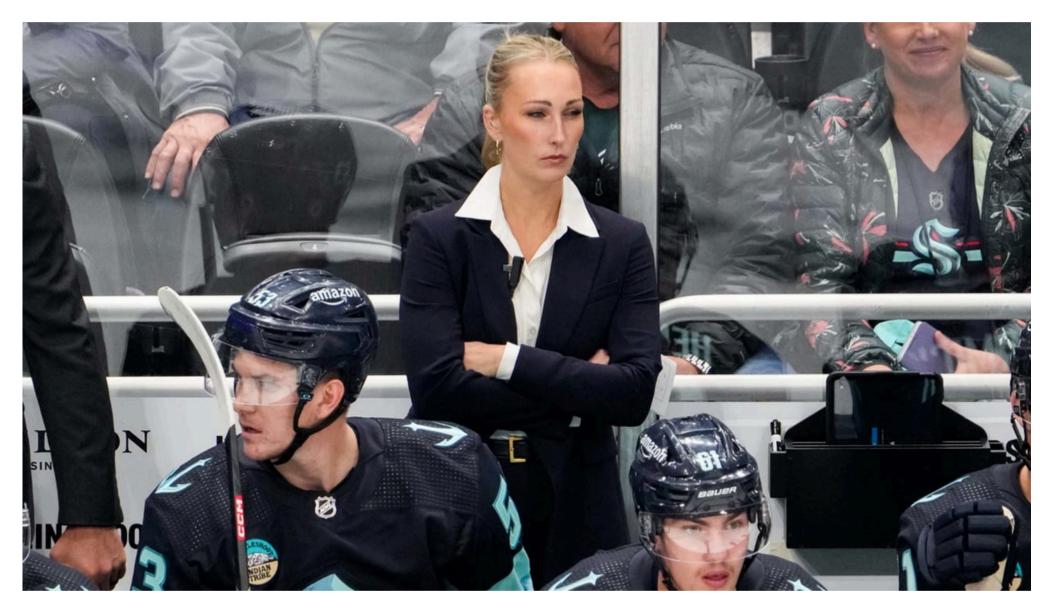
HOW TO RECOVER FASTER THAN YOUR OPPONENT



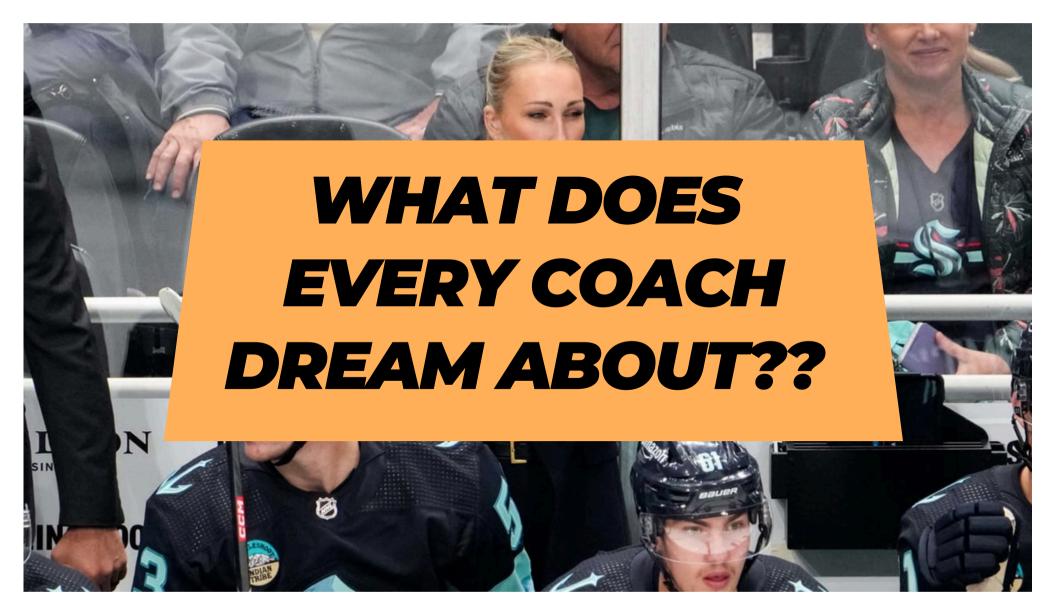
8th of January 2025, Budapest















HOW COULD MY TEAM RECOVER AS FAST AS POSSIBLE?







MGR. MARTIN ČUPKA, PHD.

PHD. DEGREE IN SPORTS NUTRITION (COMENIUS UNIVERSITY IN BRATISLAVA)

11 YEARS OF EXPERIENCE AS A SPORTS NUTRITIONIST

10 OLYMPIC ATHLETES, 21 DIFFERENT SPORTS

4000+ HOURS OF INDIVIDUAL CONSULTATIONS



WWW.MARTINCUPKA.SK M.CUPKA44@GMAIL.COM



ŠIMON NEMEC (NEW JERSEY DEVILS)

∨ martın

C čupka



JAKUB GRIGAR (OLYMPIC MEDALIST IN CANOE SLALOM)



DOMI ŠKORVÁNKOVÁ (CAPTAIN OF SLOVAK FOOTBALL TEAM)

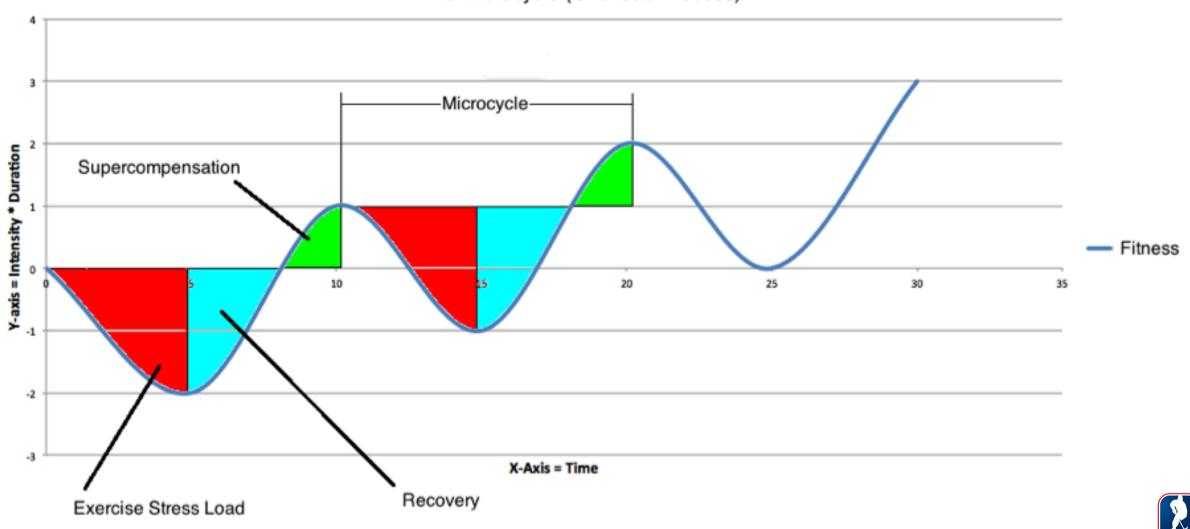


MARTIN SVRČEK (SOUDAL QUICKSTEP -WORLD TOUR CYCLING)



SUPERCOMPENSATION PRINCIPLE

The Microcycle (Overload Process)









WHAT COULD HELP MY PLAYERS RECOVER AS FAST AS POSSIBLE?







DIFFERENT WAYS HAVE DIFFERENT EFFECT OR VALUE



IF I ONLY HAVE LIMITED TIME, WHAT IS WORTH PAYING MOST ATTENTION TO?





IMAGINE A PILL THAT YOU TAKE EVERY NIGHT. THIS PILL WILL ENSURE THAT YOU WILL BE MORE BEAUTIFUL, STRONGER, SMARTER. THIS PILL IS THE BEST MEDICINE, NUTRITIONAL SUPPLEMENT AND IMMUNE BOOSTER. NOW HOLD ON. IT IS AVAILABLE FOR FREE.



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THE RECOVERY PYRAMID

Reference: S. Halson in NSCA's Essentials of Sport Science 2021

Designed by @YLMSportScience

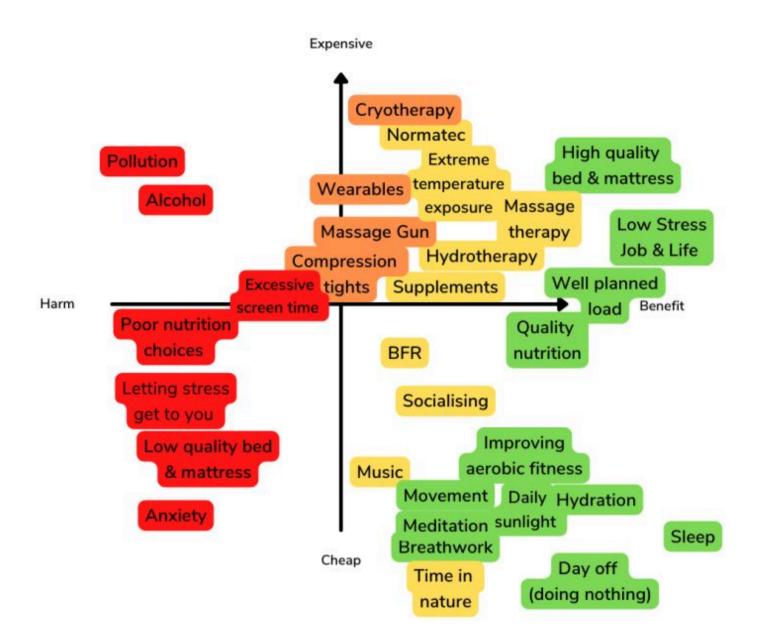






Cost-Benefit Recovery Quadrant

@drpetertierney







WHAT HAPPENS IN THE BODY DURING SLEEP? HOW DOES IT AFFECT PERFORMANCE?







WHAT ARE THE CHALENGES OF SLEEP IN ICE HOCKEY OR OTHER SPORT?



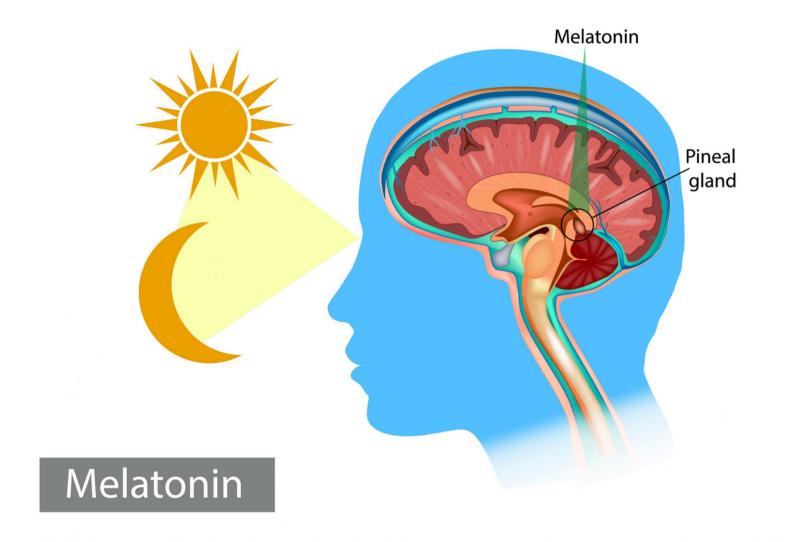


SLEEP AND HORMONES?





SLEEP AND HORMONES?



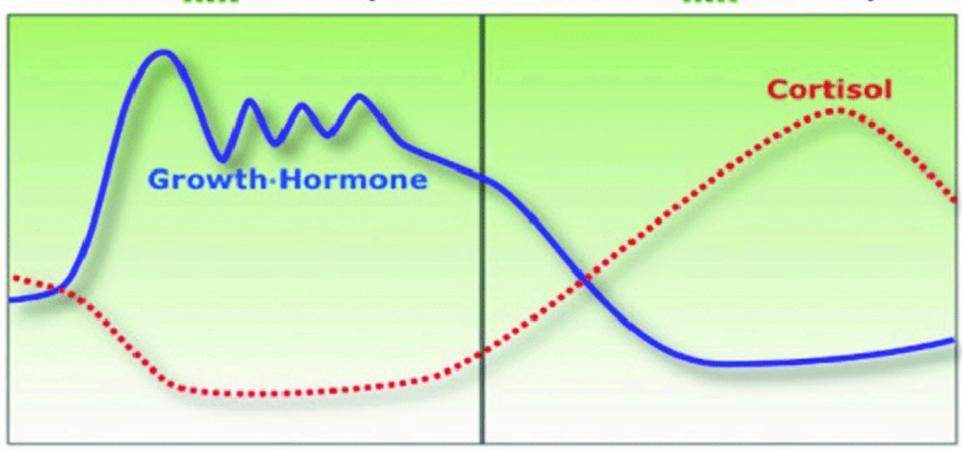




SLEEP AND HORMONES?



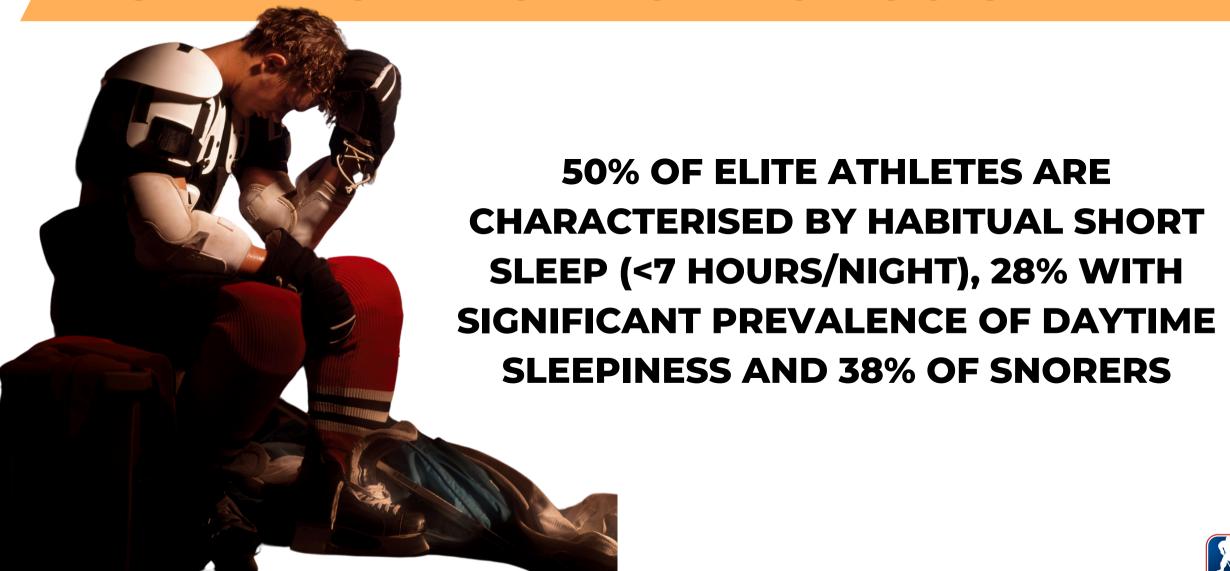
Second-1/2-of-Sleep







SLEEP IS KING - BUT NOT SO SEXY





MEASURING OF SLEEP?











MEASURING OF SLEEP?







RELIABLE FOR MEASURING TOTAL SLEEP TIME. OTHER DATA SHOULD BE INTERPRETED WITH CAUTION. SOME ATHLETES ARE PREOCCUPIED WITH SLEEP MONITOR DATA MAY INCREASE ANXIETY AROUND SLEEP AND RESULT IN WORSE SLEEP.



ENOUGH SLEEP (8+HRS) CAN:

LACK OF SLEEP (<8HRS) CAN:







Walsh, et al. 2021, Sleep and the athlete: narrative review and expert consensus recommendations

ENOUGH SLEEP (8+HRS) CAN:

LACK OF SLEEP (<8HRS) CAN:

IMPROVE PASS ACCURACY
IMPROVE SPRINT SPEED
IMPROVE SHOOTING ACCURACY
IMPROVE DECISION MAKING
IMPROVE MOOD AND MOTIVATION







Walsh, et al. 2021, Sleep and the athlete: narrative review and expert consensus recommendations

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LACK OF SLEEP (<8HRS) CAN:

IMPROVE PASS ACCURACY
IMPROVE SPRINT SPEED
IMPROVE SHOOTING ACCURACY
IMPROVE DECISION MAKING
IMPROVE MOOD AND MOTIVATION

LOWER THE IMMUNE SYSTEM
REDUCE THE PRODUCTION OF GROWTH HORMONE
REDUCE THE RECOVERY OF MUSCLE GLYCOGEN
INCREASE THE RISK OF INJURY AND ILLNESS
INCREASE PERCEIVED EXERTION







Walsh, et al. 2021, Sleep and the athlete: narrative review and expert consensus recommendations

CAN YOU SLEEP TOO MUCH?









CAN YOU SLEEP TOO MUCH?



INCREASED FREE THROW ACCURACY
FASTER SPRINT TIME
LOWER RATE OF PERCEIVED EXERTION
DECREASED FATIGUE



FASTER 15M SPEED
FASTER REACTION TIME
FASTER TURN TIME
BETTER MOOD





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ALCOHOL.
INCREASES SLEEP
PRESSURE, DISRUPTS
REM SLEEP, SLOWS
DOWN RECOVERY







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CAFFEINE. HALF-LIFE OF CAFFEINE IS 6-10 HOURS. WHEN COMBINED WITH ALCOHOL, IT IS PROLONGED EVEN MORE







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MORE (BLUE) LIGHT = LESS

MELATONIN = WORSE SLEEP =

WORSE RECOVERY.

USE BLUE LIGHT FILTER OR BLUE

LIGHT BLOCKING GLASSES.



PRE SLEEP FOOD?





EATING PROTEIN BEFORE BED CAN IMPROVE THE QUALITY AND QUANTITY OF SLEEP. THIS MEANS 20 TO 40 GRAMS OF PROTEIN RICH IN TRYPTOPHAN (SUCH AS WHEY PROTEIN OR MILK) WITHIN 1-2 HOURS BEFORE BEDTIME.

FOODS CONTAINING A HIGH CONCENTRATION OF MELATONIN (CHERRIES, PISTACHIOS) CAN SHORTEN SLEEP ONSET TIME.



7X KEY TAKEAWAYS

- 1) REGULAR WAKE-UP AND BEDTIME (EVEN DURING THE WEEKEND)
 - 2) NATURAL LIGHT EXPOSURE AFTER WAKING UP
 - 3) NAPPING (<30 MIN) OR SLEEP BANK (MORE SLEEP AHEAD OF TIME)





7X KEY TAKEAWAYS

- 1) REGULAR WAKE-UP AND BEDTIME (EVEN DURING THE WEEKEND)
 - 2) NATURAL LIGHT EXPOSURE AFTER WAKING UP
 - 3) NAPPING (<30 MIN) OR SLEEP BANK (MORE SLEEP AHEAD OF TIME)
 - 4) NO BLUE LIGHT 1-2 HOURS BEFORE BED (BLUE LIGHT FILTERS)
 - 5) PRE-SLEEP RITUALS FOR "CLEAR MIND" (READING / JOURNALING / BATH / CHAMOMILE TEA)
 - 6) FOOD (TART CHERRIES, PROTEIN ESP. TRYPTOPHAN)
 - 7) DARK AND COLD ROOM 20 'C = (FRESH AIR / THERMOMETER)





7 STEPS YOU CAN DO RIGHT NOW?



- 1) EDUCATE THE PLAYER ABOUT SLEEP MANAGEMENT
- 2) LOOK FOR REASONS RELEVANT FOR THAT PLAYER
- 3) SELF-ASSESSMENT OF SLEEP (1-10 SCALE)



7 STEPS YOU CAN DO RIGHT NOW?



- 1) EDUCATE THE PLAYER ABOUT SLEEP MANAGEMENT
- 2) LOOK FOR REASONS RELEVANT FOR THAT PLAYER
- 3) SELF-ASSESSMENT OF SLEEP (1-10 SCALE)
- 4) WHAT WOULD HAVE TO HAPPEN FOR MORE POINTS?
- 5) OFFER OPTIONS (SPECIFIC HABITS)
- 6) LET THE PLAYER CHOOSE ONE THING
- 7) AGREE ON HOW YOU'LL KNOW IT'S DONE

....REFLECT AND REPEAT



QUESTIONS OR COLLABORATION?



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