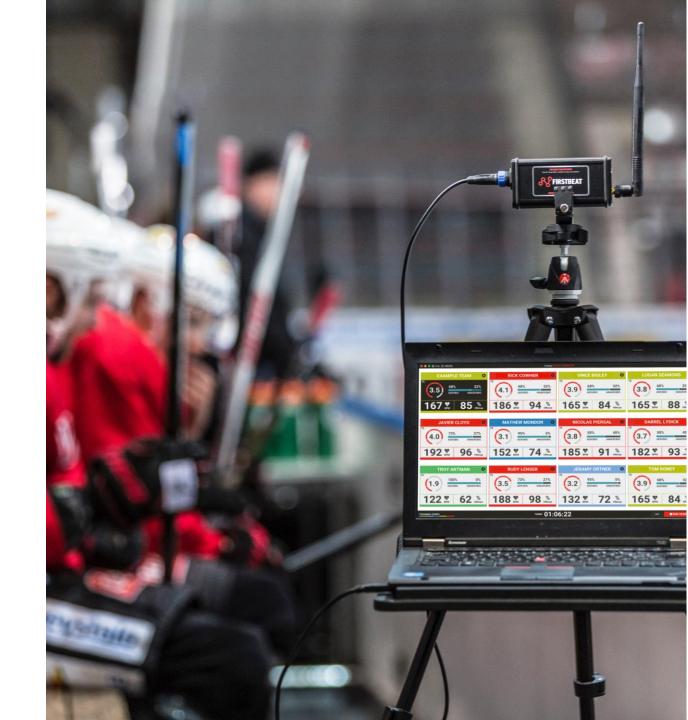
Game Load in Ice Hockey

Veli-Pekka Kurunmäki

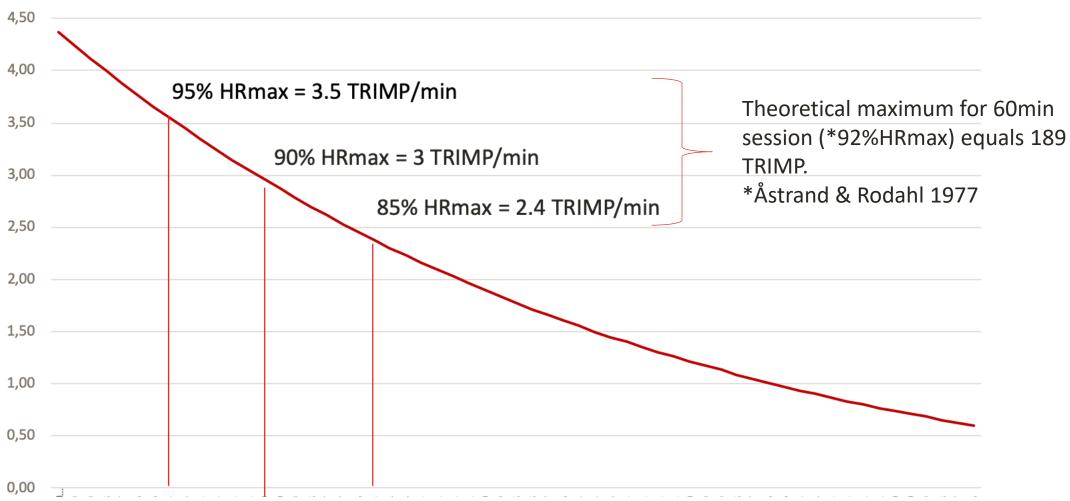


TRAIN AS YOU PLAY

- In all sports training planning starts from understranding the game requirements
- In many sports each training cycle has a specific focus to improve certain quality, such as VO2max, Maximal strength, speed etc.
- In team sports technical, tactical and skill aspects requires a lot of attention. Instead of developing a certain physiological quality, typically training consists of game speficic drills and sections.
- Trimp and Trimp/min provides useful Load and Pace metrics tools to catalog internal responses to games, drills and training sessions
- TRIMP requires sport specific scaling in order to utilize it maximally in training planning



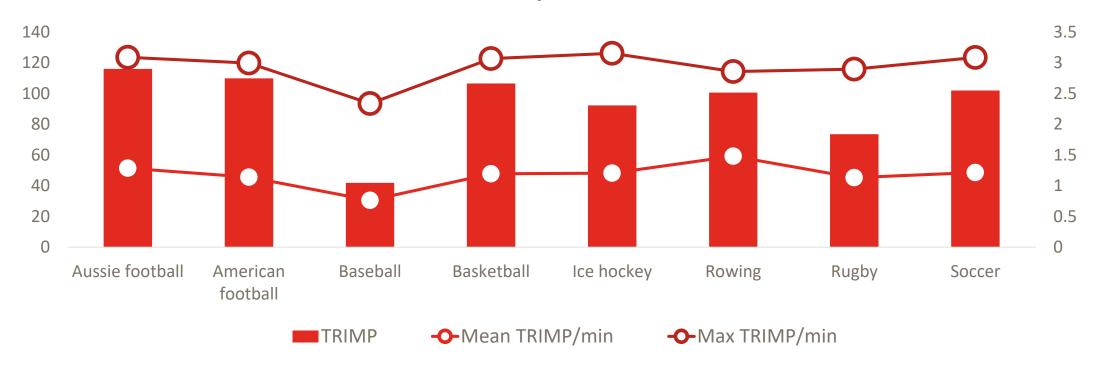
TRIMP ACCUMULATION RATE





TRIMP IN DIFFERENT SPORTS

Total TRIMP & TRIMP/min accumulation rate





TRIMP SCALE BASED ON DATA MINING

TRIMP scale

<70
EASY TRAINING

70-140 MODERATE TRAINING

>140 HARD TRAINING

TRIMP/min scale

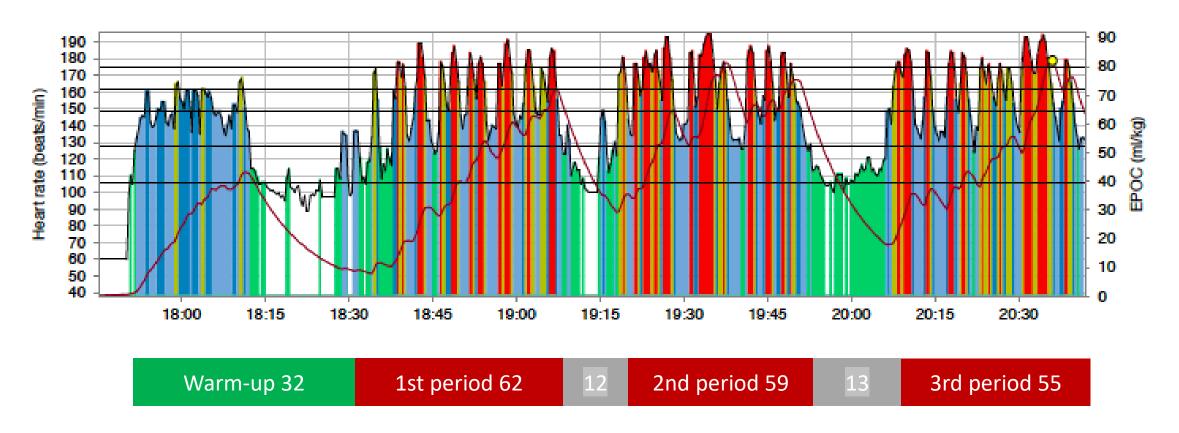
1 TRIMP/min EASY

1.5 TRIMP/min MODERATE

2.2 TRIMP/min



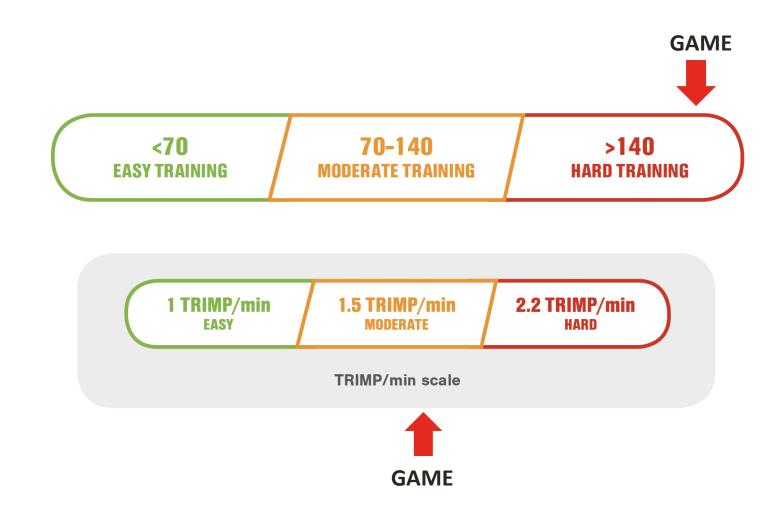
TRIMP ACCUMULATION IN GAME



- TOTAL **TRIMP 233** (175min) => 1.3 TRIMP/min
- TRIMP in 1-3 periods: 176 (105min) => 1.7 TRIMP/min

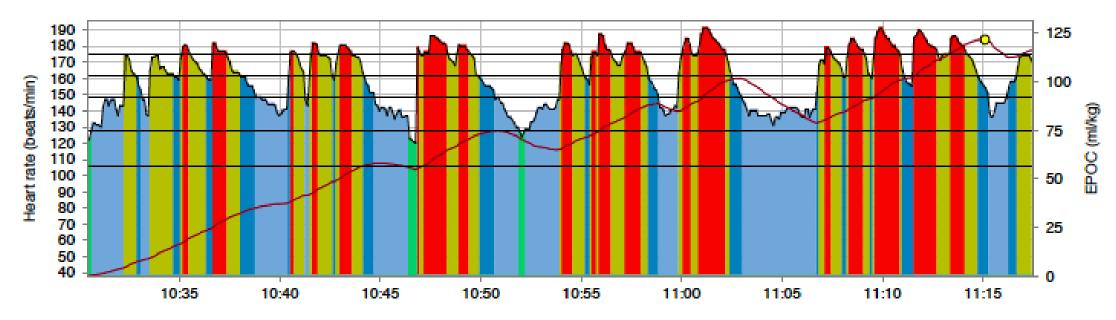


TRANSFERRING GAME REQUIREMENTS TO PRACTICE





EXAMPLE: GAME SPECIFIC PRACTICE



TRIMP 108 (47min) => 2.3 TRIMP/min

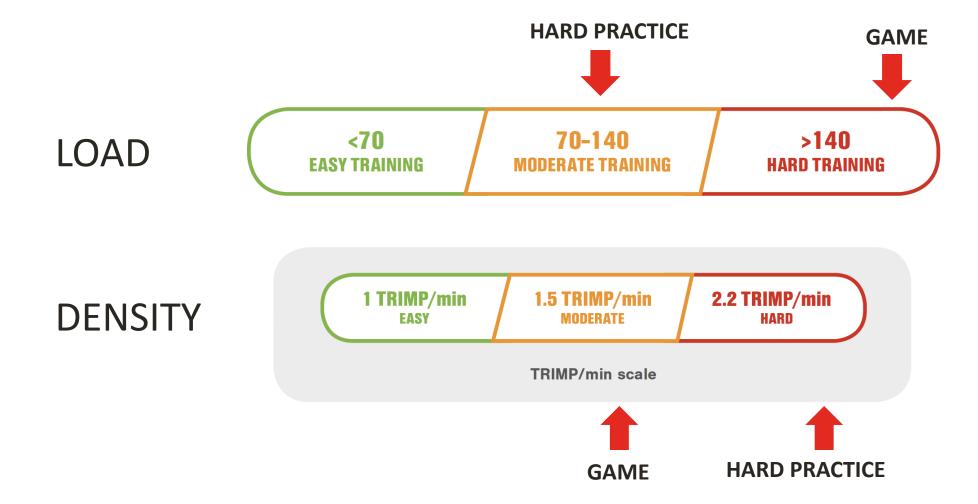
Intensity and effort needs to match. Adjustments are done with recovery breaks and training duration

KEY APPLICATIONS:

- Know how much specific sessions and drills are effecting on TRIMP accumulation => training planning
- Observe in real time individual responses: Finish the session earlier or extend recovery periods



GAME VS. PRACTICE





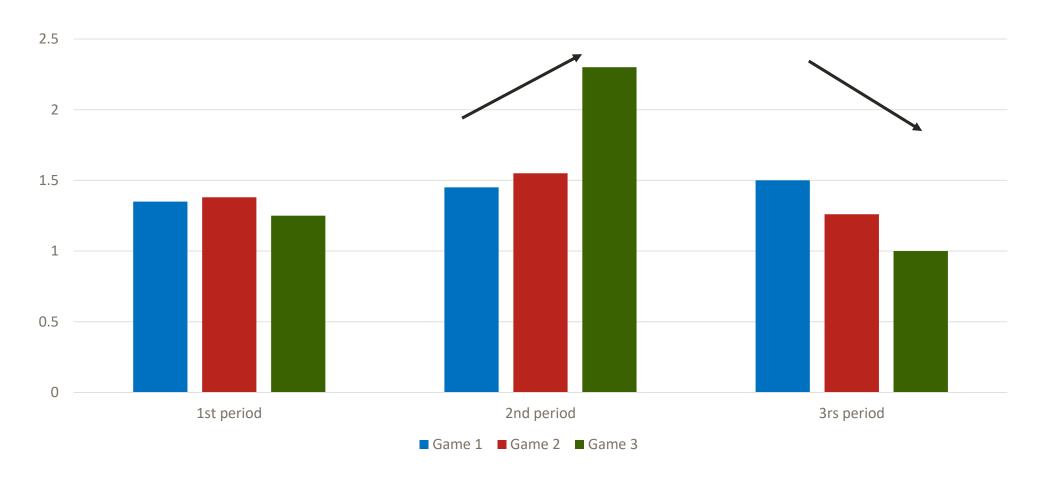
3 GAMES A WEEK

Team (25 players) average:

	HR Average	PeakHR	TE	Anaer	TRIMP	Trimp/min	HIT
Game 1	67 %	96 %	4.1	65 %	215	1.24	11.30
Game 2	65 %	95 %	4.1	64 %	238	1.27	11.54
Game 3	62 %	93 %	3.5	61 %	205	1.05	6.03



3 GAMES A WEEK: TRIMP PER PERIOD



In 1st game load is in control and tempo remains througout the game In 2nd and 3rd game load starts to increase in 2nd period and fatigue occurs clearly in 3rd period



SUMMARY

- TRIMP and TRIMP/MIN can be used to observe Load, Density and Pace of the workout / training segment.
- Sport/team specific scaling is needed
- Adjust training scedule to be ready for games
- Train as you play, but control the load wisely
- Everyone is differernt. Age, minutes in play, training history and many other unexpected factors

