA CHAMPIONSHIP



ASIAN GAMES





TRADITIONAL PERIODIZATION 传统周期

➔ Annual training plan with tri-cycle structure

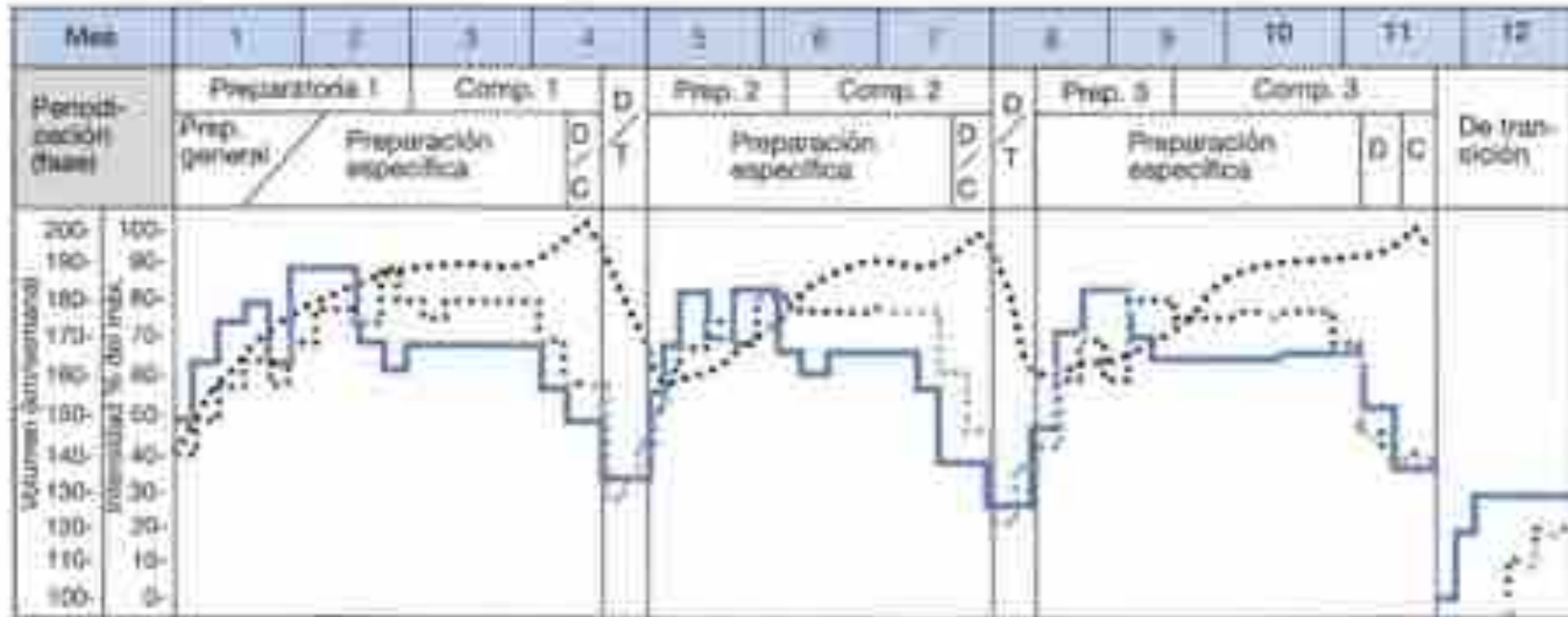
CHINA CHAMPIONSHIP



ASIAN GAMES



WORLD CHAMPIONSHIP



— Volumen
 Intensidad
 Pico de rendimiento



TRADITIONAL PERIODIZATION 传统周期

➡ Graphic design 图形设计



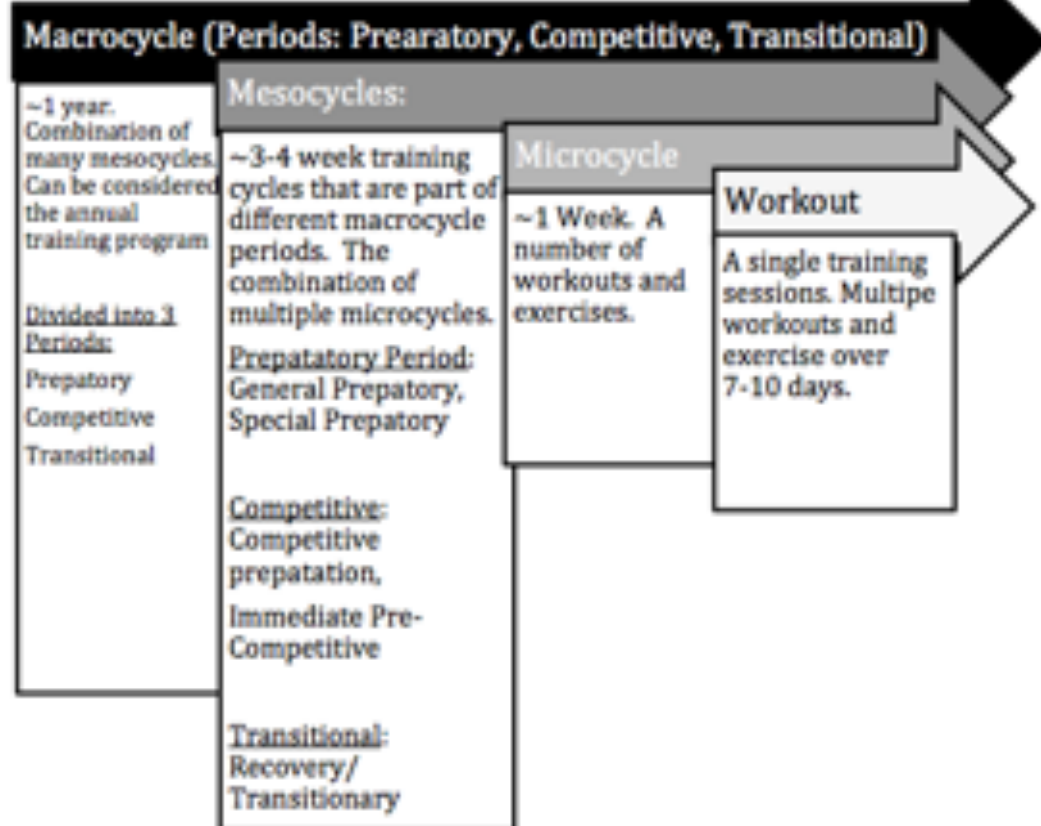
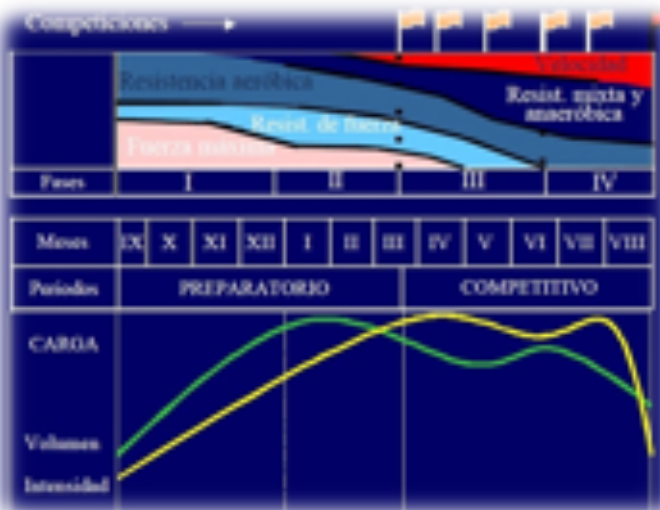


TRADITIONAL PERIODIZATION 传统周期

➔ MACROCICLE

Concept

Long training cycle(3-12 months) that include one competition phase





TRADITIONAL PERIODIZATION 传统周期

➡ PREPARATORY PHASE: GENERAL PREPARATORY SUB-PHASE

The general preparatory subphase is used to elevate the athlete's working capacity, increase general physical preparation, improve technical elements, and enhance basic tactical abilities. The primary emphasis of this subphase is to establish a high level of physical conditioning, which will improve the athlete's physiological and psychological capacity to tolerate the demands of both training and competition.





TRADITIONAL PERIODIZATION 传统周期

➡ PREPARATORY PHASE: SPECIFIC PREPARATORY SUB-PHASE

The specific preparatory subphase, or the second part of the preparatory phase, represents a transition from an emphasis on physical development to an emphasis on competition. Like the general preparatory subphase, the specific preparatory subphase has the objective of increasing the athlete's working capacity. However, in this subphase the emphasis in training is on sport-specific activities. Although the volume of work is high during this subphase, the primary emphasis (70-80% of total work) is on specific exercises related to the skills or technical elements of the sport.





TRADITIONAL PERIODIZATION 传统周期

➡ COMPETITIVE PHASE

Among the main tasks of the competitive phase is the perfection of all training factors, which enables the athlete to compete successfully in the main competitions or championships targeted by the annual training plan. Several general objectives are addressed during the competitive phase, regardless of the sport:

- Continued improvement or maintenance of sport-specific biomotor abilities
 - Enhancing psychological traits
 - Perfecting and consolidating technique
 - Elevating performance to the highest level
 - Dissipating fatigue and elevating preparedness
- Perfecting technical and tactical maneuvers
 - Gaining competitive experience
 - Maintaining sport-specific fitness



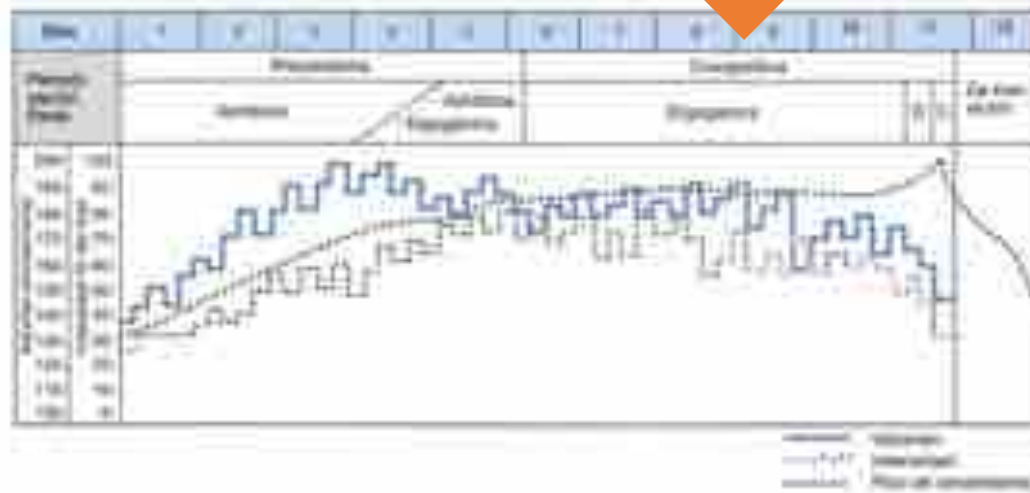


TRADITIONAL PERIODIZATION 传统周期

COMPETITIVE PHASE

Fase de entrenamiento	Fase competitiva																											
Fechas	Agosto					Septiembre					Octubre					Noviembre					Diciembre							
	1	8	15	22	29	5	12	19	26	3	10	17	24	31	7	14	21	28	4	11	18	25						
Macro ciclos	7					8					8					11					11							
Programa competitivo	◆		◆			◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	▲					■

- ◆ Competición (menor énfasis)
- ▲ Competición clasificatoria (mayor énfasis)
- Campeonatos (mayor énfasis)





TRADITIONAL PERIODIZATION 传统周期

➡ TRANSITION PHASE

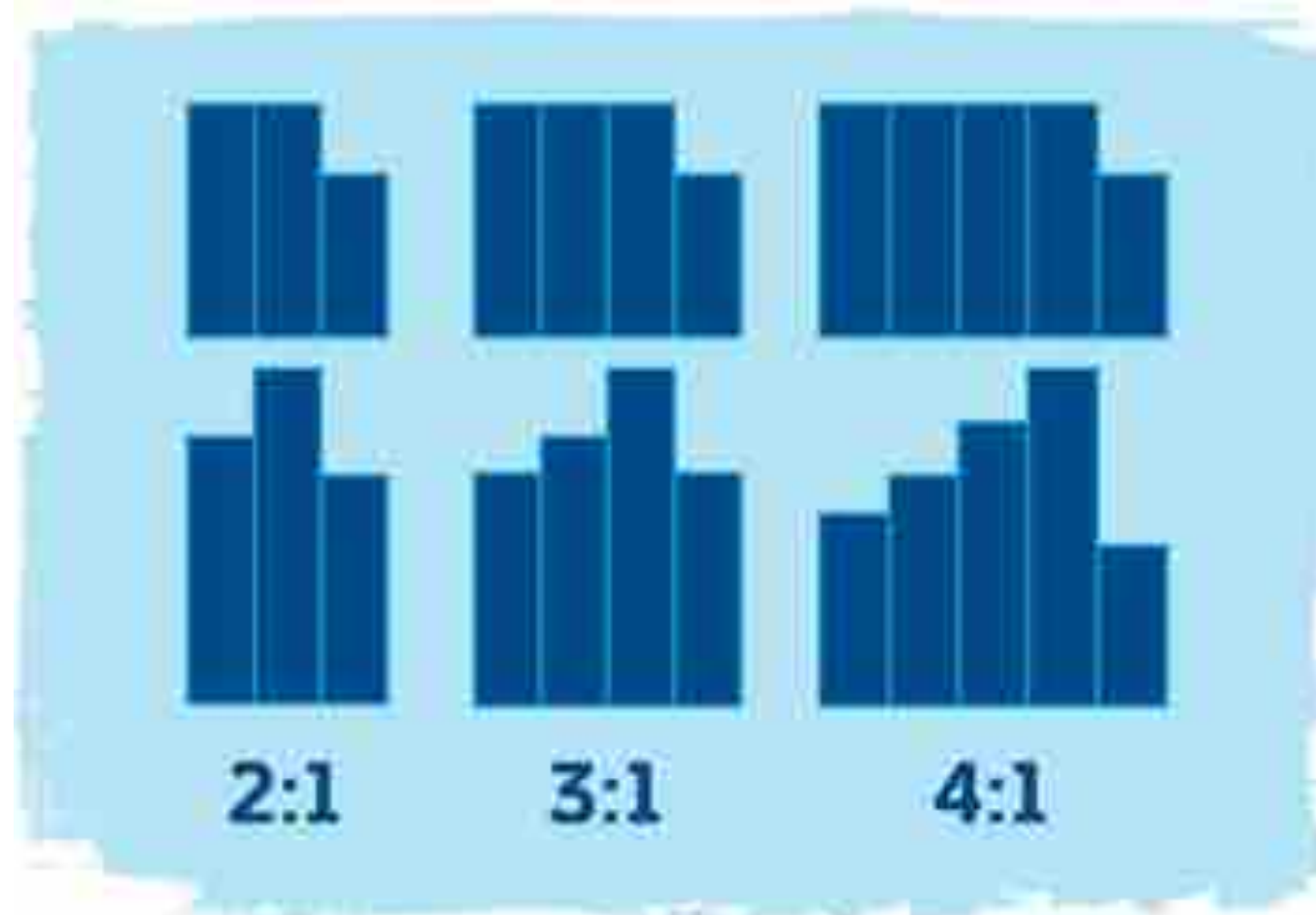
After long periods of preparation, hard work, and stressful competitions, in which both physiological and psychological fatigue can accumulate, a transition period should be used to link annual training plans or preparation for another major competition, as in the case of the bi-cycle, tri-cycle, and multicycle annual training plan. The transition phase serves an important role in preparing the athlete for the next training cycle. The athlete should start the new preparatory phase only when fully recovered from the previous competitive season.





TRADITIONAL PERIODIZATION 传统周期

➔ MESOCYCLES





TRADITIONAL PERIODIZATION 传统周期

➡ MICROCYCLES

TYPES:

- ADJUST (4-7 days)
- CUMULATIVE/DEVELOPMENT (1 week)
- SHOCK/STRIKING (1 week)
- PRE-COMPETITION (3-7 days)
- COMPETITION (3-9 days)
- RECOVERY (3-7 days)

The image shows a complex training plan table with multiple columns and rows. The columns represent days of the week (Monday through Saturday), and the rows represent weeks. Each cell in the table contains detailed information about the training session, including the type of activity, duration, intensity, and specific exercises. There are also some charts and graphs integrated into the table, such as a bar chart showing intensity levels over time. The table is color-coded, with yellow and green highlighting certain sections. The overall layout is dense and detailed, typical of a professional training plan.



TRADITIONAL PERIODIZATION 传统周期

➔ MICROCYCLES



ADJUST

**DEVELOPMENT
SHOCK**

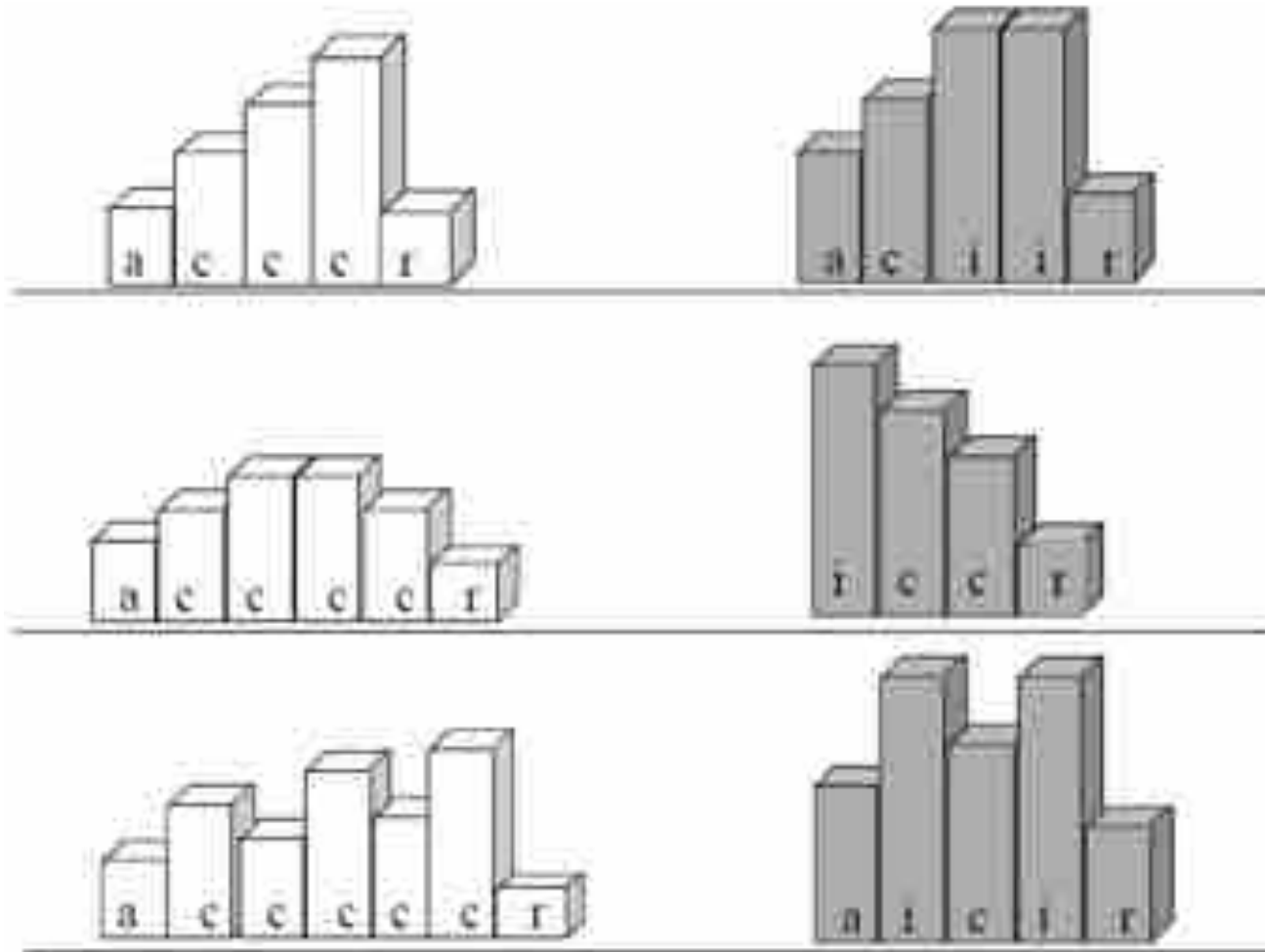
**PRECOMPETITION
COMPETITION**

RECOVERY



TRADITIONAL PERIODIZATION 传统周期

➔ MICROCYCLES





TRADITIONAL PERIODIZATION

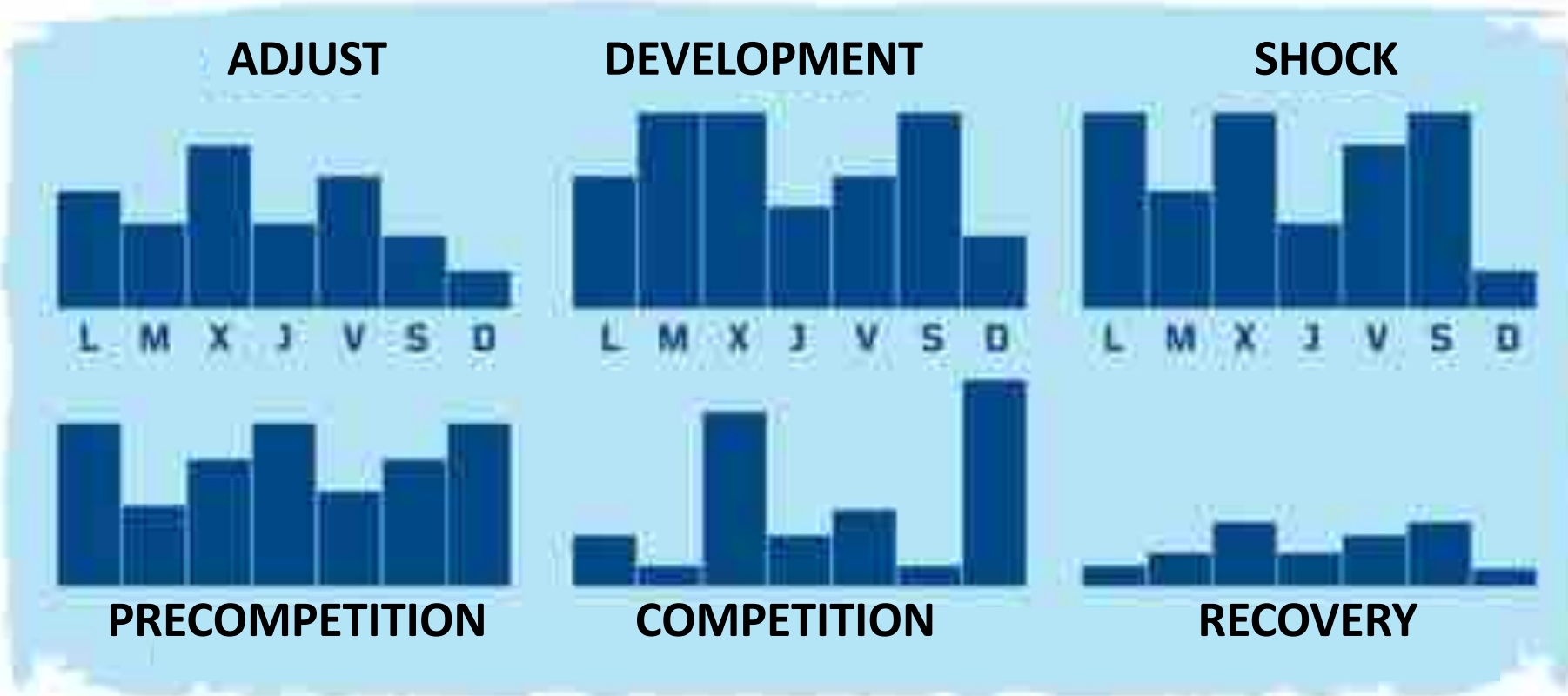
➔ MICROCYCLES

Tipo de microciclo	Numero de microciclos	Numero de dias	Porcentaje de dias
ADJUST	5 - 7	25 - 35	8 - 10
DEVELOPMENT	19 - 21	133 - 147	40 - 46
SHOCK	7 - 10	49 - 70	15 - 21
PRECOMPETITION	5 - 7	25 - 35	8 - 12
COMPETITION	7 - 8	30 - 38	9 - 13
RECOVERY	4 - 6	20 - 28	8 - 12
Total	52 - 56	315 - 335	100



TRADITIONAL PERIODIZATION 传统周期

➔ MICROCYCLES





TRADITIONAL PERIODIZATION 传统周期

➡ MICROCYCLES

Session time	DAY						
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
a.m.							
p.m.	Training		Training		Training		

Session time	DAY						
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
a.m.							
p.m.	Training	Training		Training		Training	

Session time	DAY						
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
a.m.							
p.m.	Training	Training		Training	Training	Training	

Session time	DAY						
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
a.m.	Training	Training		Training		Training	
p.m.	Training	Training		Training		Training	



TRADITIONAL PERIODIZATION 传统周期

➔ MICROCYCLES

Session time	DAY						
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
a.m.	Training	Training	Training	Training	Training	Training	/
p.m.	Training	/	Training	/	Training	/	/

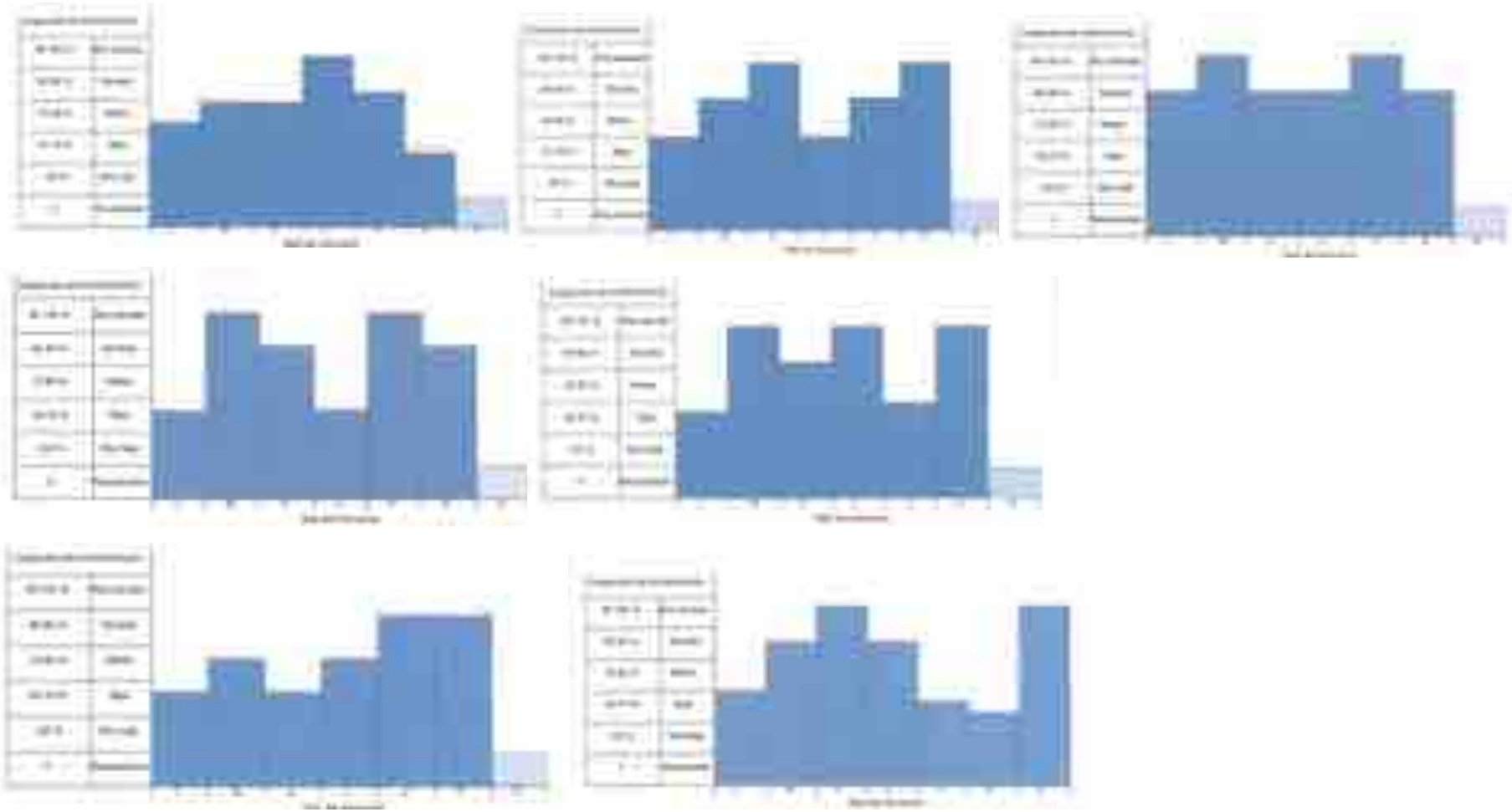
Session time	DAY						
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
a.m.	Training	Training	Training	Training	Training	Training	/
p.m.	Training	Training	/	Training	Training	/	/

Session time	DAY						
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
a.m.	Training	Training	Training	Training	Training	Training	Training
p.m.	Training	Training	/	Training	Training	/	/



TRADITIONAL PERIODIZATION 传统周期

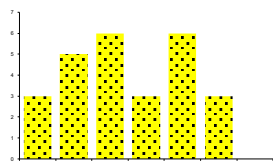
➡ MICROCYCLES



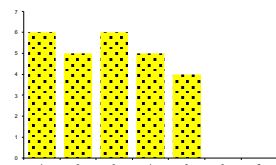


TRADITIONAL PERIODIZATION 传统周期

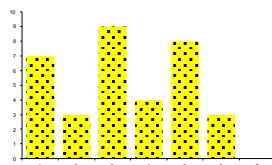
➔ MICROCYCLES



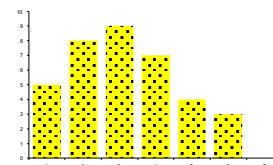
ADJUST



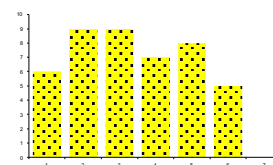
CUMULATIVE



CUMULATIVE



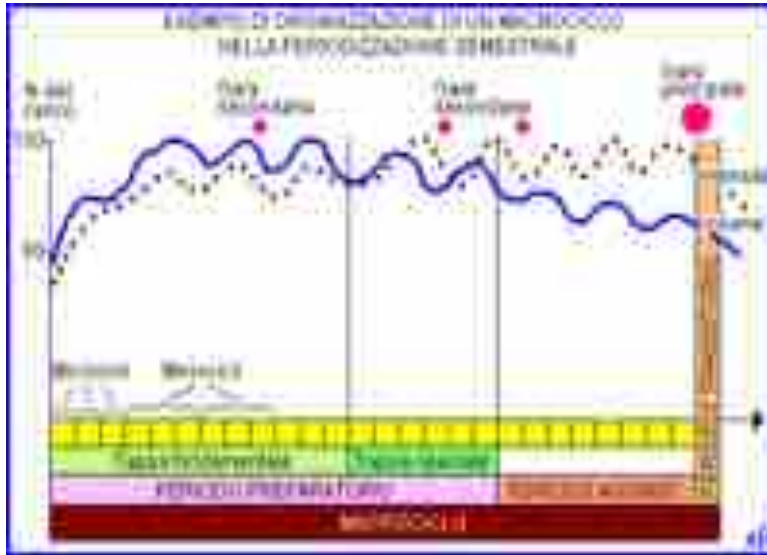
STRIKING



RECOVERY



DISADVANTAGES OF TRADITIONAL PERIODIZATION



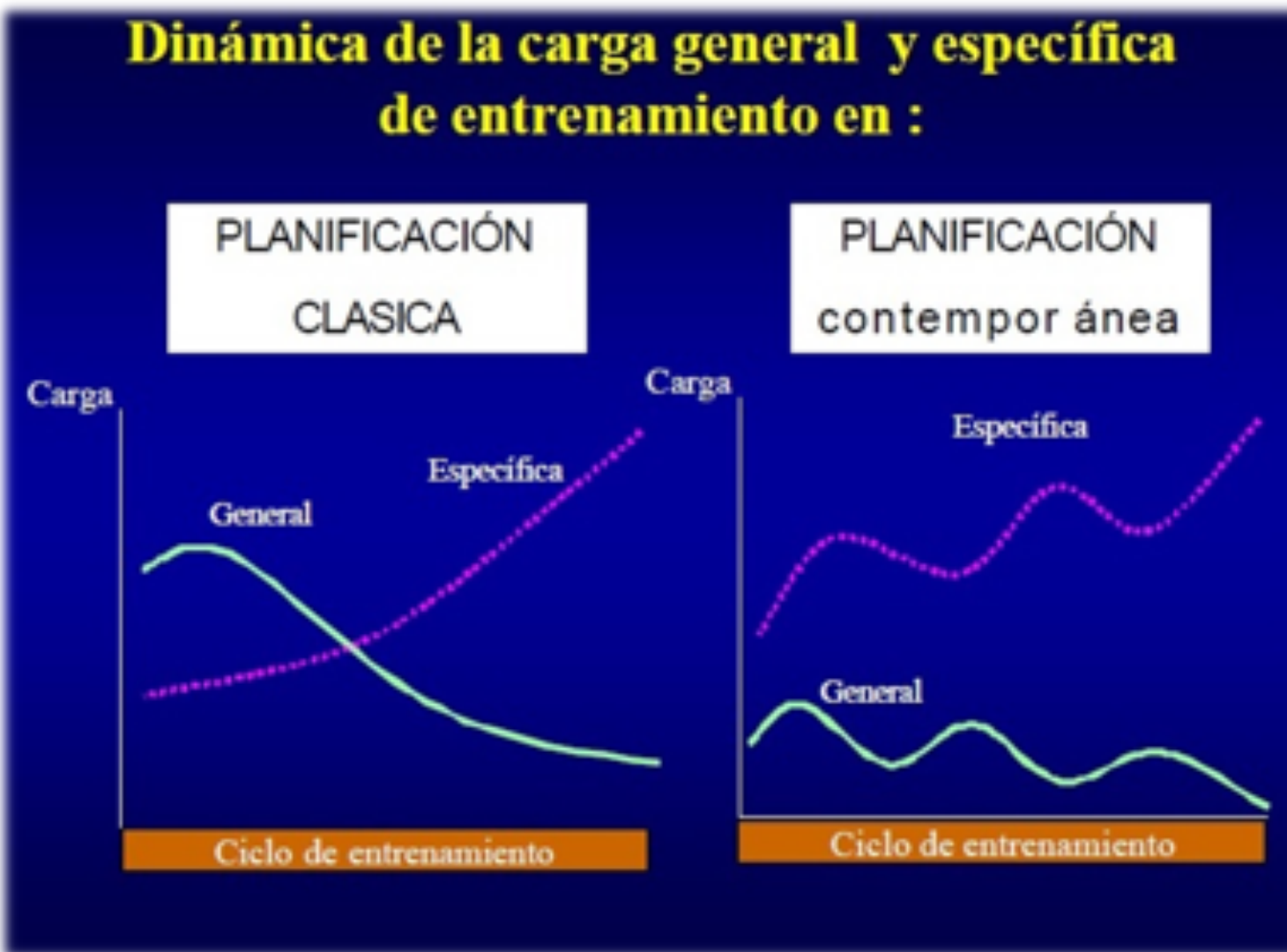
- Develop many capacities at the same time
- Long periods with same training structure, monotony and not much motivating.
- Few opportunities to work on specific capacities during general period
- Limitations to join competition during long part of the season
- Excessive workload
- Accumulate fatigue
- Conflicting physiological responses
- Risk of overtraining



TRADITIONAL PERIODIZATION VS MODERN PERIODIZATION

传统周期和现代周期

Dinámica de la carga general y específica de entrenamiento en :





TRADITIONAL PERIODIZATION VS MODERN PERIODIZATION

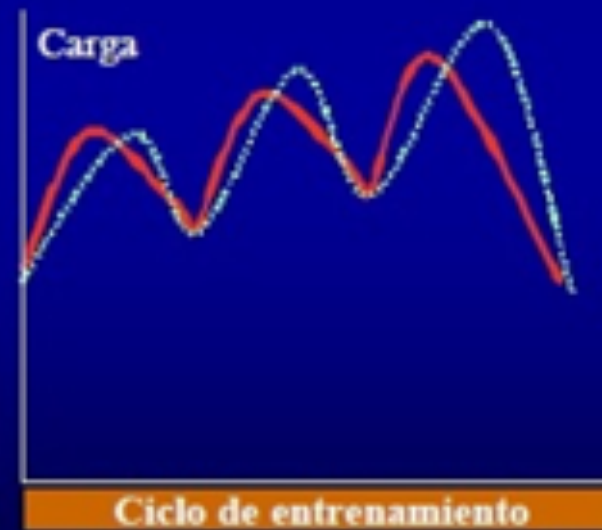
传统周期和现代周期

Dinámica del volumen y la intensidad de la carga de entrenamiento en :

PLANIFICACIÓN CLASICA



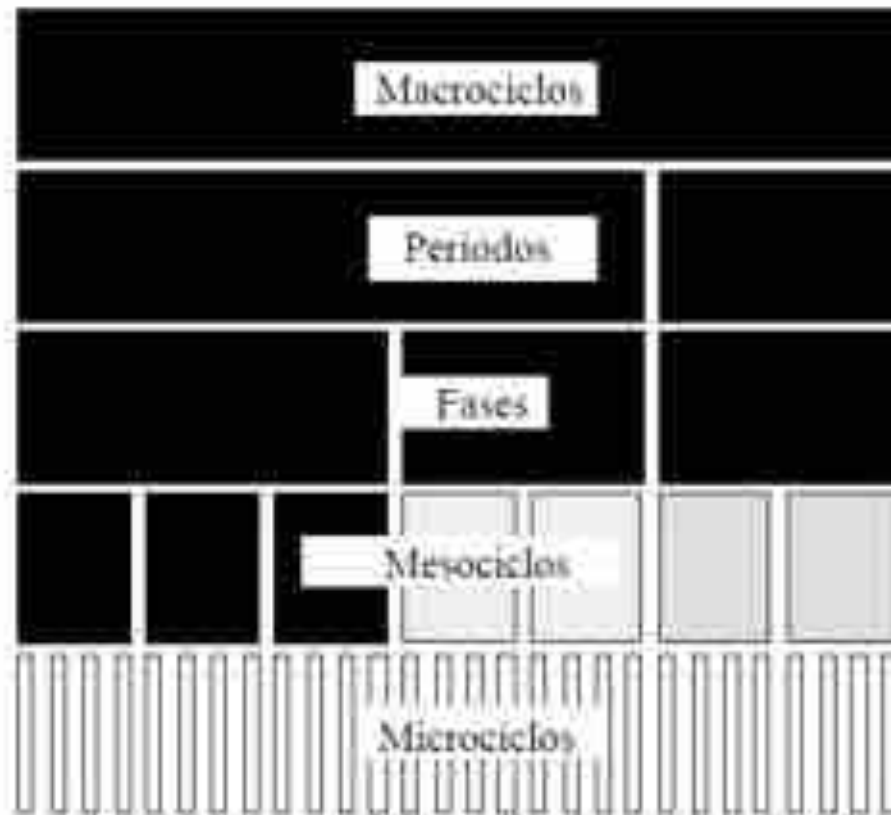
PLANIFICACIÓN CONTEMPORÁNEA



TRADITIONAL PERIODIZATION VS MODERN PERIODIZATION

传统周期和现代周期

Planificación clásica



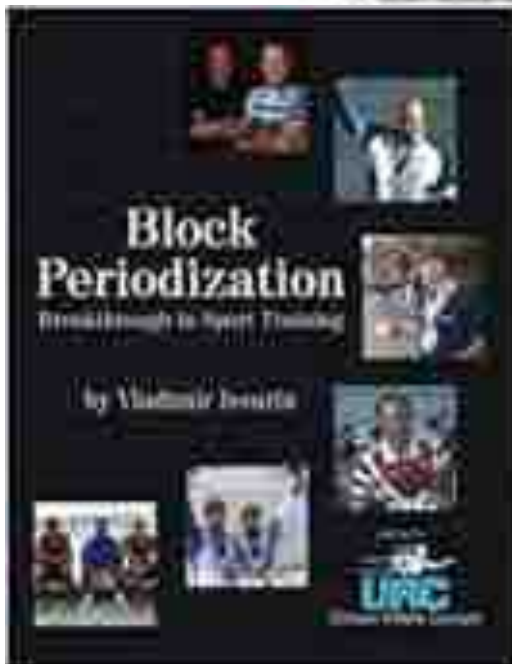
Planificación contemporánea





TRADITIONAL PERIODIZATION VS MODERN PERIODIZATION

传统周期和现代周期





TRADITIONAL PERIODIZATION VS MODERN PERIODIZATION 传统周期和现代周期

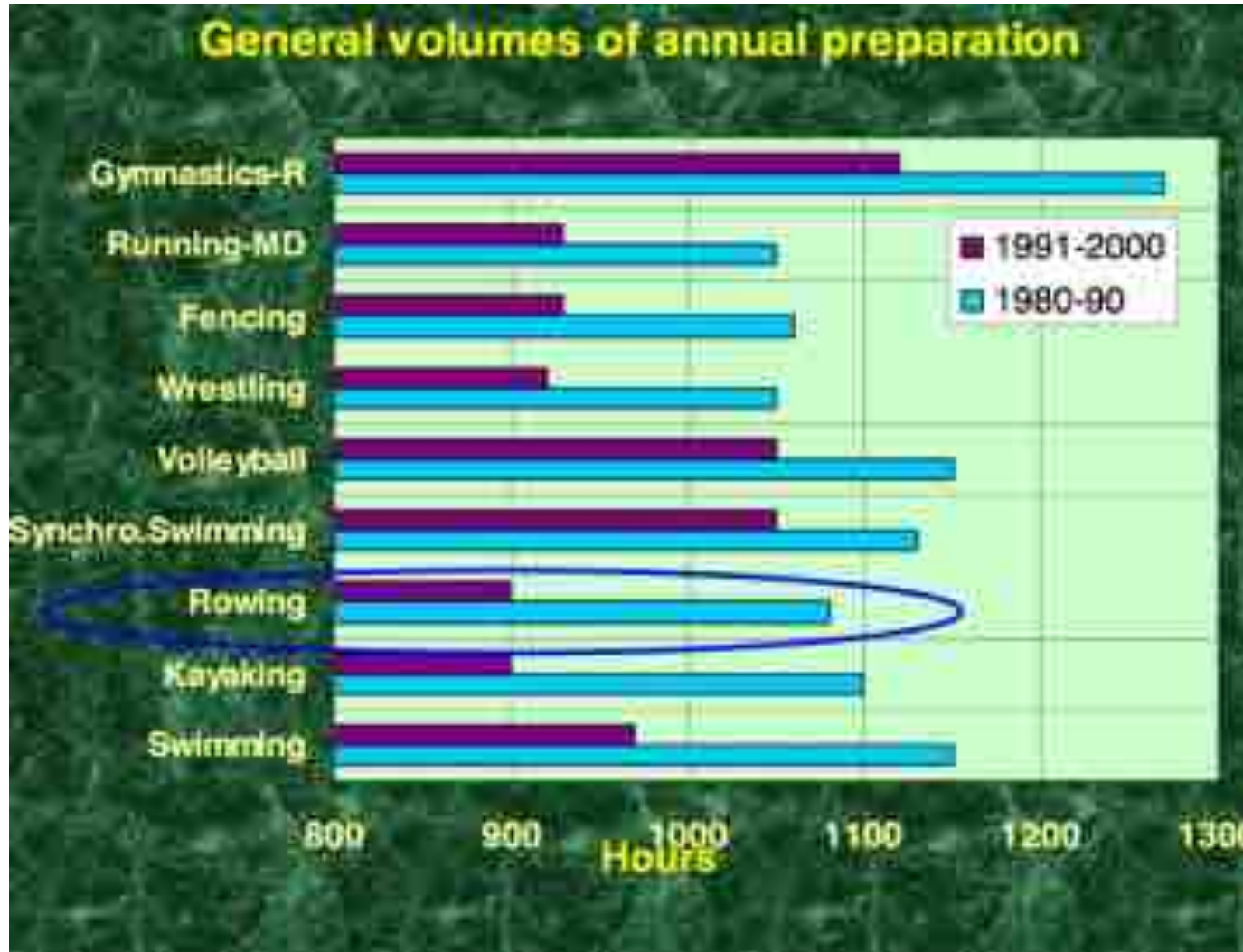
Annual volumes of exercises in endurance sports (thousands km)

	1980-90	1995-2009
Swimming	2.5-3.5	2.0-2.5
Kayaking	5.5-6.3	4.5-5.3
Rowing	6.3-7.3	5.5-6.5
Cycling-R	35-45	30-35



TRADITIONAL PERIODIZATION VS MODERN PERIODIZATION

传统周期和现代周期





TRADITIONAL PERIODIZATION VS MODERN PERIODIZATION

传统周期和现代周期

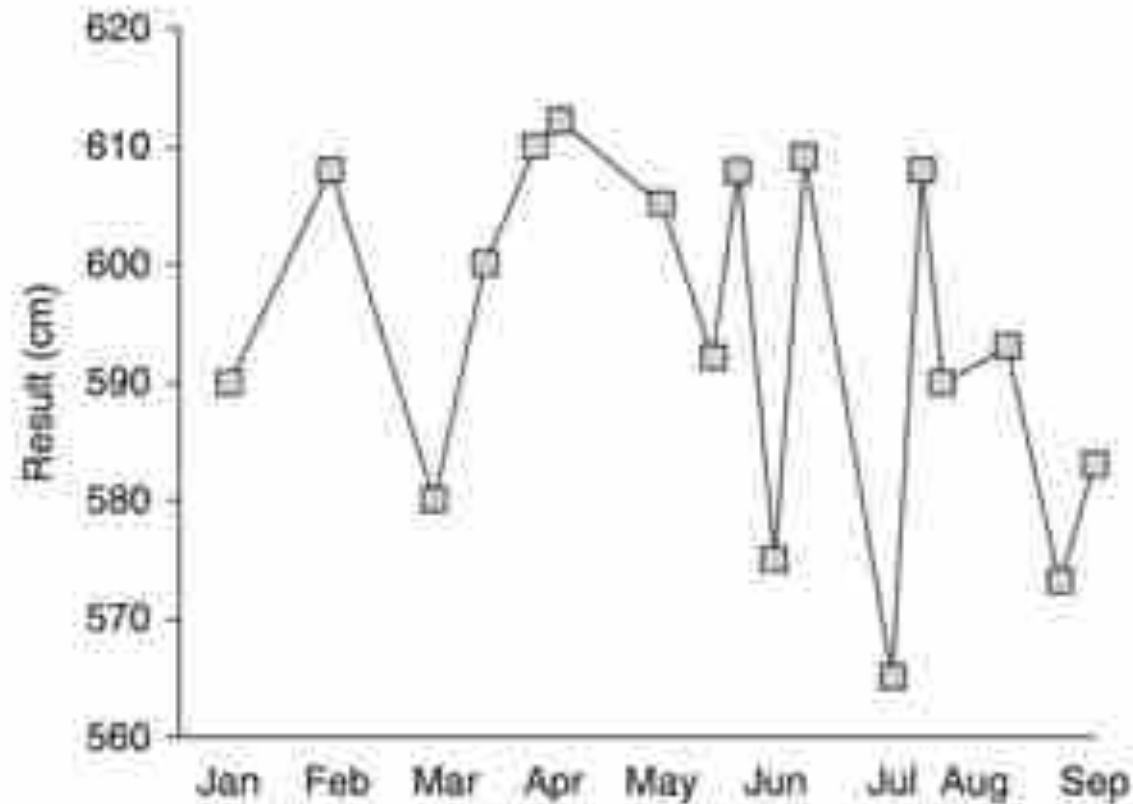
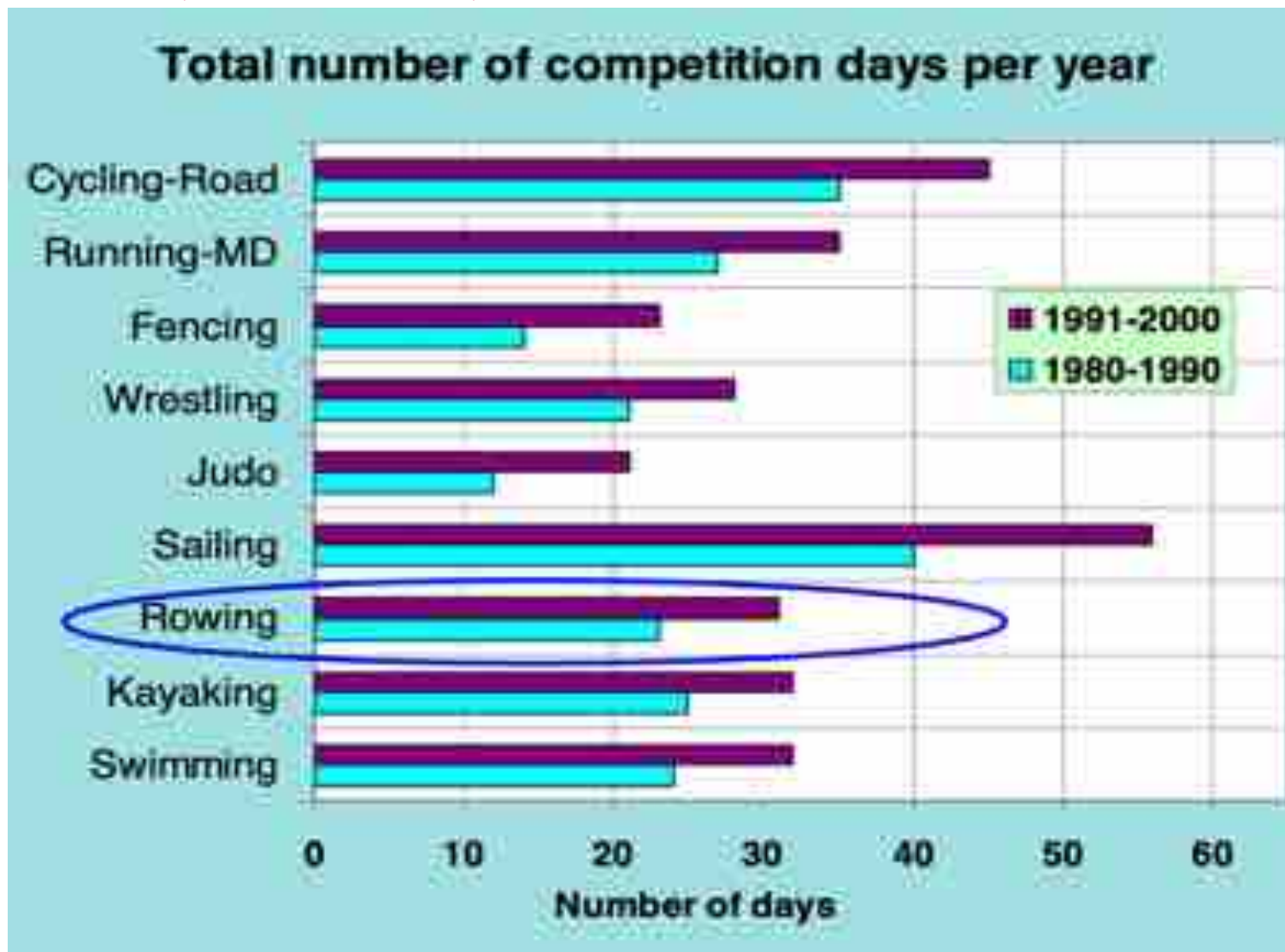


Fig. 4. The annual pole vault performance trend of Sergei Bubka in the 1991 season.^[20]



TRADITIONAL PERIODIZATION VS MODERN PERIODIZATION

传统周期和现代周期





TRADITIONAL PERIODIZATION VS MODERN PERIODIZATION

传统周期和现代周期

Past and Present in High-Performance Training

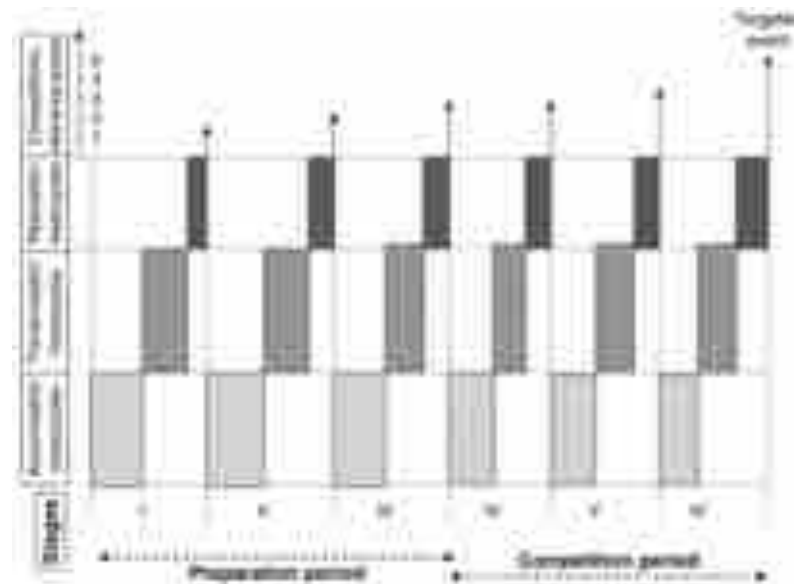
	Past	Present
Competitions	less	more
Total workloads	more	less
Pharmacology	liberal	hard limitation
Development	mainly simultaneous	mainly consecutive



TRADITIONAL PERIODIZATION VS MODERN PERIODIZATION

传统周期和现代周期

- HIGH TRAINING LOAD CONCENTRATION
- RESIDUAL TRAINING EFFECTS
- CONCECUTIVE DEVELOPMENT
- TRAINING BLOCKS TAXONOMY
- PEAKING





TRADITIONAL PERIODIZATION VS MODERN PERIODIZATION

传统周期和现代周期

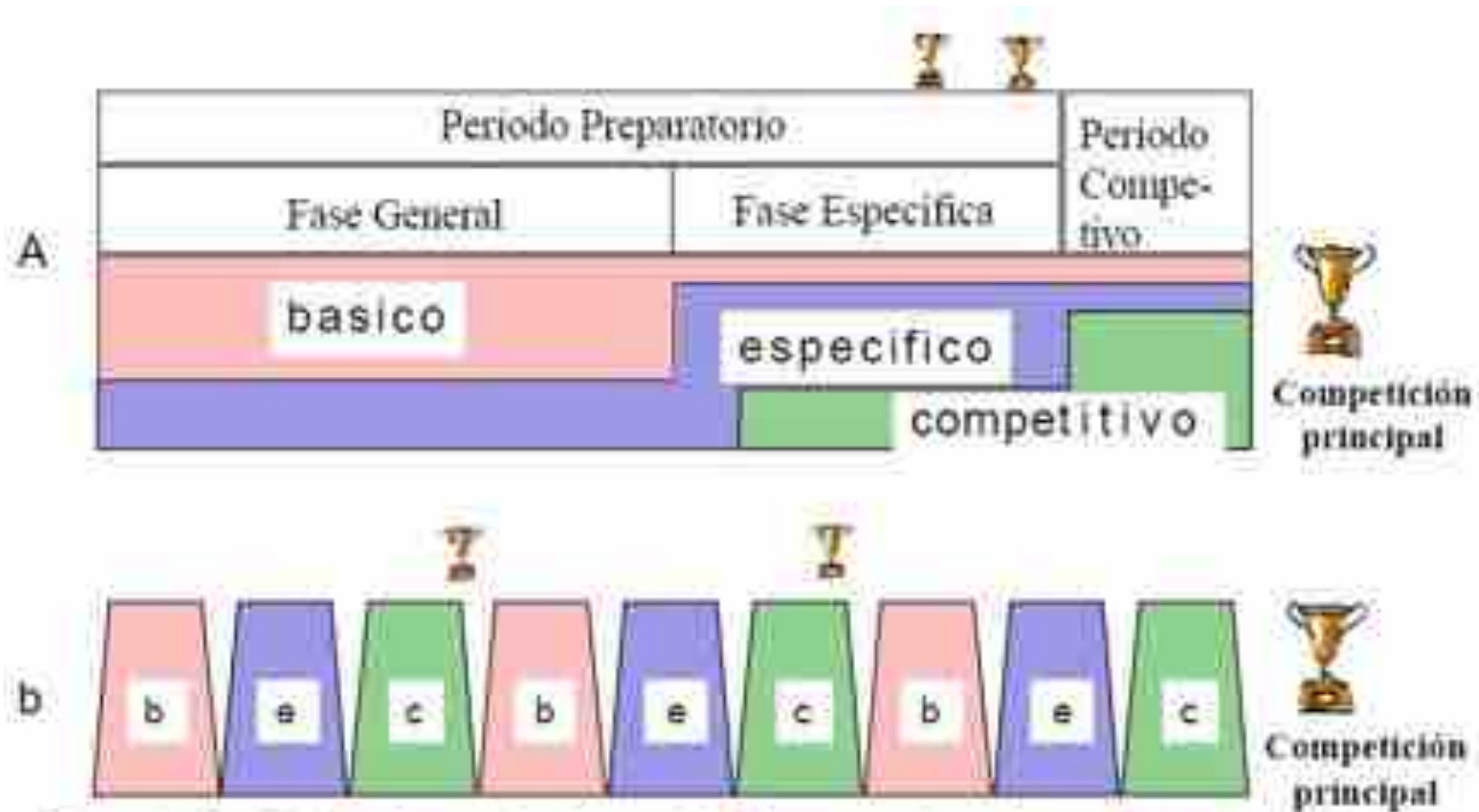


Figura 4. 15- Diseños alternativos de un ciclo de entrenamiento de un año: a) convencional; b) contemporáneo



PERIODIZATION ATR



Figura 4.10. Modelo de periodización del mesociclo correspondiente



Etapas	Objetivos y Métodos aplicados	Características
Acumulación	<p>Desarrollo del potencial técnico y físico</p> <ul style="list-style-type: none"> • trabajar los contenidos técnicos y físicos que forman la base para el progreso específico. • aplicar el concepto de volumen técnico, etc. 	<p>Establecimiento de rutinas, adaptaciones técnicas y capacidad motriz para capacidad de base, desarrollo técnico, preparación física y mental para el momento de la competencia.</p>
Transformación	<p>Transformación del potencial de las capacidades físicas y técnicas en el progreso específico</p> <ul style="list-style-type: none"> • trabajar los contenidos técnicos con preparación en forma específica según los demandas técnicas y físicas. • trabajar la intensidad y la carga y la cantidad de la misma. 	<p>Establecimiento de rutinas técnicas y capacidad motriz para capacidad de preparación física, técnica específica, aplicación conceptual de fuerza física de la estructura de la técnica técnica.</p>
Realización	<p>Uso de las acciones técnicas desde el inicio disponible de progreso</p> <ul style="list-style-type: none"> • utilizar de forma completa como se puede la capacidad técnica, física y técnica desde de la actividad competitiva específica. • obtener la adaptación para la competencia. 	<p>Establecimiento de la actividad competitiva específica competitiva. Máxima de perfil, según el tipo de actividad (fuerza, resistencia, velocidad, resistencia, velocidad competitiva, combinación de estos) de desarrollo competitivo.</p>



PERIODIZATION ATR

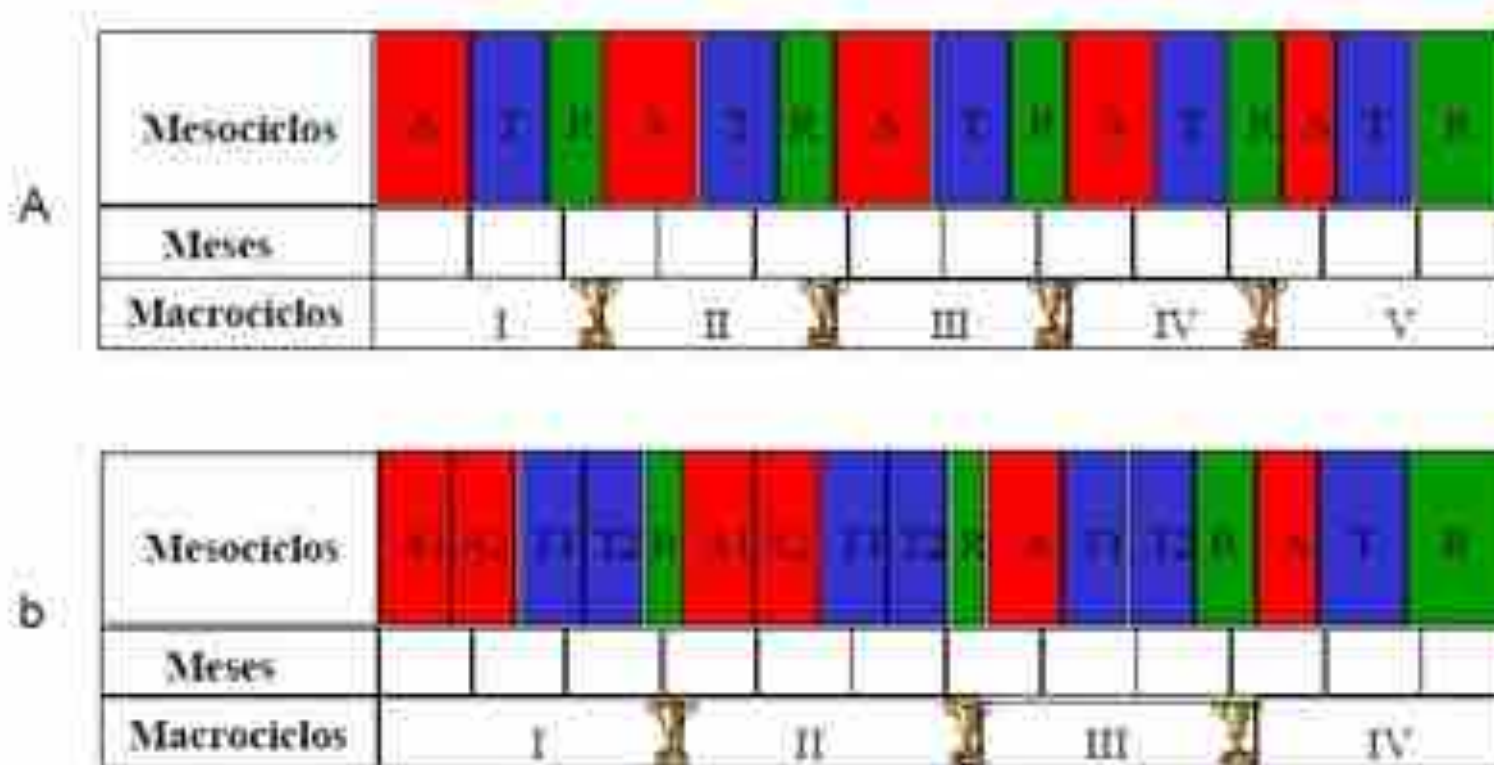


Figura 4.9.- Variaciones en la planificación de la temporada con diferentes planteamientos de los ciclos de entrenamiento: a) planteamiento con tres mesociclos diferentes; b) planteamiento con 5, 4 y 3 mesociclos.

Residual training effects

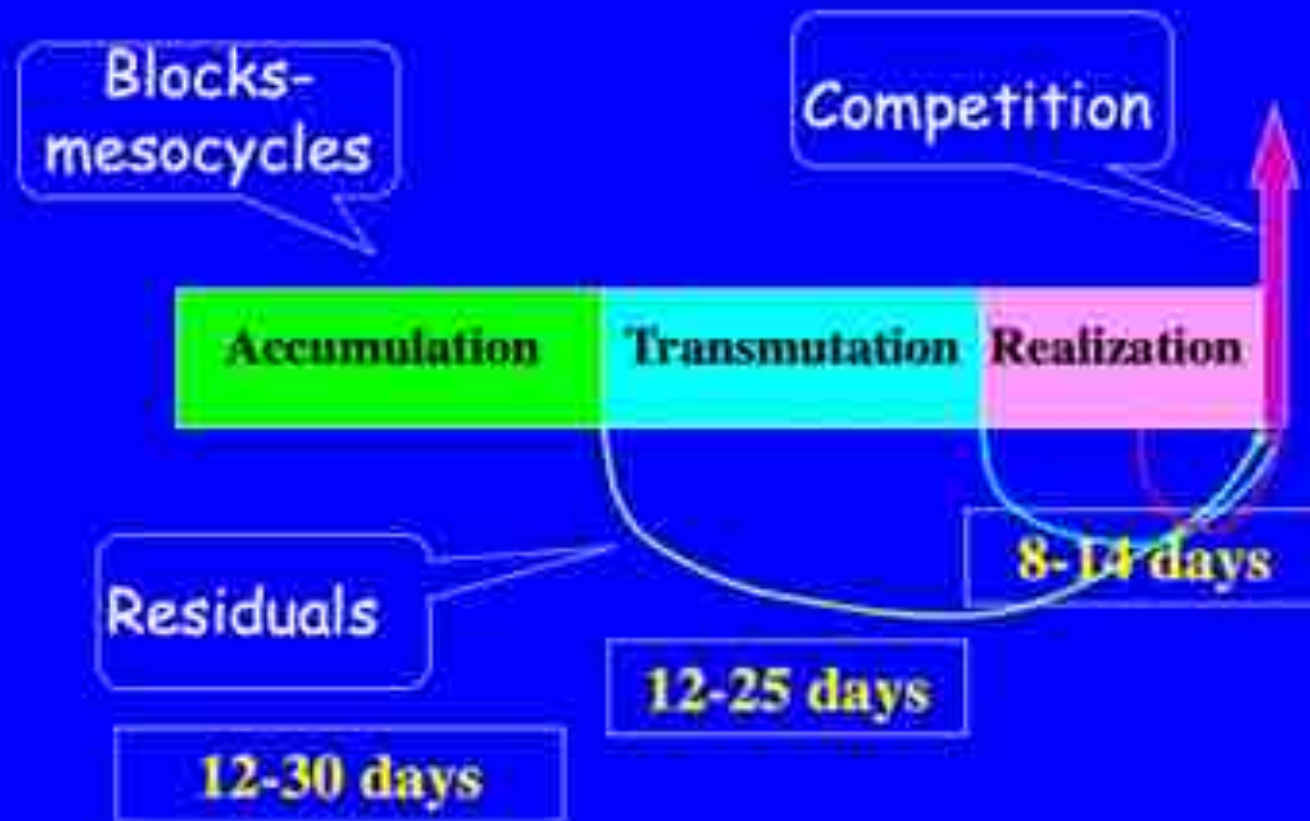




Table 3. The Duration and Underlying Physiological Mechanisms of the Residual Training Effect for Different Physical (Motor) Abilities (Issurin & Lustig, 2004)

Physical (motor) ability	Residual's duration, days	Physiological background
<i>Aerobic endurance</i>	30 ± 5	Increased amount of aerobic enzymes, mitochondria number, muscle capillaries, hemoglobin capacity, glycogen storage, higher rate of fat metabolism
<i>Maximal strength</i>	30 ± 5	Improvement of neural mechanism, muscle hypertrophy mainly due to the muscle fibers' enlargement
<i>Anaerobic glycolytic endurance</i>	18 ± 4	Increased amount of anaerobic enzymes, buffering capacity and glycogen storage, higher possibility of lactate accumulation
<i>Strength endurance</i>	15 ± 5	Muscle hypertrophy mainly in slow-twitch fibers, improved aerobic/anaerobic enzymes, better local blood circulation and lactic tolerance
<i>Maximal speed (ballistic)</i>	5 ± 3	Improved neuromuscular interactions and motor control, increased phosphocreatine storage

Superposition of Residual Training Effects – Timing





PLANIFICACIÓN TRADICIONAL VS CONTEMPORÁNEA

TEORÍA TRADICIONAL

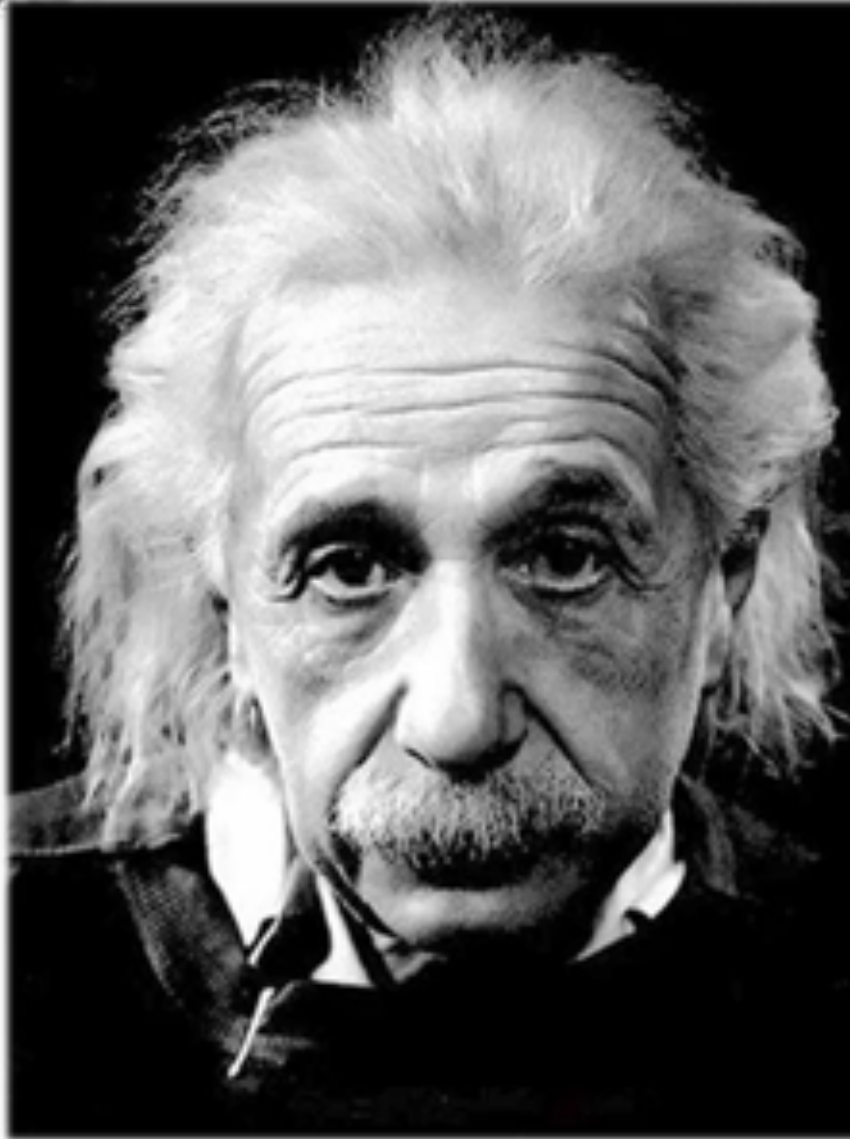
Desarrollo SIMULTÁNEO de las habilidades motoras y destrezas

- LOW-MEDIUM COCNENTRATION of training workload
- Objetivo- períodos de entrenamiento
- Efecto entrenamiento por acumulación

PERIODIZACIÓN BLOQUES

Minimal number of abilities-targets within single block. CONSECUTIVE

- HIGH CONCENTRATION of training worload
- Objetivo- bloques/mesociclos
- Efecto entrenamiento por acumulación y efecto residual del entrenamiento



Insanity:

Doing the same thing over and over again and expecting different results.

Albert Einstein



REVERSE PERIODIZATION 反周期

Figure 2: A traditional model for the periodisation of endurance

1. Develop an 'aerobic base'
2. Develop foundations of specific endurance (threshold work)
3. Carry out specific endurance work, together with and speed and power training
4. Taper



Fig 3: Reverse periodisation of endurance

1. Development of a 'speed and power base'
2. Develop foundations of specific endurance
3. Combination training (variety of duration/specificity)
4. Taper



- 1. Introduction
- 2. Methods
- 3. Results
- 4. Discussion
- 5. Conclusions
- 6. Acknowledgements
- 7. References

Application of training periodization models by elite judo coaches

Article Carlos Escalante-Cordero^{1,2,3,4}, José María García-Ortega^{1,2,3,4}
¹Universidad Carlos III de Madrid (Spain), ²Real Federación Española de Judo, ³Universidad de Zaragoza (Spain), ⁴Real Federación Española de Judo

Abstract

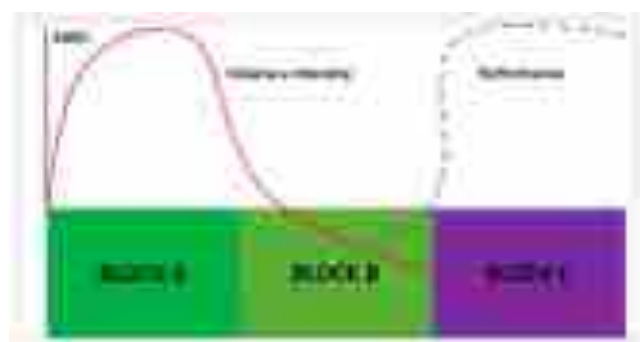
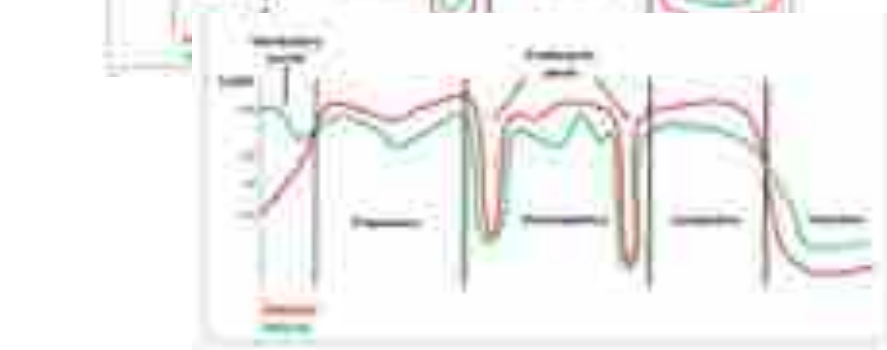
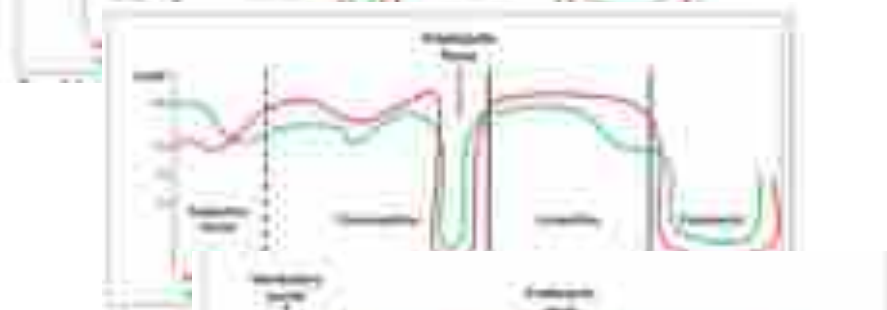
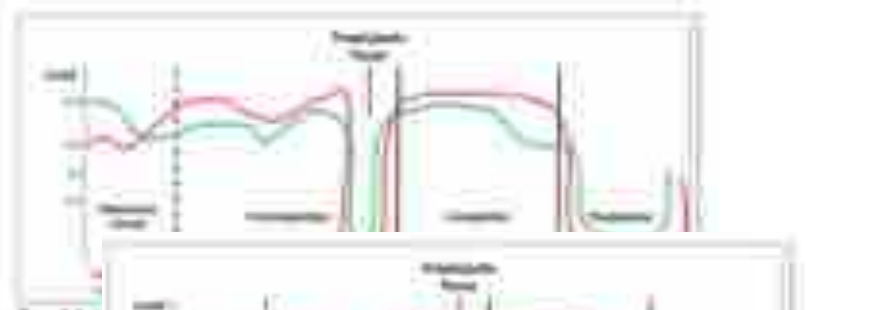
Background: The aim of this study was to analyze the periodization models used by elite judo coaches. The study was conducted in the setting of the Spanish Judo Federation, and involved elite judo athletes and their coaches. The study was conducted in the setting of the Spanish Judo Federation, and involved elite judo athletes and their coaches. The study was conducted in the setting of the Spanish Judo Federation, and involved elite judo athletes and their coaches.

Method: The study was conducted in the setting of the Spanish Judo Federation, and involved elite judo athletes and their coaches. The study was conducted in the setting of the Spanish Judo Federation, and involved elite judo athletes and their coaches.

Results: The study was conducted in the setting of the Spanish Judo Federation, and involved elite judo athletes and their coaches. The study was conducted in the setting of the Spanish Judo Federation, and involved elite judo athletes and their coaches.

Conclusions: The study was conducted in the setting of the Spanish Judo Federation, and involved elite judo athletes and their coaches. The study was conducted in the setting of the Spanish Judo Federation, and involved elite judo athletes and their coaches.

ORIGINAL ARTICLE



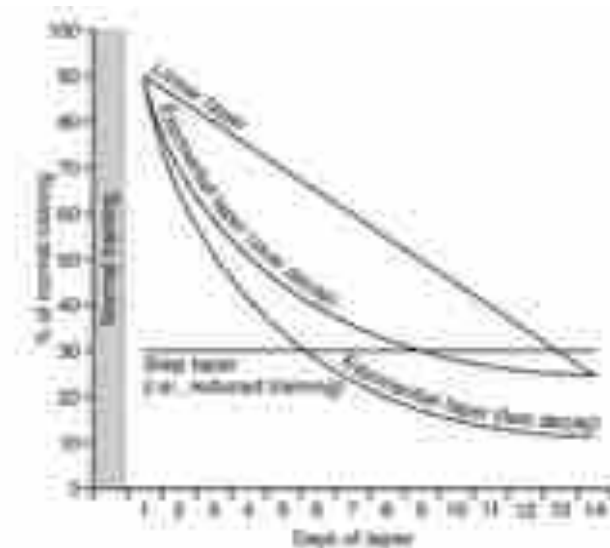


TAPERING y PEAKING 减量和最佳运动表现

A taper is a progressive reduction in training load. This reduction in the training load is meant to reduce the physical and psychological stressors incurred on a daily basis in order to enhance the body's adaptation to training—and thus optimize performance. Many physical and psychological factors are improved with a properly implemented taper.

Key points to consider when planning a taper are these:

- Reduction of the training load
- Management of fatigue and physiological adaptations
- Type of taper (i.e., taper mode)
- Taper duration
- Performance goals





TAPERING y PEAKING 减量和最佳运动表现

TYPES OF TAPER

There are generally four types of taper that are discussed in the scientific evidence and that are applied, practically, depending on the sporting context.

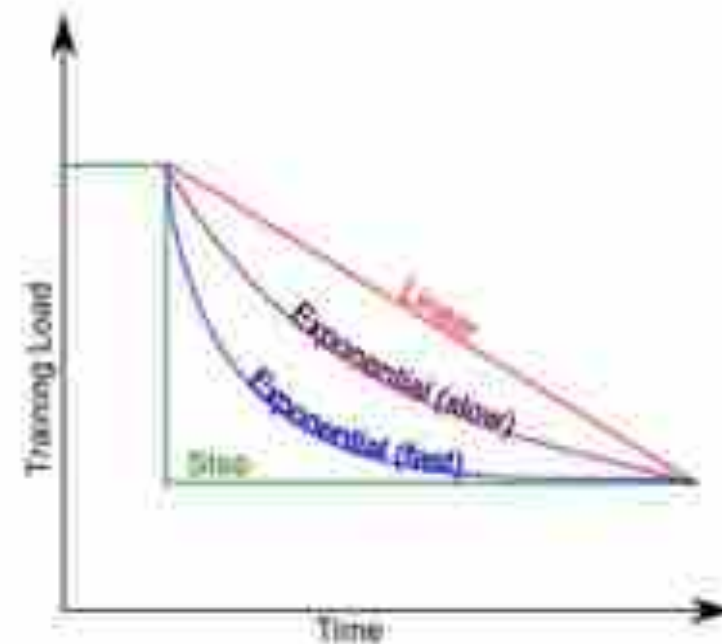
The types of taper include:

Linear Taper: This is comprised of a systematic, linear reduction in training load

Step Taper: The training load is reduced suddenly by a constant amount.

Exponential – Fast: Training load is reduced in a systematic, exponential fashion at a fast rate (fast decay)

Exponential – Slow: The training load is reduced in a systematic, exponential manner but at a slow rate (slow decay).





TAPERING y PEAKING 减量和最佳运动表现



Modelo de planificación	Tipo de taper	Duración del taper	Intensidad de trabajo	Reducción del volumen	Frecuencia de entreno
Tradicional	Exponencial caída lenta	3 semanas	Alta: 90-100%	1ª y 2ª: 40% 3ª: 60%	F: 1ª y 2ª: 2d/s; 3ª: 1d/s T: 1ª y 2ª: 3-5 d/s; 3ª: 3-4 d/s
ATR	Exponencial caída rápida	2 semanas	Alta: 90-100%	1ª: 40% 2ª: 60%	F: 1ª: 2 d/s; 2ª: 1d/s T: 1ª: 5 d/s; 2ª: 3-4 d/s
Acentuada	Exponencial caída rápida	2 semanas	Alta: 90-100%	1ª: 40% 2ª: 60%	F: 1ª: 2 d/s; 2ª: 1d/s T: 1ª: 5 d/s; 2ª: 3-4 d/s
M. Integrado	Exponencial caída rápida	2 semanas	Alta: 90-100%	1ª: 60% 2ª: 60%	F: 1ª: 2d/s; 2ª: 1d/s T: 1ª: 5 d/s; 2ª: 3-4 d/s
Cualquiera	Escalonado	1 semana	Baja: 30-40%	1ª: 70%	F: No se trabaja T: 3 d/s

s: semana; d/s: días/semana; F: entrenamiento de fuerza en sala; T: entrenamiento en tatami.



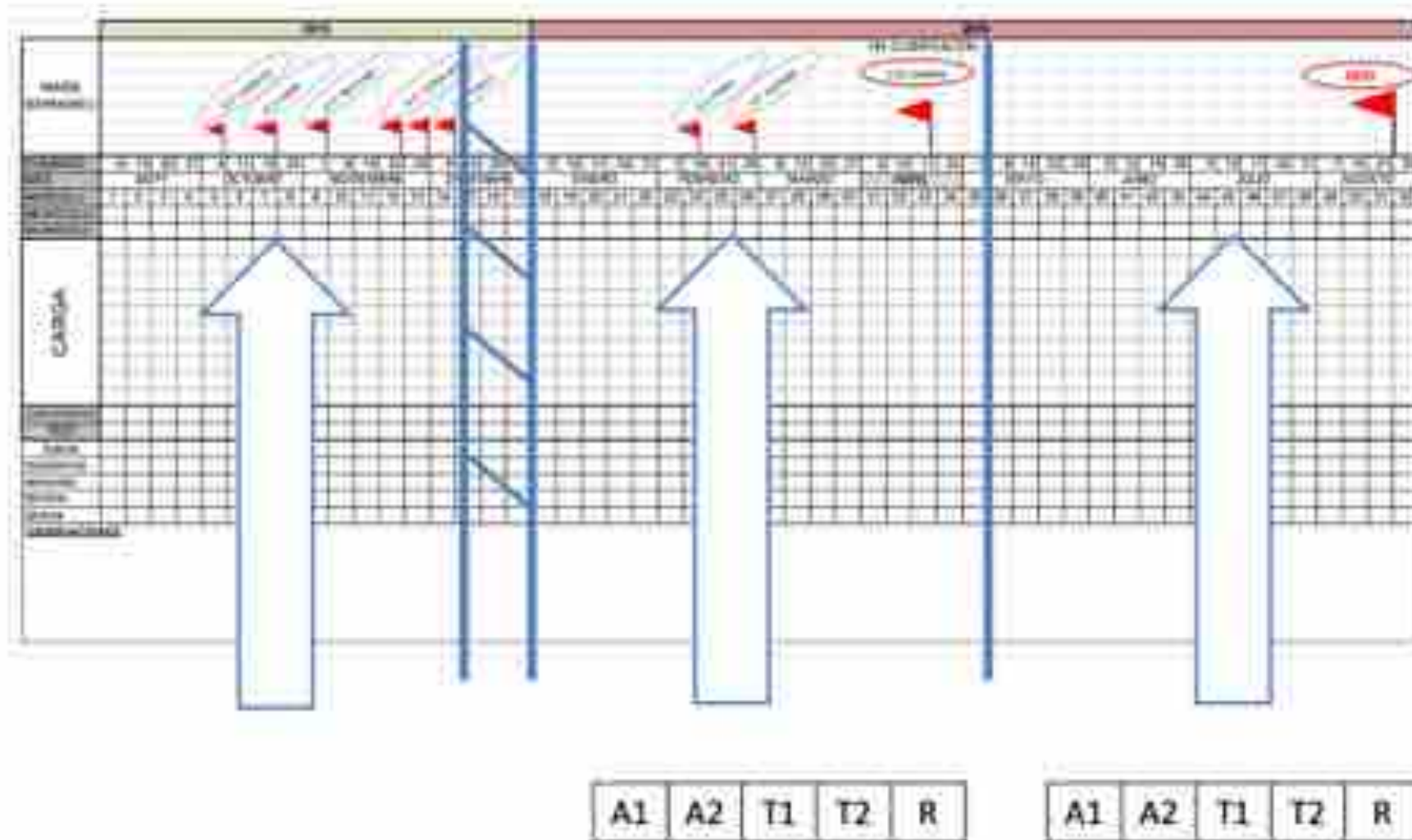
IJF WORLD JUDO TOUR 2018

JUDO FOR THE WORLD ijf.org

January	19 - 21	🇧🇩	Tunis Grand Prix	TUNIS	July	27 - 29	🇦🇩	Zagreb Grand Prix	CROATIA
February	10 - 11	🇫🇷	Paris Grand Slam	FRANCE	August	10 - 12	🇭🇺	Budapest Grand Prix	HUNGARY
February	23 - 25	🇩🇪	Düsseldorf Grand Slam	GERMANY	September	20 - 27	🇦🇿	Baku World Championships and Teams	AZERBAIJAN
March	09 - 11	🇲🇦	Agadir Grand Prix	MOROCCO	October	12 - 14	🇹🇯	Tashkent Grand Prix	UZBEKISTAN
March	17 - 18	🇷🇺	Ekaterinburg Grand Slam	RUSSIA	October	26 - 28	🇦🇪	Abu Dhabi Grand Slam	UAE
March/April	30 - 01	🇬🇪	Tbilisi Grand Prix	GEORGIA	November	16 - 18	🇳🇱	The Hague Grand Prix	NETHERLANDS
April	06 - 08	🇹🇷	Antalya Grand Prix	TURKEY	November	23 - 25	🇯🇵	Osaka Grand Slam	JAPAN
May	25 - 27	🇨🇳	Hohhot Grand Prix	CHINA	December	15 - 16	🇷🇺	Saint Petersburg Masters	RUSSIA
June	15 - 17	🇲🇽	Cancun Grand Prix	MEXICO					



MONTERO, C.



MONTERO, C.



2014

INICIO CLASIFICACION OLIMPICA

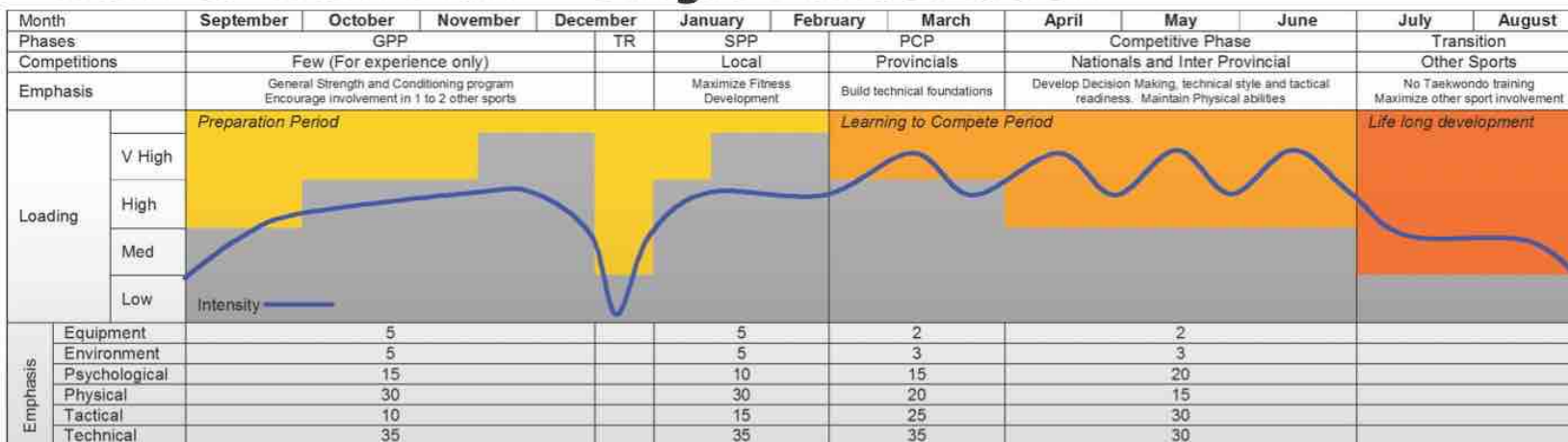
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													OTC (MUND)		S. FIN (OTC)



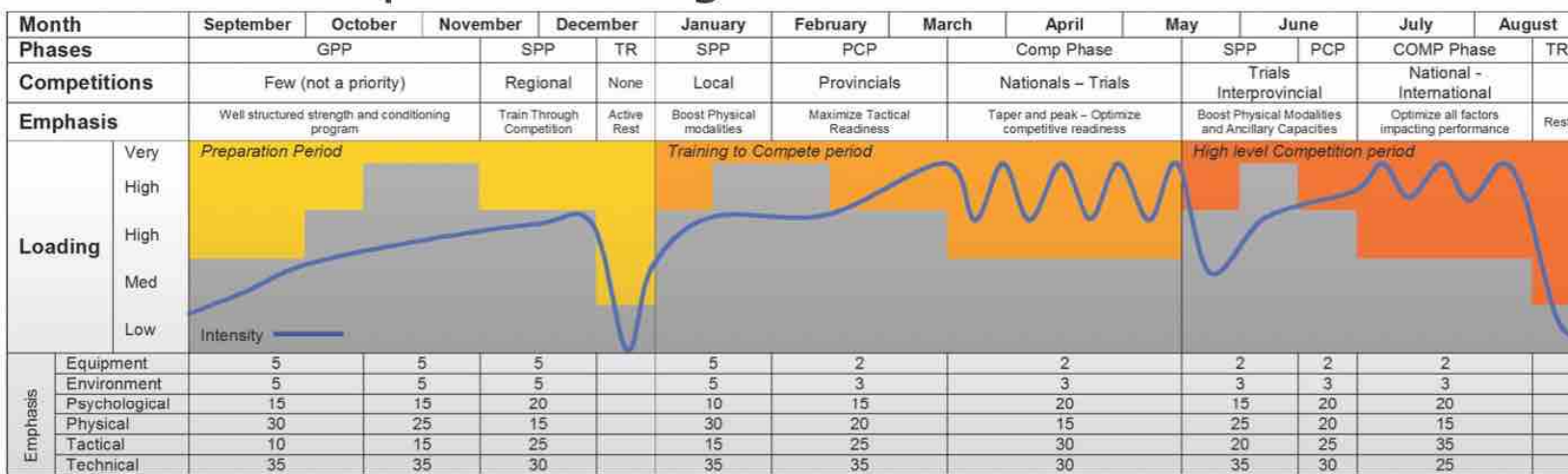
MONTERO, C.



Train to Train Plan – Single Periodization

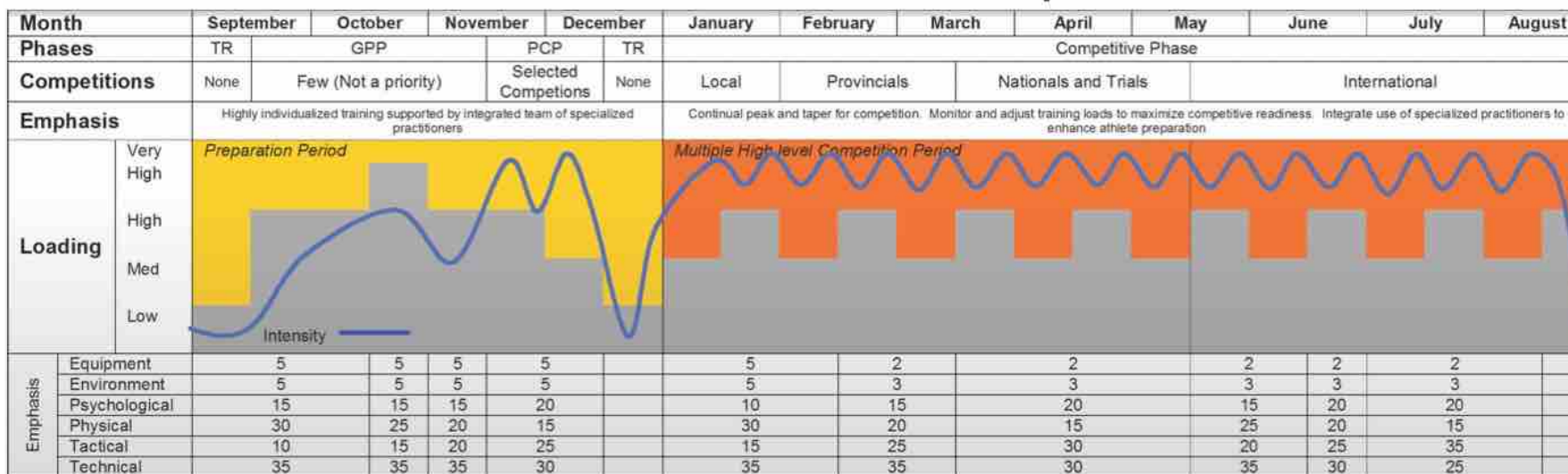


Train to Compete Training Plan – Double Periodization





Learn To Win and Train to Win – Multiple Periodization





LEIPOLD, A. 2010.



LEIPOLD, A. 2010.



LEIPOLD, A. 2010.



READ, STUDY, REVIEW, LEARN,...BE CRITICAL!

Physiological and performance changes in national and international judo athletes during block periodization training

Authors: Carlos Mora, José María Sánchez, Manuel Ángel, Manuel S. Ángel, Manuel...

Department of Physical Education and Sport Sciences of the University of Murcia, Murcia, Spain

Periodization Theory: Evolution of Periodization Theory

Abstract

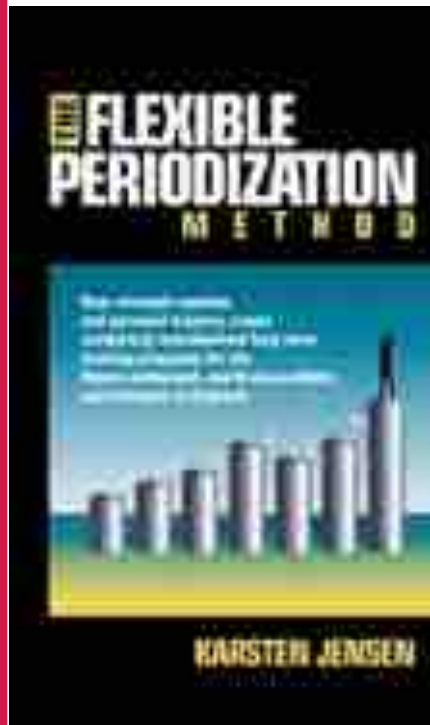
Periodization is a training method that involves planning and organizing training into specific periods...

Block periodization is a training method that involves planning and organizing training into specific periods...

Periodization models used in the competitive sport

Block periodization is a training method that involves planning and organizing training into specific periods...

Block periodization is a training method that involves planning and organizing training into specific periods...



PRACTICAL EXAMPLE 案例介绍



TEAM: Shanghai Judo
14 guys 10 girls

上海柔道队14名男运动员
10名女运动员



ATHLETE: XieYadong 谢亚东



Highest result 2019: 3^o China Championship

2018年大师赛、大奖赛冠军；2019年全国冠军赛第三名

Main opponents: Bu y Bilig (Mongolia Interior), Wang Xuewen (Sichuan),
Buzhiged (Mongolia Interior), Han Qi (Tianjin), Cheng Tseng-yin (Jiangsu).

主要对手：布和毕力格（内蒙古）、王学文（四川）、布日格德（内蒙古）、韩淇（天津）、程训钊（江苏）。



Background 上海柔道队背景

- Athletes came from Chinese New Year and 2 weeks before they were in Nanjing training with the Army's team
- 2020年2月1日，上海柔道队运动员恢复训练，两周前他们在南京和八一队一起训练。
- New situation: lock down in the training base
- 新情况: 封闭训练基地
- New head coach 新任外籍主教练
- Some athletes were injured 一些运动员受伤了

PRACTICAL EXAMPLE 案例介绍



1. Goal setting 设定训练目标

MAIN GOAL: 主要目标

Get medal in China Games
取得第十四届全运会奖牌



Date: Sept 2021

日期: 2021年9月



Improve physical capacities 提升体能

Keep low body fat and increase muscle mass

保持低体脂, 增加肌肉量

Improve technical/strategy

改进技术/战术

Important **communication** with athlete!!!

与运动员的交流沟通非常重要!!!

PRACTICAL EXAMPLE 案例介绍



2. Sport context conditions 体育环境条件

Social environment 社会环境

Equipment: best conditions for training

设备: 训练的最佳条件

Budget: good support from Shanghai Elite Sports Training

预算: 上海竞技体育训练管理中心的大力支持



PRACTICAL EXAMPLE 案例介绍



3. Setting up the competition calendar 设置比赛日历



○ New head coach
新任主教练
19 weeks left for the 1st
competition 距离第一个
比赛只有19周的时间

🏆 China Championship
10-14 June
全国锦标赛6月10-14日

🏆 National Championship
12-16 October
全国冠军赛10月12-16日

🏆 National Master
27-29 November
大师赛11月27-29日


PRACTICAL EXAMPLE 案例介绍



4. Staff 工作团队组建

Leader 团队负责人: Mr. Gag 

Sports coordinator: Mrs. Zhang 

Head coach 外籍主教练: Felipe Sánchez 

Assistant coach 中方教练: Ji, Wu 

Sports doctor: Mr. Cheng 

Scientist: Li Bo 

Physiotherapist: Tom Davitt 

Support staff: Shanghai Elite Sport Training Administrative Center 团队支持: 上海竞技体育训练管理中心



PRACTICAL EXAMPLE 案例介绍



5. Identify training phases 确定训练阶段

Modern periodization: ATR 采用现代训练周期划分

Why? 为什么要做周期划分?

Several important competitions during the season

19 weeks for the 1st important competition

因为整个2020赛季中有几场重要比赛，其中第一场重要比赛在第19周。

Training phases: 训练阶段

INTRODUCTORY: 3 weeks

预备期: 3周

ACUMULATION: 3 + 3 weeks

积累期: 3周+3周

TRANSMUTATION: 3 + 3 weeks

转化期: 3周+3周

REALIZATION: 4 weeks

实现期: 4周

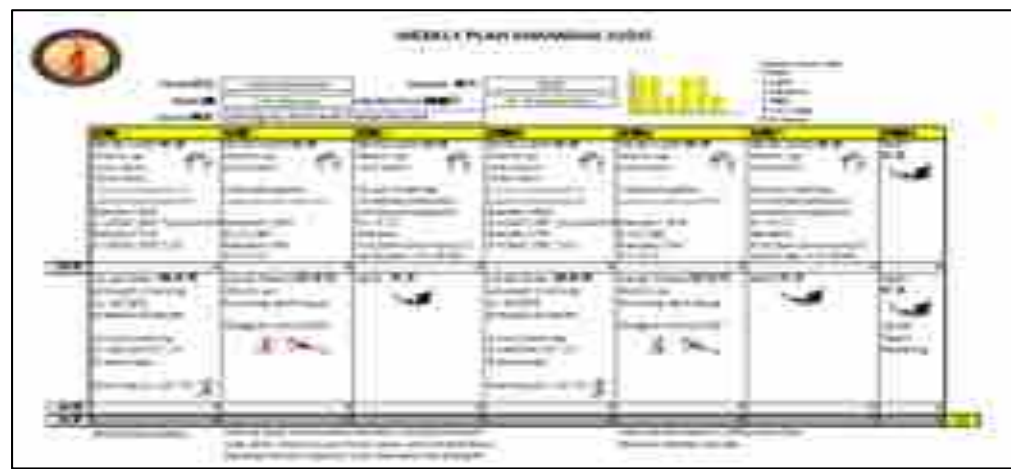
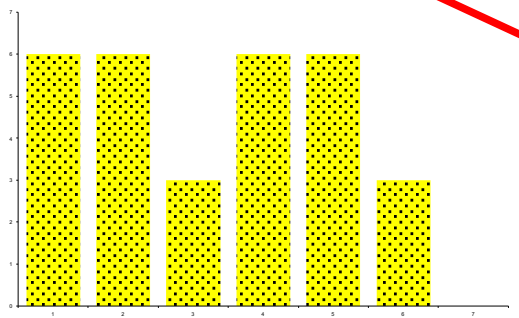
Total: 19 weeks 共计19周





PRACTICAL EXAMPLE 案例介绍

6. Build your training plan 制定你的训练计划



PRACTICAL EXAMPLE 案例介绍



6. Build your training plan 制定你的训练计划

INTRODUCTORY: 3 weeks

预备期: 3周

- Aerobic circuits
- Yako soku geiko
- Olympic lifts technique
- Initial evaluation
- Randori
- General conditioning
- 10 sessions per week
- Rest Thus/Sat aftern/Sund
- Test technique
- Team meeting



PRACTICAL EXAMPLE 案例介绍



6. Build your training plan 制定你的训练计划

ACUMULATION: 3 + 3 weeks

积累期: 3周+3周

A screenshot of a training plan spreadsheet with multiple columns and rows of data.

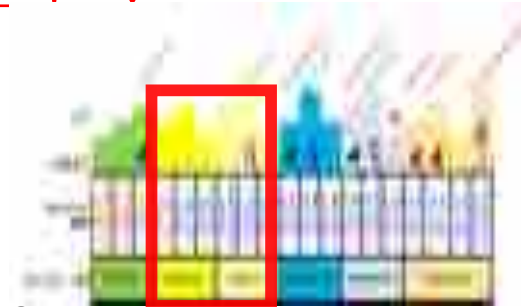
PRACTICAL EXAMPLE 案例介绍



6. Build your training plan 制定你的训练计划

ACUMULATION: 3 + 3 weeks

积累期: 3周+3周



Day	Session 1	Session 2	Session 3	Session 4	Session 5
Monday	Aerobic circuits	Running	Yako soku geiko	Olympic lifts	10/12 sessions per week
Tuesday	recovery microcycle	ne waza: diff positions	shiai (w/referee)	kakari geiko	judo GS videos
Wednesday	Aerobic circuits	Running	Yako soku geiko	Olympic lifts	10/12 sessions per week
Thursday	recovery microcycle	ne waza: diff positions	shiai (w/referee)	kakari geiko	judo GS videos
Friday	Aerobic circuits	Running	Yako soku geiko	Olympic lifts	10/12 sessions per week
Saturday	recovery microcycle	ne waza: diff positions	shiai (w/referee)	kakari geiko	judo GS videos
Sunday	Aerobic circuits	Running	Yako soku geiko	Olympic lifts	10/12 sessions per week

- Aerobic circuits
- Running
- Yako soku geiko
- Olympic lifts
- 10/12 sessions per week
- recovery microcycle
- ne waza: diff positions
- shiai (w/referee)
- kakari geiko
- judo GS videos

PRACTICAL EXAMPLE 案例介绍



6. Build your training plan 制定你的训练计划

TRANSMUTATION: 3 + 3 weeks

转化期: 3周+3周



Week	Activity	Duration	Notes
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PRACTICAL EXAMPLE 案例介绍

6. Build your training plan

TRANSMUTATION: 3 + 3 weeks

转化期: 3周+3周

日期	训练内容	训练时长	训练强度	训练效果
1月1日	热身运动	15分钟	低	良好
1月2日	有氧运动	30分钟	中	良好
1月3日	力量训练	45分钟	高	良好
1月4日	技术训练	60分钟	高	良好
1月5日	有氧运动	30分钟	中	良好
1月6日	力量训练	45分钟	高	良好
1月7日	技术训练	60分钟	高	良好
1月8日	有氧运动	30分钟	中	良好
1月9日	力量训练	45分钟	高	良好
1月10日	技术训练	60分钟	高	良好
1月11日	有氧运动	30分钟	中	良好
1月12日	力量训练	45分钟	高	良好
1月13日	技术训练	60分钟	高	良好
1月14日	有氧运动	30分钟	中	良好
1月15日	力量训练	45分钟	高	良好
1月16日	技术训练	60分钟	高	良好
1月17日	有氧运动	30分钟	中	良好
1月18日	力量训练	45分钟	高	良好
1月19日	技术训练	60分钟	高	良好
1月20日	有氧运动	30分钟	中	良好
1月21日	力量训练	45分钟	高	良好
1月22日	技术训练	60分钟	高	良好
1月23日	有氧运动	30分钟	中	良好
1月24日	力量训练	45分钟	高	良好
1月25日	技术训练	60分钟	高	良好
1月26日	有氧运动	30分钟	中	良好
1月27日	力量训练	45分钟	高	良好
1月28日	技术训练	60分钟	高	良好
1月29日	有氧运动	30分钟	中	良好
1月30日	力量训练	45分钟	高	良好
1月31日	技术训练	60分钟	高	良好

日期	训练内容	训练时长	训练强度	训练效果
1月31日	热身运动	15分钟	低	良好
2月1日	有氧运动	30分钟	中	良好
2月2日	力量训练	45分钟	高	良好
2月3日	技术训练	60分钟	高	良好
2月4日	有氧运动	30分钟	中	良好
2月5日	力量训练	45分钟	高	良好
2月6日	技术训练	60分钟	高	良好
2月7日	有氧运动	30分钟	中	良好
2月8日	力量训练	45分钟	高	良好
2月9日	技术训练	60分钟	高	良好
2月10日	有氧运动	30分钟	中	良好
2月11日	力量训练	45分钟	高	良好
2月12日	技术训练	60分钟	高	良好
2月13日	有氧运动	30分钟	中	良好
2月14日	力量训练	45分钟	高	良好
2月15日	技术训练	60分钟	高	良好
2月16日	有氧运动	30分钟	中	良好
2月17日	力量训练	45分钟	高	良好
2月18日	技术训练	60分钟	高	良好
2月19日	有氧运动	30分钟	中	良好
2月20日	力量训练	45分钟	高	良好
2月21日	技术训练	60分钟	高	良好
2月22日	有氧运动	30分钟	中	良好
2月23日	力量训练	45分钟	高	良好
2月24日	技术训练	60分钟	高	良好
2月25日	有氧运动	30分钟	中	良好
2月26日	力量训练	45分钟	高	良好
2月27日	技术训练	60分钟	高	良好
2月28日	有氧运动	30分钟	中	良好
2月29日	力量训练	45分钟	高	良好
2月30日	技术训练	60分钟	高	良好



PRACTICAL EXAMPLE 案例介绍



6. Build your training plan 制定你的训练计划

TRANSMUTATION: 3 + 3 weeks

转化期: 3周+3周

Day	Session 1	Session 2	Session 3	Session 4
Monday				
Tuesday				
Wednesday				
Thursday				
Friday				
Saturday				
Sunday				

- Anaerobic circuits
- Yako soku geiko
- Randori groups 4-5
- Randori + Golden score
- Randori modo gachi
- Randori "Ippon"
- Randori "tactical situations"
- Randori newaza (trans TW-NW)
- Shiai (w/referee)
- Competition indiv/team
- 10/11 sessions per week
- Recovery microcycle



PRACTICAL EXAMPLE 案例介绍



6. Build your training plan 制定你的训练计划

TRANSMUTATION: 3 + 3 weeks

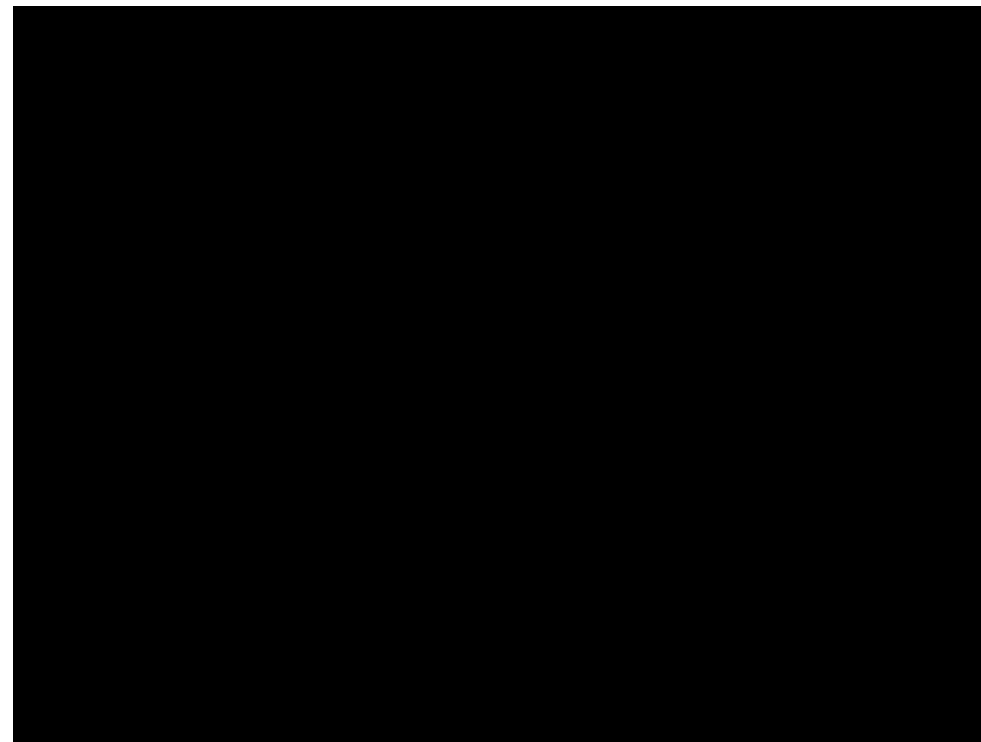
转化期: 3周+3周



CIRCUIT TRAINING

- 1. Bench press
- 2. Hanging clean
- 3. Squat jumping
- 4. Snatch pull ups
- 5. Rotational swing

- 6. Burpees
- 7. Battle rope
- 8. Box jump
- 9. V-band



Randori



Randori

MOTO DACHI - JAPANESE ROUNDS 20 x 4 (20' rest)

	Chang Min 曹敏	Wang Dan 王丹妮	Yu Feng 林凤鸣
Round 1	Yang Doudou 杨多多	Ren Yang 任雅婷	Ma Feiya 马菲亚
Round 2	Chang Min 曹敏	Fu Han 傅佳妮	Liu Han 刘彦
Round 3	Ren Yang 任雅婷	Ma Feiya 马菲亚	Feng Doudou 冯多多
Round 4	Fu Han 傅佳妮	Sun Han 孙彦	Chang Min 曹敏
Round 5	Ma Feiya 马菲亚	Feng Doudou 冯多多	Ren Yang 任雅婷
Round 6	Yu Han	Wang Guozheng 王朝正	Yang Junjie 杨俊杰
Round 7	Sun Han 孙彦	Chang Min 曹敏	Fu Han 傅佳妮
Round 8	Yu Feng 林凤鸣	Wang Shengjun 王圣君	Chang Min 曹敏
Round 9	Wang Guozheng 王朝正	Yu Feng 林凤鸣	Wang Dan 王丹妮
Round 10	Wang Dan 王丹妮	Chang Min 曹敏	Chang Shuan 常硕

	Chang Min 曹敏	Score
Chang Shuan 常硕	2-0-0-10 (+2 FREE)	
Chao Junyang 赵君阳	2-0-0-0 (+4 FREE)	
Wang Shengjun 王圣君	2-0-0-0 (+2 FREE)	
Felise	2-0-0-0 (+2 FREE)	
Chang Shuan 常硕	2-0-0-10 (+2 FREE)	
Qu Ya 柯立鑫	2-0-0-10 (+2 FREE)	
Chang Min 曹敏	2-0-0-7 (+2 FREE)	
Wang Guozheng 王朝正	2-0-0-0 (+4 FREE)	
Chuan Han 傅佳妮	2-0-0-10 (+1 FREE)	
Ren Yang 任雅婷	2-0-0-0 (+2 FREE)	
Feng Doudou 冯多多	2-0-0-0 (+2 FREE)	
Ma Feiya 马菲亚	2-0-0-0 (+2 FREE)	
Fu Han 傅佳妮	2-0-7-0 (+2 FREE)	
Sun Han 孙彦	1-0-7-0 (+2 FREE)	

	Wang Dan 王丹妮	Fu Han 傅佳妮	Wu Deqiang 吴德强	Wang Dan 王丹妮
Round 1	Wang Dan 王丹妮	Qu Ya 柯立鑫	Chang Min 曹敏	Wang Dan 王丹妮
Round 2	Wang Shengjun 王圣君	Felise	Chao Junyang 赵君阳	Chang Shuan 常硕
Round 3	Qu Ya 柯立鑫	Chuan Han 傅佳妮	Yang Junjie 杨俊杰	Wang Guozheng 王朝正
Round 4	Felise	Chao Junyang 赵君阳	Chang Shuan 常硕	Wang Shengjun 王圣君
Round 5	Chuan Han 傅佳妮	Yang Junjie 杨俊杰	Wang Guozheng 王朝正	Qu Ya 柯立鑫
Round 6	Wu Deqiang 吴德强	Wang Dan 王丹妮	Wang Dan 王丹妮	Fu Han 傅佳妮
Round 7	Chao Junyang 赵君阳	Chang Shuan 常硕	Wang Shengjun 王圣君	Felise
Round 8	Yang Junjie 杨俊杰	Wang Guozheng 王朝正	Qu Ya 柯立鑫	Chuan Han 傅佳妮
Round 9	Chang Shuan 常硕	Wang Shengjun 王圣君	Felise	Chao Junyang 赵君阳
Round 10	Wang Guozheng 王朝正	Qu Ya 柯立鑫	Chuan Han 傅佳妮	Yang Junjie 杨俊杰

Randori

Round 1	Round 2	Round 3	Round 4	Round 5
2 vs 1	3 vs 4	6 vs 4	4 vs 1	5 vs 6
3 vs 6	6 vs 1	2 vs 3	5 vs 3	1 vs 3
4 vs 5	2 vs 5	1 vs 5	6 vs 2	4 vs 2

5 x randori (1 kumikata+1 randori+1 attack+1 defense)/1'

1 Renzang 任福祥
2 Zhang Min 张彬
3 Xu Fengyi 徐凤逸
4 Sunwei 孙伟
5 Wang Dami 王丹妮
6 Fudan 傅佳妮

1 Jiang Junya 蒋俊杰
2 Zhao Junyang 赵君阳
3 Wang Shengjun 王上君
4 Zhang Zhuyuan 张致远
5 Wu Zhaobang 吴卓邦
6 Felipe

1 Wanglin 王麟
2 He Jidong 何立东
3 Zhuo Han 卓汉
4 Li Peizhang 李佩正
5 Qiu Yehai 邱益海
6 Fei Zhen 费震

1 Feng Shuofu 冯多多
2 Tang Huiyi 唐一懿
3 Ma Feiyu 马飞宇
4 Wang Qingsong 王青松
5 Chang Huiyi 庄一懿
6 Tang Huiyi 唐一懿

5 x randori (3 +1 GOLDEN SCORE)/1:30'

1 Renzang 任福祥
2 Zhang Min 张彬
3 Xu Fengyi 徐凤逸
4 Sunwei 孙伟
5 Wang Dami 王丹妮
6 Fudan 傅佳妮

1 Jiang Junya 蒋俊杰
2 Zhao Junyang 赵君阳
3 Wang Shengjun 王上君
4 Wanglin 王麟
5 Wu Zhaobang 吴卓邦
6 Felipe

1 Zhang Zhuyuan 张致远
2 He Jidong 何立东
3 Zhuo Han 卓汉
4 Li Peizhang 李佩正
5 Qiu Yehai 邱益海
6 Fei Zhen 费震

1 Feng Shuofu 冯多多
2 Tang Huiyi 唐一懿
3 Ma Feiyu 马飞宇
4 Wang Qingsong 王青松
5 Chang Huiyi 庄一懿
6 Tang Huiyi 唐一懿

Team competition



柔道队比赛

上海，2020年4月23日，14:30

SHANGHAI TEAM A	SHANGHAI TEAM B	SHANGHAI TEAM C
Ren Yajing 任雅静	Zhang Min 张敏	Feng Douduo 冯多多
SunHan 孙含	Wang Danni 王丹妮	PuJiani 浦佳妮
Jiang Junjie 姜俊杰	Zhao Junxiang 赵君翔	Xu Fengyi 徐凤逸
ZhangZhiyuan 张致远	WangXin 王鑫	Wang Shangjun 王上钧
ZhouYixin 周祥歆	XieYadong 谢业东	Wu Zedong 吴泽东
FeiJunjun 费君君	Qiu Ye xin 邱业鑫	LIPinzheng 李品正
Coach: Wu	Coach: Ji	Coach: Felipe
Team support: Wang Guoping	Team support: Yang Jilin	Team support: Yang Yiyang



Individual competition

RULES

1. IF YOU WIN ALL THE FIGHTS BY IPPON YOU WILL HAVE 100 POINTS.
2. IN CASE THAT THERE ARE SEVERAL ATHLETES WITH SAME NUMBER OF IPPON, WILL WIN THAT ONE WHO WON WITH FASTEST IPPON.
3. WIN BY WAZARI = 50 POINTS.
4. ALSO ATHLETES THAT HAVE (*) TACTICAL (SHU), IF WIN BUT DO NOT RELEASE THE STRAPSY WILL (THE) HAVE HALF SCORE.
5. IF YOU WIN ONE ATHLETE OF HIGHER WEIGHT CATEGORY YOU WILL SCORE +10 POINTS.

	№ FIGHTS	WIN by IPPON= X POINTS	WIN by WAZARI= X POINTS
Ren Ting 任雅静	6	16.66	8.33
Zhang Min 张敏	6	16.66	8.33
Feng Douxiao 冯多多	6	16.66	8.33
Yang Yiang 杨一杨	6	16.66	8.33
Wang Daini 王丹妮	5	20	10
Xu Fengyi 徐凤逸	5	20	10
Bunhan 孙鑫	5	20	10
Jiang Junjie 姜俊杰	7	14.28	7.14
Zhao Junliang 赵俊强	7	14.28	7.14
Wang Shengjun 王生军	7	14.28	7.14
Wu Dedong 吴德东	4	25	12.5
Wanglin 王鑫	7	14.28	7.14
Zhang Zhuyuan 张致远	5	20	10
Ma Yandong 马亚东	6	16.66	8.33
Zhou Yan 周彦	4	25	12.5
Qi Jiexin 戚杰鑫	3	33.33	16.66
Fei Junyi 费军毅	3	33.33	16.66

PRACTICAL EXAMPLE 案例介绍



Build your training plan 制定你的训练计划

REALIZATION: 4 weeks
实现期: 4周



Date	Time	Activity
10/10	18:00-19:00	Warm-up
10/10	19:00-20:00	Technique
10/10	20:00-21:00	Sparring
10/10	21:00-22:00	Conditioning
10/10	22:00-23:00	Recovery
10/11	18:00-19:00	Warm-up
10/11	19:00-20:00	Technique
10/11	20:00-21:00	Sparring
10/11	21:00-22:00	Conditioning
10/11	22:00-23:00	Recovery
10/12	18:00-19:00	Warm-up
10/12	19:00-20:00	Technique
10/12	20:00-21:00	Sparring
10/12	21:00-22:00	Conditioning
10/12	22:00-23:00	Recovery
10/13	18:00-19:00	Warm-up
10/13	19:00-20:00	Technique
10/13	20:00-21:00	Sparring
10/13	21:00-22:00	Conditioning
10/13	22:00-23:00	Recovery

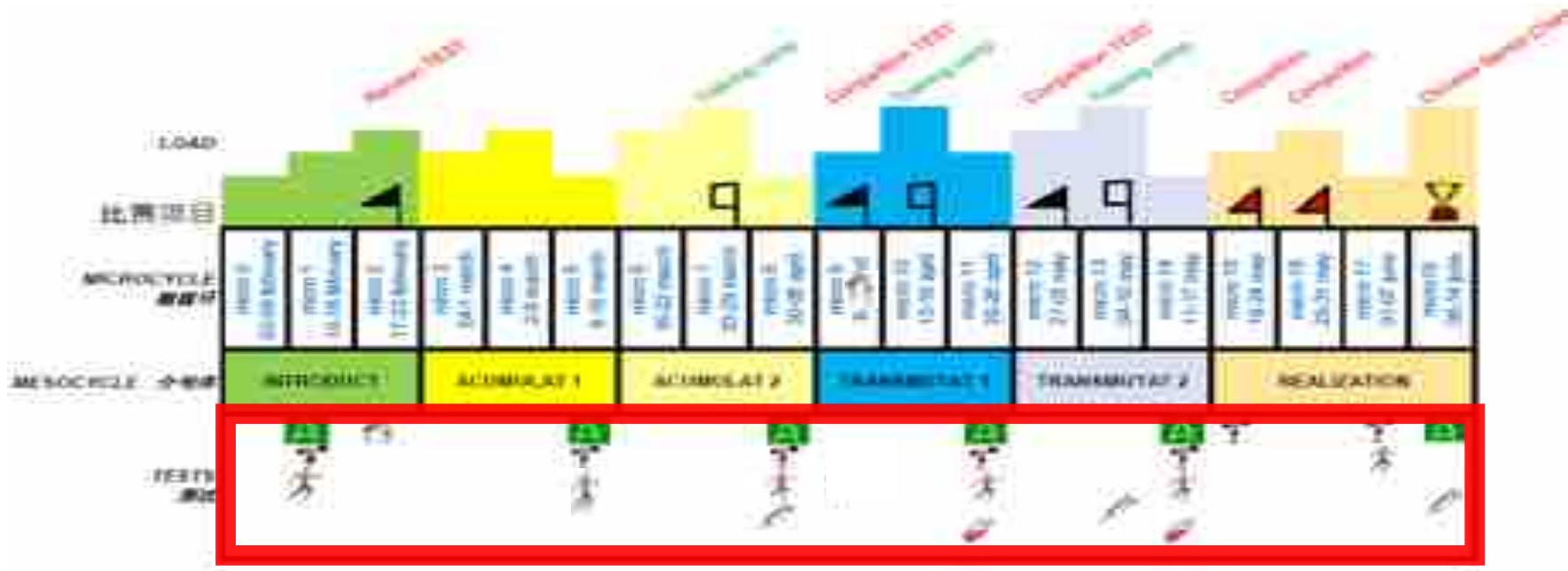
- Lactic power
- Competition tactic
- Randori (1-3')/+ rec
- Randori Golden score
- Randori modo gachi
- Randori "tactical situations"
- Randori newaza (trans TW-NW)
- Shiai (w/referee)
- Tapering
- Training Camp NANJING
- 10 sessions per week











PRACTICAL EXAMPLE 案例介绍

7. Setting up evaluation tests 安排各项测试和评估



Body composition 
 身体成分
 Technique test 
 柔道技术测试

Endurance test 
 耐力测试
 Blood analysis 
 生理生化测试

Strength test 
 力量测试
 Lactate test 
 血乳酸测试

PRACTICAL EXAMPLE 案例介绍



8. Follow the training plan 严格执行训练计划



PRACTICAL EXAMPLE 案例介绍



8. Follow the training plan 严格执行训练计划



PRACTICAL EXAMPLE 案例介绍

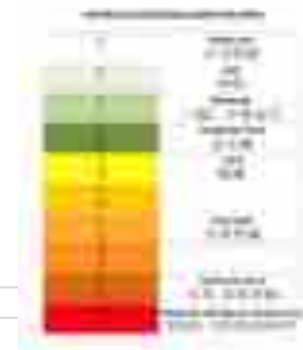
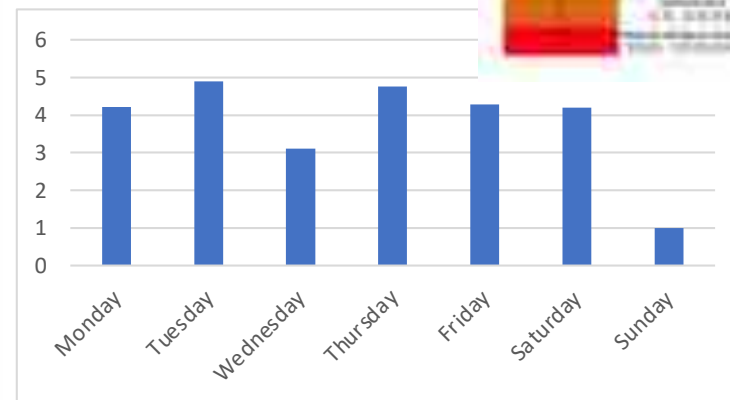
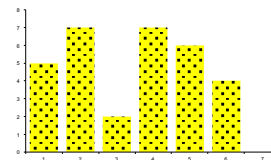


8. Follow the training plan 严格执行训练计划

Everyday we are registering many data about training sessions:

RPE (rate of perceived exertion) 每天我们都需要记录许多关于训练课程的数据 (运动员训练感受反馈表)

TRAINING LOAD 训练负荷计算统计



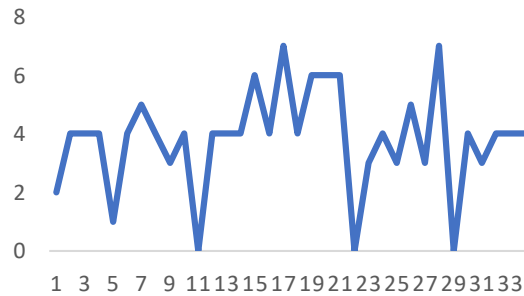
PRACTICAL EXAMPLE 案例介绍



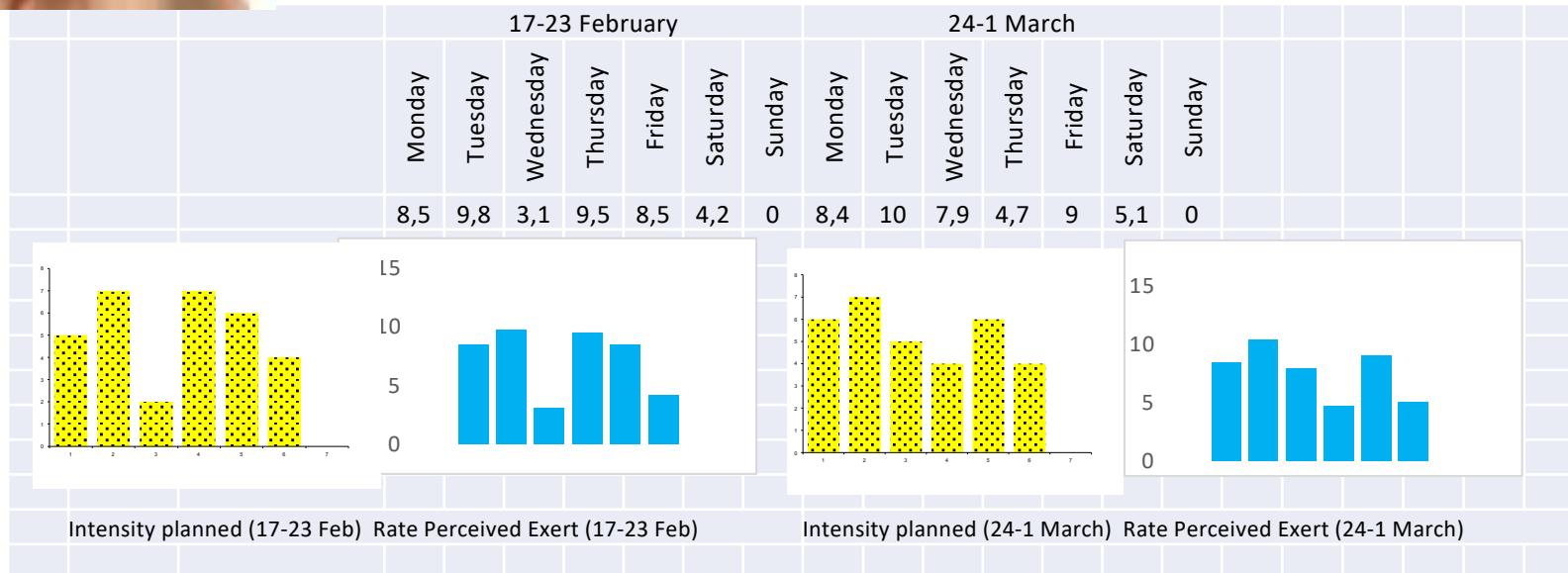
8. Follow the training plan 严格执行训练计划



RPE 谢亚东



		3,9	4,6	4,5	5,3	3,1	4,4	5,1	4,1	4,5
陈一帆	ChenYi fan	3	4	5	5	3	4	6	4	4
费君君	feijunjun	4	5	5	5	3	5	2	4	5
冯多多	FengDuoDuo	4	3	5	5	4	5	5	5	6
姜俊杰	Jiangjunjie	4	7	5	7	3	4	5	4	3
李雪莹	LiXueying	4	3	4	5	2	3	5	4	5
马菲宇	MaFeiyu	4	4	4	5	3	5	6	5	5
浦佳妮	Pujiani	4	3	4	5	2	4	5	3	4
任雅静	RenYajing	5	4	4	5	4	4	5	5	5
孙含	SunHan	3	3	3	3	3	4	3	3	5
王丹妮	Wang Danni			4	5	4	6	7	5	5
王上钧	wang shang jun	4	5	3	3	2	4	6	3	3



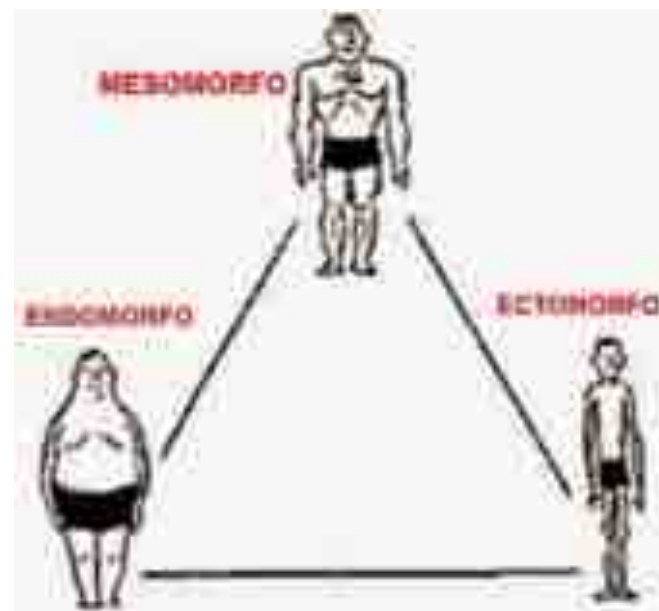
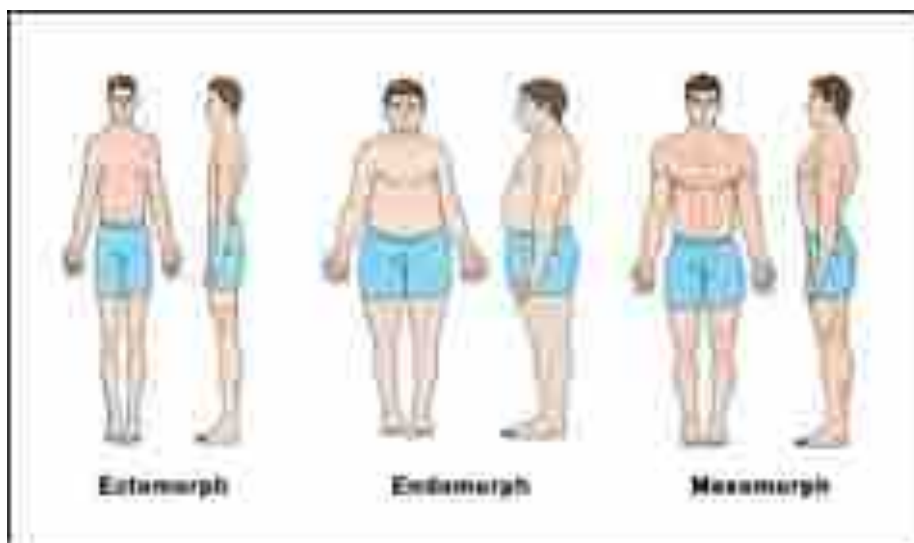
PRACTICAL EXAMPLE 案例介绍



9. Evaluate the periodization training process

对阶段训练进行评估

BODY COMPOSITION 身体成分测试 Somatotype 体型分类



体型一词在人体生理分类系统中使用。根据三种极端的体型，人类可以分为：内形体型，又称圆型，脂肪型；中形体型，又称肌肉型；外形体型，又称纤细型，线形型。



PRACTICAL EXAMPLE 案例介绍

9. Evaluate the periodization training process

对阶段训练进行评估



BODY COMPOSITION

Somatotype

We can compare with TOP national teams

Table 1. Somatotype of high-level judo athletes

Athlete characteristics	Ectomorphy (mean ± SD)	Mesomorphy (mean ± SD)	Endomorphy (mean ± SD)	Reference
Male				
Hungarian team (n=18)	3.6 ± 1.8	7.0 ± 1.3	1.6 ± 0.9	Farroni ¹⁰
Japanese (n=12)	3.4 ± 2.0	8.5 ± 1.4	1.0 ± 0.8	Kawamura et al. ¹¹
French (n=10)	1.2 ± 0.5	7.9 ± 0.9	1.9 ± 0.7	Kawamura et al. ¹¹
Brazilian team 1990 (n=7)	2.7 ± 1.3	7.9 ± 1.6	1.1 ± 0.6	Shibata et al. ¹²
WCP under 71 kg (n=16)	2.3 ± 0.4	5.9 ± 0.5	1.9 ± 0.4	Claessens et al. ¹³
WCP 71-86 kg (n=9)	3.0 ± 0.5	6.8 ± 0.7	1.7 ± 0.7	Claessens et al. ¹³
WCP >86 kg (n=11)	4.1 ± 0.8	6.2 ± 0.6	1.0 ± 0.4	Claessens et al. ¹³
Brazilian university team 1990 (n=10)	2.7 ± 1.8	6.2 ± 1.5	1.6 ± 1.2	Franchini et al. ¹⁴
Female				
Brazilian university team 1990 (n=7)	4.1 ± 1.3	5.0 ± 1.1	1.7 ± 1.2	Franchini et al. ¹⁴
Brazilian team 1990 (n=7)	4.2 ± 1.3	5.1 ± 0.8	1.1 ± 1.0	Franchini et al. ¹⁴
Brazilian elite (n=28)	3.4 ± 1.9	5.1 ± 1.7	1.9 ± 0.9	Mello and Fernandes. ¹⁵

WCP = World Champion

谢亚东

2,44

6,74

1,27



PRACTICAL EXAMPLE 案例介绍

9. Evaluate the periodization training process

对阶段训练进行评估

BODY COMPOSITION 身体成分

Somatotype 体型类型

We can compare with TOP national teams

我们可以和顶级国家队相比



Fig. 1. Somatotype characteristics of elite athletes. The chart shows a cluster of data points in the upper-left region, indicating a high proportion of muscle and low fat.

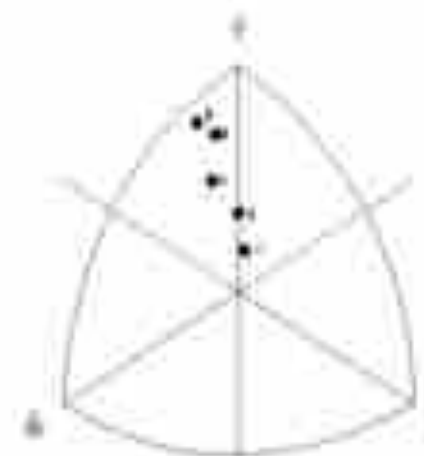


Fig. 2. Somatotype characteristics of elite athletes. The chart shows a cluster of data points in the upper-right region, indicating a high proportion of fat and low muscle.



PRACTICAL EXAMPLE 案例介绍

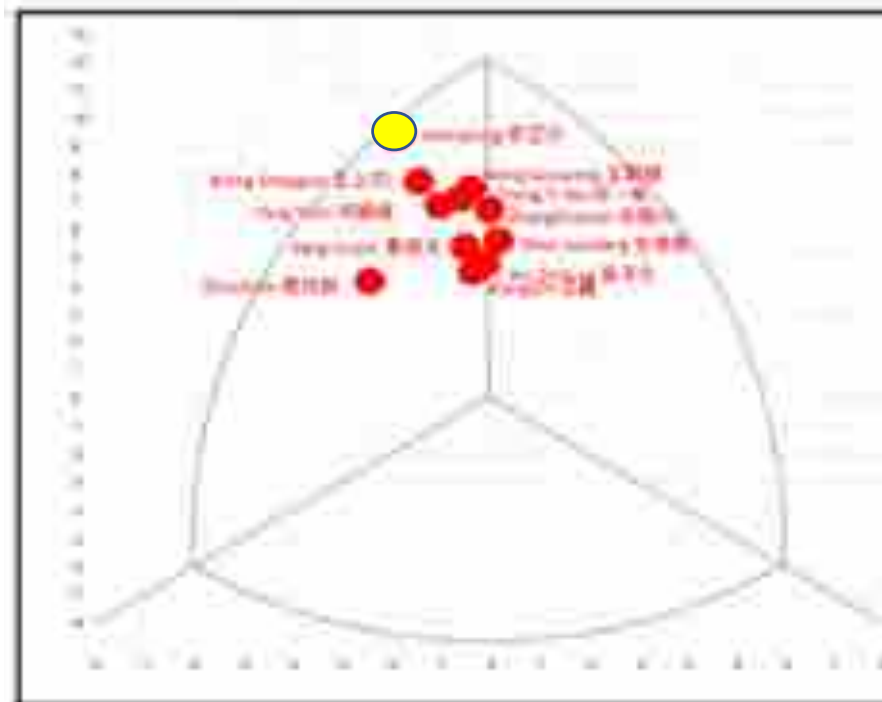
9. Evaluate the periodization training process

对阶段训练进行评估

BODY COMPOSITION 身体成分

Somatotype 体型类型

We can compare with our own team 我们可以和自己的团队相比





PRACTICAL EXAMPLE 案例介绍

9. Evaluate the periodization training process

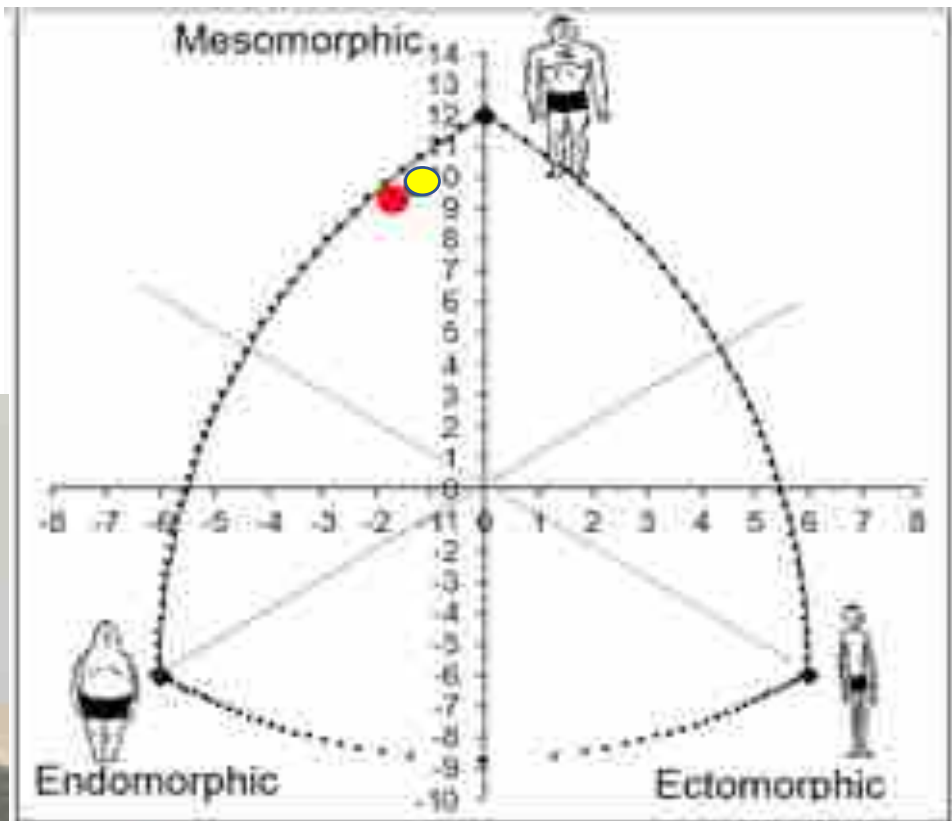
对阶段训练进行评估

BODY COMPOSITION 身体成分

Somatotype 体型类型

or compare with
your own data

我们可以拿自己不同时间的
的数据作比较



● 02-2020 ● 05-2020



PRACTICAL EXAMPLE 案例介绍

9. Evaluate the periodization training process 对阶段训练进行评估

BODY COMPOSITION 身体成分

% Body fat
体脂率

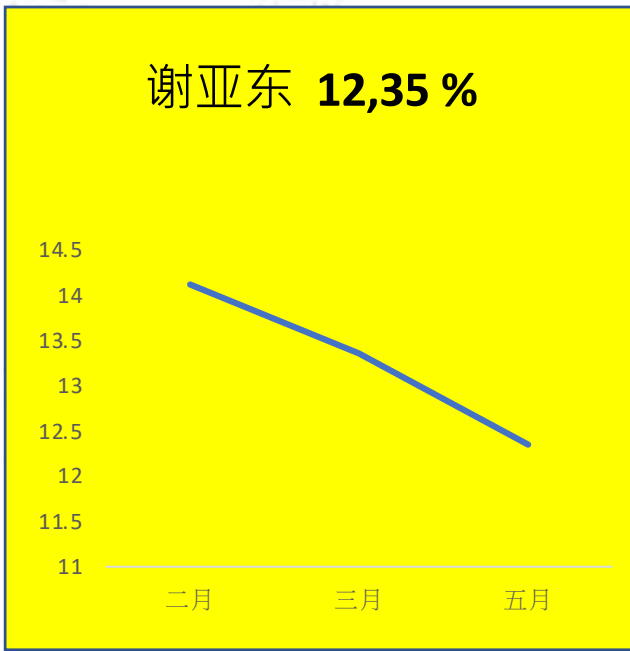
世界不同
国家男女
柔道运动员
的体脂率
数据分析



Table 8. Percentage body fat in judo athletes

Athlete characteristics	Body mass (kg) (mean ± SD)	% Body fat (mean ± SD)	Reference
Men			
Hungarian team (n=7)	80 ± 10 ^a	8.4 ± 4.6	
Hungarian team (n=12)	~70 ^a	14.9 ± 7.2	
Canadian team 1987 (n=28)	75.4 ± 13.2	8.4 ± 2.1	
US team (n=6)	81.8 ± 12.7	12.8 ± 1.8	
US team (n=18)	85.1 ± 12.8	8.3 ± 1.2	
Canadian (n=17)	72.2 ± 14.9	11.8 ± 1.2	
British Judo Club team (n=9)	80.8 ± 24.9	11.1 ± 3.2	
Polish (n=15)	82.8 ± 18.4	13.7 ± 3.8	
British Judo Club team 2000 (n=12)	85.0 ± 16.5	12.7 ± 3.2	
British Olympic team 2000 (n=7)	80 ^b	7.6 ± 2.8	
Croatian (n=6)	80 ^b	10.8 ± 2.2	
British team A (n=7)	81.8 ± 22.8	11.4 ± 4.4	
British team B (n=15)	80.5 ± 18.2	11.1 ± 3.7	
Women			
Polish team (n=22)	68.1 ± 7.8	20.8 ± 2.2	
Canadian (n=6)	62.2 ± 2.2	15.2 ± 2.2	
US team (n=7)	66.3 ± 2.8	16.8 ± 1.8	
US team (n=16)	55.8 ± 7.6	16.3 ± 1.6	
British Judo Club team (n=7)	66.8 ± 14.5	16.1 ± 2.2	
British Olympic team 2000 (n=6)	60.2 ± 4.9	20.4 ± 2.8	
Croatian (n=6)	60 ^b	18.6 ± 4.2	

^a Athletes body mass ranged from 60 to 120 kg
^b Athletes body mass was not reported



PRACTICAL EXAMPLE 案例介绍



9. Evaluate the periodization training process

对阶段训练进行评估

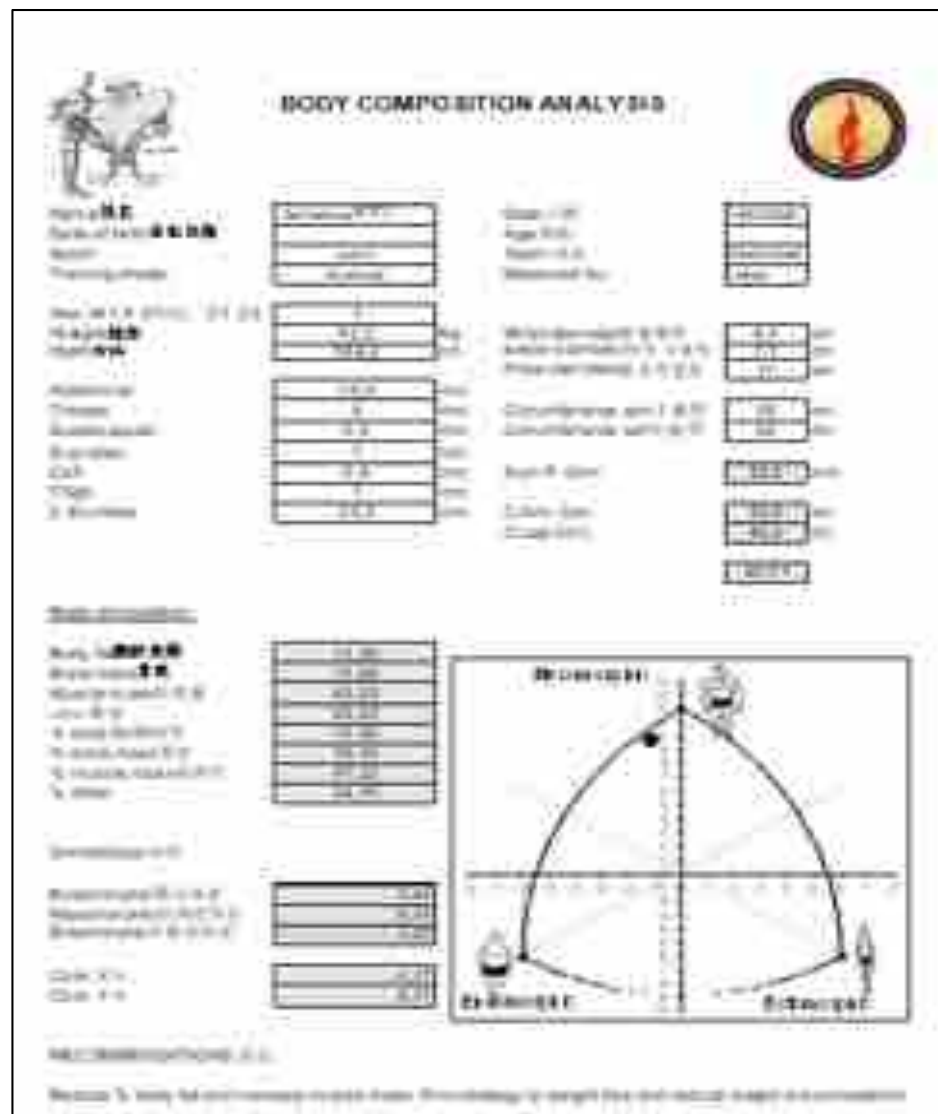
BODY COMPOSITION

% Body fat



上海柔道队运动员谢亚东
的身体成分分析表

根据他在体型三维图上的
位置分析他在国际上-90
公斤级中的身体形态情况





PRACTICAL EXAMPLE 案例介绍

9. Evaluate the periodization training process 对阶段训练进行评估

STRENGTH 力量测试 (最大力量卧推、深蹲)

Maximum strength- BENCH PRESS-SQUAT

We can compare with TOP national teams

我们与国际顶尖国家的柔道队做对比 (巴西、法国等)



Table 10. One repetition maximum (1RM) data in different exercises performed by Judo athletes

State	Sample characteristics (n)	Exercise	1RM (kg)	
Judoists (n=10)	Brazilian judoists (1998, M=20.5)	Bench press	190 ± 21	
		Squat	190 ± 21	
	International (n=11)	Bench press	90 ± 20	
		Squat	140 ± 20	
	National (n=11)	Bench press	90 ± 10	
		Squat	140 ± 20	
	International (n=11)	Bench press	97 ± 20	
		Squat	140 ± 20	
	Judoists (n=11)	Brazilian judoists (2000, M)	Bench press	170 ± 20
			Squat	130 ± 21
International (n=11)		Bench press	100 ± 21	
		Squat	110 ± 20	
Brazilian judoists (n=11)	Brazilian Judo team (2000, M=20.5)	Bench press	160 ± 20	
		Lat machine	140 ± 10	
	International (n=11)	Leg press	300 ± 10	
		Deadlift	120 ± 10	
	International (n=11)	Leg press	270 ± 4	
		Bench press	70 ± 10	
Brazilian judoists (n=11)	Brazilian Judo team (2000, M=20.5)	Lat machine	90 ± 10	
		Leg press	300 ± 10	
	International (n=11)	Deadlift	90 ± 5	
		Leg press	300 ± 4	





PRACTICAL EXAMPLE 案例介绍

9. Evaluate the periodization training process

对阶段训练进行评估

STRENGTH 力量测试 (最大力量卧推、深蹲)

Maximum strength- BENCH PRESS-SQUAT

We can compare with TOP national teams

我们与国际顶尖国家的柔道队做对比 (巴西、法国等)



谢亚东 130 kg





PRACTICAL EXAMPLE 案例介绍

9. Evaluate the periodization training process

对阶段训练进行评估

STRENGTH 力量测试 (最大力量卧推、深蹲)

Maximum strength- BENCH PRESS-SQUAT

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我们与国际顶尖国家的柔道队做对比 (巴西、法国等)



谢亚东 160 kg



PRACTICAL EXAMPLE 案例介绍



9. Evaluate the periodization training process

对阶段训练进行评估

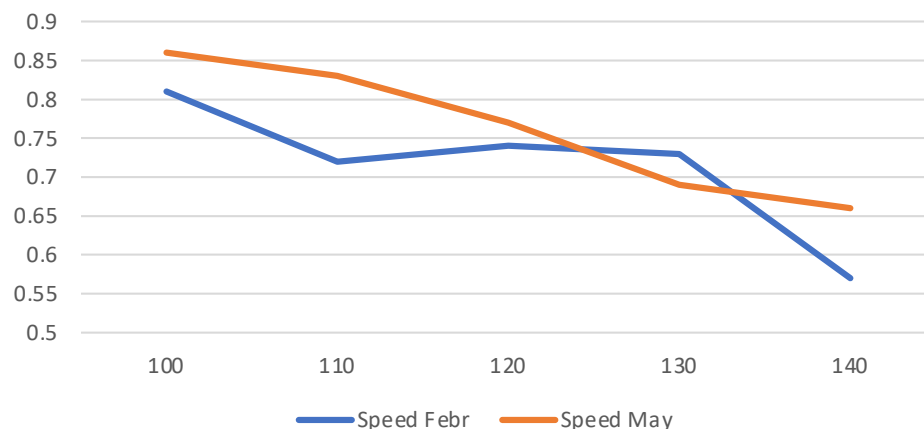
STRENGTH 力量测试

Velocity/Power 速度/功率测试

50-60-70-80-90-100% RM

采用50%-100%的重量进行测试

深蹲测试 SQUAT - XieYadong 谢亚东



蓝线为二月测试，红线为五月测试



SQUAD 13284 (A-Z)

Judo

ATHLETE BY

YADONG Xie

BODYMASS 65.56 LBS



REPS
0
3

SET
4
1

RECORDING ATHLETE 2/2

Bench Press - Wide Grip

RECORDING TEST WITH 1029

All



BAR Graph Mean Velocity (m/s)



BAR
110.00
kg

Mean Velocity (m/s)

106.78kg - 111.00kg

LOGGED IN





PRACTICAL EXAMPLE

9. Evaluate the periodization training process

对阶段训练进行评估

STRENGTH

Isometric handgrip strength

Item	Right Hand	Left Hand
1RM	100	90
5RM	80	75
10RM	60	55
15RM	50	45
20RM	40	35
25RM	35	30
30RM	30	25
35RM	25	20
40RM	20	15
45RM	15	10
50RM	10	5
55RM	5	0
60RM	0	0
65RM	0	0
70RM	0	0
75RM	0	0
80RM	0	0
85RM	0	0
90RM	0	0
95RM	0	0
100RM	0	0



谢亚东 Right: 68 Left: 65



PRACTICAL EXAMPLE 案例介绍

9. Evaluate the periodization training process

对阶段训练进行评估

STRENGTH 力量测试

Technique Clean: 杠铃轨迹

barbell trajectory 纠正挺举技术动作、姿势



PRACTICAL EXAMPLE



9. Evaluate the periodization training process

对阶段训练进行评估

STRENGTH

Technique Snatch:

纠正抓举技术动作姿势



PRACTICAL EXAMPLE



9. Evaluate the periodization training process

对阶段训练进行评估

STRENGTH

Vertical jump 垂直纵跳:

Abalakov Jump



Name	Height	Weight	Age
谢亚东	194	75	22
王磊	192	78	21
李强	190	72	20
张明	188	70	19
陈伟	186	68	18
赵刚	184	66	17
周亮	182	64	16
吴昊	180	62	15
孙宇	178	60	14
郑浩	176	58	13
冯鑫	174	56	12
姜涛	172	54	11
徐峰	170	52	10
曹宇	168	50	9
林宇	166	48	8
罗宇	164	46	7
宋宇	162	44	6
李宇	160	42	5
周宇	158	40	4
吴宇	156	38	3
郑宇	154	36	2
冯宇	152	34	1

谢亚东 50 cm



PRACTICAL EXAMPLE 案例介绍

9. Evaluate the periodization training process 对阶段训练进行评估



ENDURANCE 耐力测试

VO2 max (ml/kg/min) 最大摄氧量

We can compare with TOP national teams
我们可以与世界顶尖国家队进行对比

数据来自于上
图的文献《精
英运动员的体
能数据》

Team	VO2 max (ml/kg/min)	Speed (km/h)	Distance (km)
World Class	60-70	18-20	10-15
Elite	55-60	16-18	8-10
Intermediate	45-55	12-14	5-7
Recreational	30-40	8-10	3-5





PRACTICAL EXAMPLE 案例介绍

9. Evaluate the periodization training process

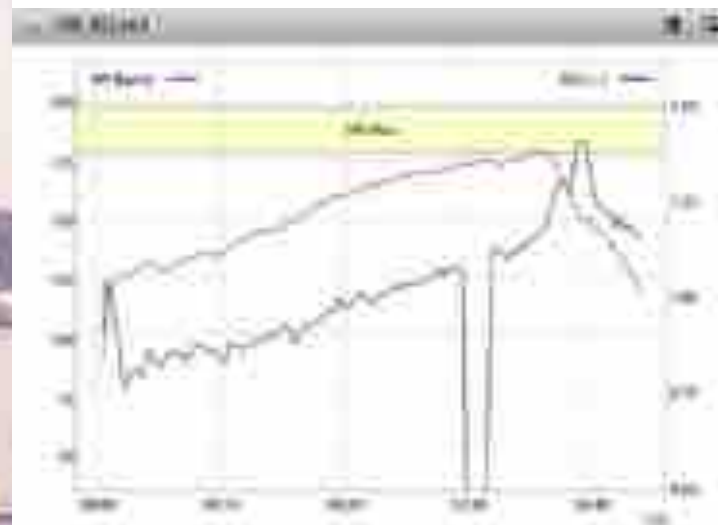
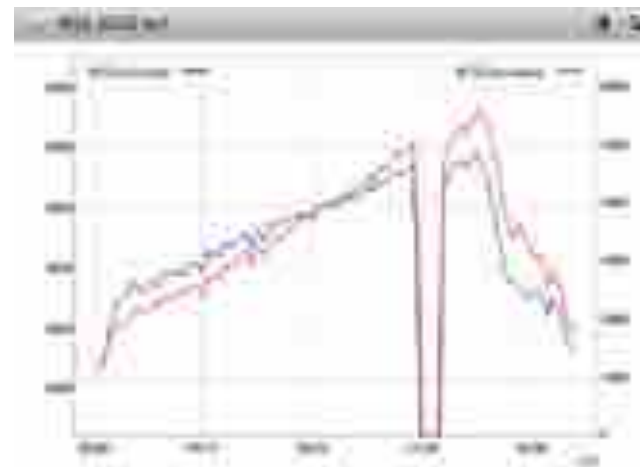
对阶段训练进行评估



ENDURANCE耐力测试

VO2 max 最大摄氧量

谢亚东 VO2 max 50 ml/kg/ min 50摩尔/公斤/分钟
VO2 max rel. 4882 ml/min 摩尔/分钟



PRACTICAL EXAMPLE 案例介绍



9. Evaluate the periodization training process

对阶段训练进行评估



ENDURANCE 耐力测试

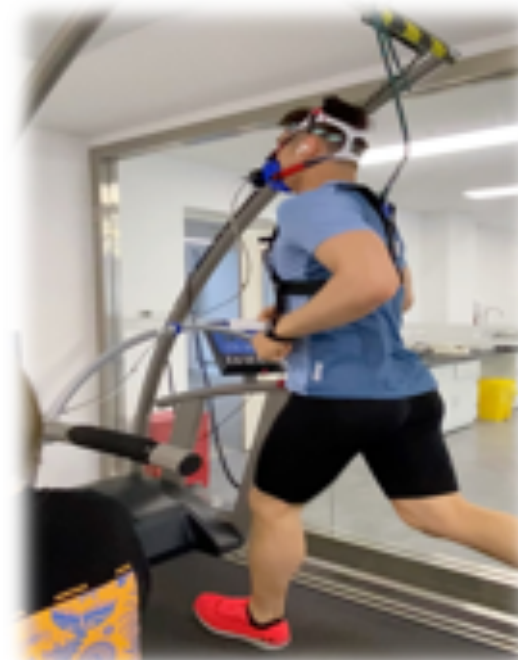
TEST COOPER 12

谢亚东 Test Cooper 12'

3170 m 3170米

VO2 max 59 ml/kg/ min

最大摄氧量为 59摩尔/公斤/分钟



PRACTICAL EXAMPL 案例介绍



9. Evaluate the periodization training process

对阶段训练进行评估

CHINA JUDO ASSOCIATION 中国柔道协会体能大比武 PHYSICAL TESTS

虽然谢亚东获得了总成绩第二名，
我们还是将谢亚东的成绩与-90公斤
各单项的最好成绩进行对比分析。



	Bench press (kg)	Half squat (kg)	Tire flip (s)	Reverse sled drag (s)	3000 m	Climber 2 (steps)	Climber 4 (steps)	Rowing 1000 m (s)	Rowing 2000 m (s)
U65	115	160	23.7	11.87	641.21	146	282	03:59.4	07:31.0
U66	135	180	17.4	10.48	637.57	146	272	03:30.4	07:19.0
U75	140	165	20.21	10.34	603	155	283	03:27.0	07:14.0
U81	145	190	23.39	12.10	649.14	151	284	03:16.0	06:51.0
U90	175	200	21.03	13.87	641.77	156	298	03:11.0	06:53.0
U100	160	200	20.18	14.12	707	153	253	03:09.0	06:45.0
100	170	210	26.26	13.08	802.39	130	236	03:20.9	06:56.0

PRACTICAL EXAMPLE



9. Evaluate the periodization training process

对阶段训练进行评估

CHINA JUDO ASSOCIATION

PHYSICAL TESTS

-90公斤			
代表队	姓名	总分	排名
国家队	布和毕力格	65	1
上海	谢亚东	57	2
天津	韩湛	48	3
江苏	万国秋	36	4
江苏	申一杰	32	5
上海	周祯敏	26	6
国家队	王学文	25	7
山东	赵忠禹	24	8



PRACTICAL EXAMPLE

9. Evaluate the periodization training process

对阶段训练进行评估

CHINA JUDO ASSOCIATION 中国柔道协会体能大比武 PHYSICAL TESTS

3KM -80KG			
代表队	姓名	1000米 成绩	排名
国家队	石和申力雄	641.77	1
上海	曹俊杰	670.8	2
吉林	姜祥登	683	3
天津	路杰	685	4
江西	申一杰	695.23	5
甘肃	李三其	708	6
上海	谢博毅	708.9	7
山西队	丁博文	772	8

短跑 -80KG			
代表队	姓名	100米/秒	排名
江苏	万国秋	13"87	1
江苏	申一杰	13"95	2
国家队	王学文	14"68	3
山东	孙中成	14"71	4
上海	曹俊杰	14"78	5
国家队	布和力格	17"	6
青海	王磊	17"74	7
山东	庄博	18"56	8

翻轮胎 -80KG			
代表队	姓名	翻轮胎 时间	排名
上海	曹俊杰	21.08	1
山东	孙中成	21.32	2
江苏	申一杰	21.82	3
国家队	花盛宇	21.9	4
国家队	王学文	23.94	5
辽宁	曹震吉	23.96	6
国家队	石和申力雄	24.07	7
江苏	万国秋	25.24	8



PRACTICAL EXAMPLE



9. Evaluate the periodization training process

对阶段训练进行评估

CHINA JUDO ASSOCIATION 中国柔道协会体能大比武 PHYSICAL TESTS

省份	姓名	重量	排名
国家队	王学文	177	1
国家队	南和雄	143	2
山东	南和雄	140	3
上海	曹国栋	130	4
江西	万国秋	129	5
重庆柔道队	杨元森	120	6
重庆柔道队	冯强平	120	6
上海	南和雄	118	8
山东	南和雄	120	8
辽宁	南和雄	118	8
天津	南和雄	120	8
江西	南和雄	118	8
内蒙古	南和雄	110	8
山东	南和雄	110	8
新疆	南和雄	110	8
辽宁	南和雄	110	8

省份	姓名	重量	排名
国家队	南和雄	140	1
上海	曹国栋	130	2
天津	南和雄	120	2
重庆	杨元森	120	3
江西	万国秋	120	3
吉林	南和雄	120	4
上海	曹国栋	120	4
天津	南和雄	120	4
山东	南和雄	120	5
吉林	南和雄	120	5
山东	南和雄	120	5
新疆	南和雄	120	5
江苏	南和雄	120	5
山东	南和雄	120	5
山东	南和雄	120	5
山东	南和雄	120	5
内蒙古	南和雄	120	5
天津	南和雄	120	5
辽宁	南和雄	120	5
辽宁	南和雄	120	5





PRACTICAL EXAMPLE

9. Evaluate the periodization training process

对阶段训练进行评估

CHINA JUDO ASSOCIATION 中国柔道协会体能大比武 PHYSICAL TESTS

代表队	姓名	成绩(秒)	排名
上海	曹国生	216	1
上海	高伟新	248	2
天津	韩亮	247	3
国家队	李和坤	240	4
安徽	董三其	229	5
山东	宋德海	228	6
甘肃	孙世明	230	6
山东	魏志勇	218	7
江西	万国林	213	8

代表队	姓名	成绩(秒)	排名
国家队	李和坤	208	1
天津	韩亮	266	2
上海	曹国生	240	3
上海	高伟新	237	4
江苏	申一杰	232	5
江苏	万国林	227	6
国家队	王学文	215	7
山东	魏志勇	204	8

代表队	姓名	成绩(秒)	排名
国家队	李和坤	00:21.0	1
上海	曹国生	00:24.0	2
天津	韩亮	00:22.0	3
江西	万国林	00:22.1	4
国家队	李和坤	00:21.0	5
安徽	董三其	00:21.0	5
江苏	申一杰	00:24.5	6
山西队	丁德文	00:25.0	7
山东	魏志勇	00:23.0	8
山东	魏志勇	00:21.0	8

代表队	姓名	成绩(秒)	排名
天津	韩亮	00:21.0	1
山西	魏志勇	00:21.0	2
国家队	李和坤	00:21.0	3
山西	万国林	00:21.2	4
山西队	丁德文	00:21.0	5
山东	魏志勇	00:21.0	6
江西	董三其	00:21.0	7
国家队	王学文	00:21.0	8





PRACTICAL EXAMPLE 案例介绍

9. Evaluate the periodization training process 对阶段训练进行评估

BLOOD ANALYSIS 血液分析

No.	Sex	WBC (白细胞) (L)		Hb (血红蛋白) (g/L)		Hct (红细胞压积) (%)		PLT (血小板) (10 ⁹ /L)		Remarks
		Male	Female	Male	Female	Male	Female	Male	Female	
08/04/2009	男	5.6	4.25	18	41.9	35.4	305.00	11.35	119.4	正常
08/05/2009	男	4.0	4.75	13.5	40.1	38	465.00	18.3	115.1	正常
08/06/2009	男	5.4	5.01	18.5	43	35.8	495.00	9.77	111.9	正常



PRACTICAL EXAMPLE 案例介绍

10. Readjustment 重新调整训练计划

After the **results of the different tests**, any **injury** or any **change in the competition calendar** maybe we need to adjust our training plan according the current situation.

在不同测试的结果出来后，任何伤病或比赛日程上的任何变化都可能需要我们根据目前的情况调整我们的训练计划。



PRACTICAL EXAMPLE 案例介绍



10. Readjustment 重新调整训练计划



由于疫情原因我们无法外出参加训练营，少年赛、青年赛和锦标赛都推迟了。因此，我们调整了训练计划，在4月23日、5月15日组织了队内教学赛，并在6月8日-13日赴南京实战训练，模拟比赛。

TEAM COMPETITION (23 April)

INDIVIDUAL COMPETITION (15 May)

TRAINING CAMP (Nanjing, 8-13 June)



PRACTICAL EXAMPLE 案例介绍



11. Follow the training plan 继续严格执行训练计划





12. Final evaluation 最终评估

Next week will organize a staff meeting to check the feedback about this period.

四个月的周期训练计划随着去江苏队对抗实战一周，模拟比赛强度的训练结束而全部完成。下周我们将组织一次团队会议，对这四个月的训练进行评估，并与运动员开展1对1面对面反馈。

Things to improve

Problems and possible solutions for next period

查找需要改进的地方和可能的解决方案，为下一阶段训练夯实基础。





PRACTICAL EXAMPLE 案例介绍

Create your athlete's profile 创建运动员的个人数据档案

为不同的体能能力评估创建一个带有评分表的图表。

你可以使用队伍内的数据或使用评分制，并将科学论文的数据作为参照。

Create a chart with a scoring scale for the evaluation of different capacities. You can use data from your training group and use percentiles or use data from scientific papers.

		最大摄氧量		下肢最大力量		下爆发力 (弹跳)		体脂率
		VO2 MAX	SPECIFIC GRIP ENDURANCE	MAX STRENGTH (lower body)	MAX STRENGTH (upper)	POWER (W/kg) Arms	MAX GRIP STRENGTH	% BODY FAT
SCORES	10	9	8	7	6	5	4	3
EXCELLENT	10	72.25	75	150	200	65	70	9
	9	68	63	140	190	60	65	10
VERY GOOD	8	63.75	60	130	180	55	60	11
	7	59.5	57	120	170	50	55	12
GOOD	6	55.25	54	110	160	45	50	13
	5	51	50	100	150	40	45	14
NEEDS IT	4	46.75	40	90	140	35	40	15
	3	42.5	30	80	130	30	35	16
LOW	2	38.25	20	70	120	25	30	17
	1	34	15	60	110	20	25	18
VERY LOW	0	29.75	10	50	100	15	20	19

专项抓握耐力

上肢最大力量

最大抓把力量

PRACTICAL EXAMPLE 案例介绍



Create your athlete's profile 创建你的运动员个人数据档案 谢亚东的个人数据档案



OTHER IMPORTANT ASPECTS其他重要方面



Theoretical training理论训练

- The rules, sports periodization, physiological adaptations or nutrition are some of aspects that athletes must know.
- 比赛规则、训练周期安排、生理适应、营养、反兴奋剂都是**运动员必须了解**的几个方面。教练员要组织运动员开展理论学习，首先**理解**训练计划，然后**相信**训练计划，**认真执行**训练计划。



OTHER IMPORTANT ASPECTS 其他重要方面



Rapid weight loss 快速减重

	TEAM COMPETITION	INDIVIDUAL COMPETITION	
	Weigh in 23 April 2020, 17.30 h	Weigh in 13 May 2020, 17.30 h	Random Weigh in (+5%) 13 May 2020, 08.30 h
Ran Yajing 任雅静	51	50	52.5
Zhang Min 张敏	57	56	58.8
Ma Feiyu 马菲宇	60	58	60.9
Feng Douduo 冯多多	60	58	60.9
Yang Yiyang 杨一阳	59	58	60.9
Li Xueying 李雪莹	64	62	65.1
Pu Jiani 浦佳妮	67	66	69.3
Wang Danni 王丹妮	75	74	77.7
Xu Fengyi 徐凤逸	70	68	71.4
Sun Han 孙涵	78	76	81.9
Wang Duopeng 王鄂朋	62	61	64.05
Jiang Junjie 姜俊杰	69	68	71.4
Chang Yifan 陈一帆	69	68	71.4
Zhao Junxiang 赵俊翔	75	74	77.7
Wang Shangjun 王上钧	75	74	77.7
Wu Zedong 吴泽东	76	75	78.75
Wanglin 王鑫	77	76	79.8
Zhang Zhoushan 张致山	81	80	86.1
Wang Dong 王东	91	90	96.6
Zhou Yixin 周逸欣	91	90	96.6
Yang Yixin 杨毅斌	101	100	107.1
Li Pincheng 李品正	105	100	108.15
Qiu Yixin 邱宜鑫			
Felunjun 费君君			

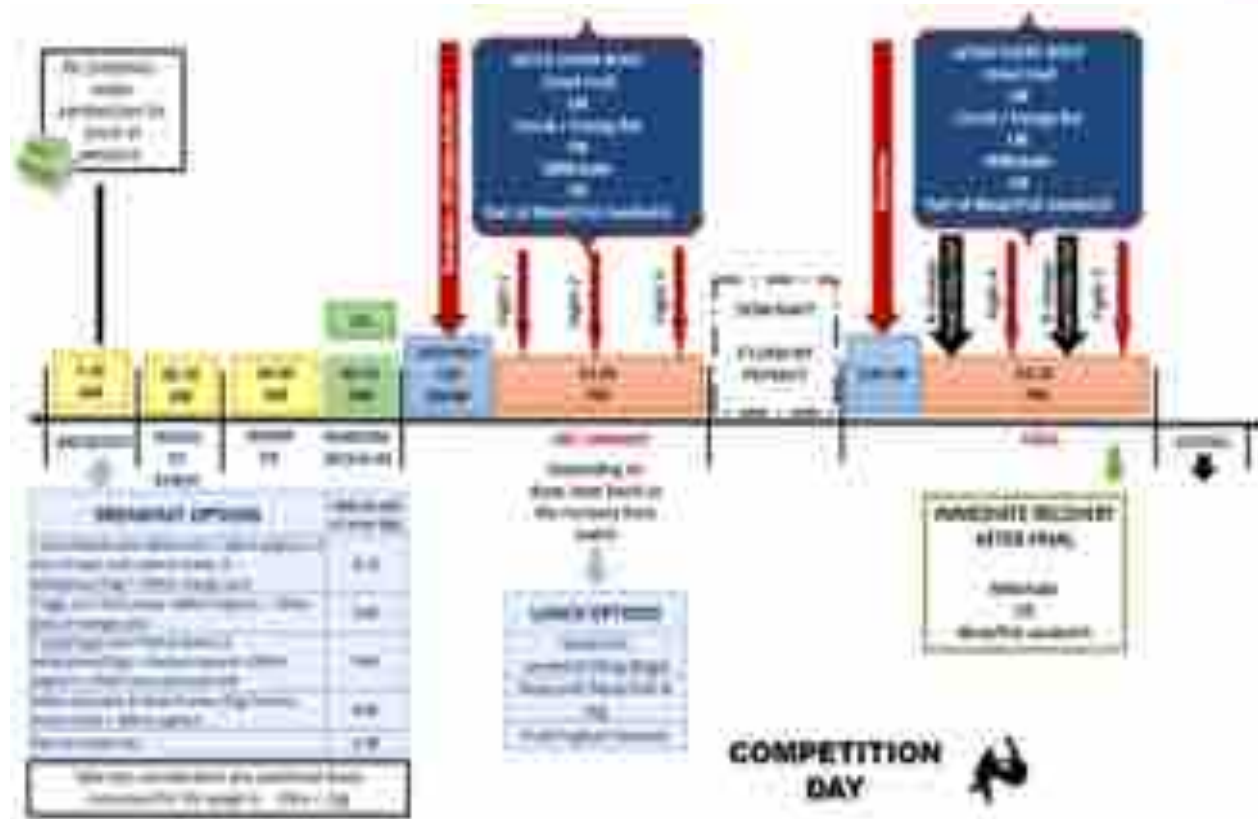
Weight loss information and icons.





OTHER IMPORTANT ASPECTS其他重要方面

Rehydratation/比赛日的补水建议 Advices for competition day



HYDRATION CHART

HYDRATED	Safe Zone	1	
		2	
		3	
DEHYDRATED	Dehydrated Zone	4	
		5	
		6	
		7	
		8	

尿液颜色

上图为比赛日当天的饮食补充建议



OTHER IMPORTANT ASPECTS 其他重要方面

Theoretical training 理论训练

ANTHROPOMETRY 人体测量学

The diagram illustrates various anthropometric measurements on a human figure, including height, weight, and body composition. It also shows a scale and a graph of body composition.

ADVICES AFTER WEIGHT IN

GOAL:

REHYDRATION FLUID: replace sweat losses
Weight yourself before and after
1kg loss = 1 litre fluid + 1.5 litres to drink

The illustration shows a row of people and several bottles of rehydration fluid in different colors (red, orange, green, blue, purple).

Judokas often engage in rapid weight loss prior to competition to gain an advantage over their lighter opponents

Judokas often employ radical approaches to induce RAPID WEIGHT LOSS, applying methods such as reduced fluid intake, caloric deficiency, increased physical activity, plastic suit training, heated room training, and sauna

The icons represent: a crossed-out glass (reduced fluid intake), a plate of food (caloric deficiency), a person on a treadmill (increased physical activity), a person in a sauna (heated room training), and a person sitting at a desk (plastic suit training).

WEEKLY PLAN

The diagram shows a weekly plan with a calendar and a bar chart. The bar chart has five bars of varying heights, representing a weekly schedule or performance metrics.

谢谢

