

# WHAT IS HANDBALL LIKE Portugal



- ☐STOP & GO SPORT
- LOT OF CONTACTS
- □JUMPS & SHOOTING
- **LANDINGS & FALLS**
- □ ACCELERATION & STOPPING
- **DAGILITY & CHANGE OF DIRECTION**

# AGILITY, ACCELERATION, LANDINGS, CONTACTS, Portugal DECELERATIONS, JUMPING, SHOOTINGS, DECISIONS...



# HANDBALL IS STOP & GO SPORT Portugal

- ☐ CONDITIONING IS BIG MISUNDERSTANDING (STEADY PACE vs INTERVAL PROTOCOLS)
- LOOK WHATS HAPPENING IN THE GAME
- ☐GREAT NEUROMUSCULAR DEMANDS





# CONTACTS IS ALL ABOUT



- □ CORE STRENGTH
- **DYNAMIC STABILITY**
- □ ANTIROTATION vs ROTATION
- EVERY TRAINING CONTACTS
- ☐ PRIOR THE GAME (WARM UP)

### JUMPS AND SHOOTING



- □ECCENTRIC, CONCENTRIC AND ECCENTRIC CONTRACTIONS
- **CONTACT AND PUSH IS VERY OFFTEN**
- **BODY CONTROL AND STABILITY**
- □CONTRALATERAL MOVEMENT (DIAGONAL PATTERN)

#### LANDINGS AND FALLS



- ☐ AFTER JUMP SHOTS AND PUSHING
- ☐FOOT, KNEE, LUMBAR SPINE AND SCAPULAR STABILITY
- ANKLE, HIP, THORACIC SPINE AND SHOULDER MOBILITY
- **□**PROPRIOCEPTION

# ACCELERATION AND STOPING Portugal

- SPEED vs ACCELERATION
- **□**10 20 METERS
- NEWTON FIRST LOW ACTION REACTION
- □HORSE POWER (POWER IN THE GROUND) NOT REACH (STRIDE LENGTH)
- ☐ NO ACCELERATION WITHOUT STOPING

#### AGILITY AND CHANGE OF DIRECTION Portugal



- ACCELERATION, DECELERATION, CONTACT, JUMPS, LANDING...
- □ PRE-SPECIFIED AGILITY vs RANDOM AGILITY
- **TIMING**
- ABILITY TO MAKE DECISIONS IN A SHORT TIME
- NEUROMUSCULAR ACTIVATION

#### CONCLUSION



- **MAIN THOUGHT?**
- SINGLE LEG STRENGTH
- ☐UNILATERAL OR CONTRALATERAL STRENGTH TRAINING
- □ ACTION-REACTION (STRAIGHT ACCELERATION, LATERAL AGILITY
- ☐CONTACT, JUMPS, STOPPING, LANDINGS... ALL UNILATERAL

## QUESTIONS?



- WHY WE IN OUR TRAININGS PRIMARY USE BILATERAL STRENGTH PROGRAM WITH EMPHASIS ON BODY BUILDING TEHNIC?
- ☐ SMALL AMOUNT OF CONTACT (OR NO CONTACT)
- LOTS OF JUMPING AND LOTS OF SHOOTING
- NO LANDINGS, ECCENTRIC CONTRACTION AND NO PROPRIOCEPTIONS
- □ SPEED INSTEAD ACCELERATION
- □ SPECIFIC ENDURANCE (LONG STADY PACE vs INTERVAL)

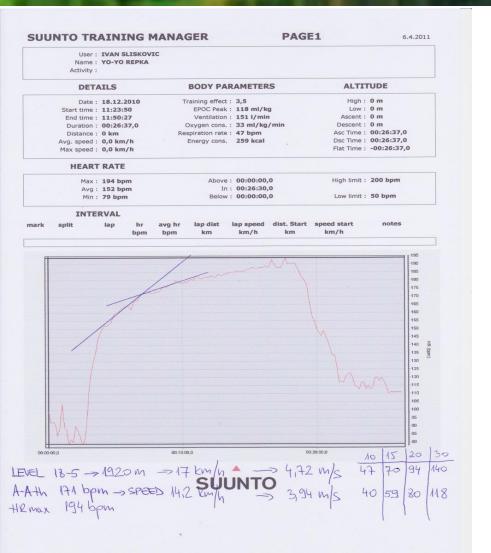
#### **ANSWERS!**

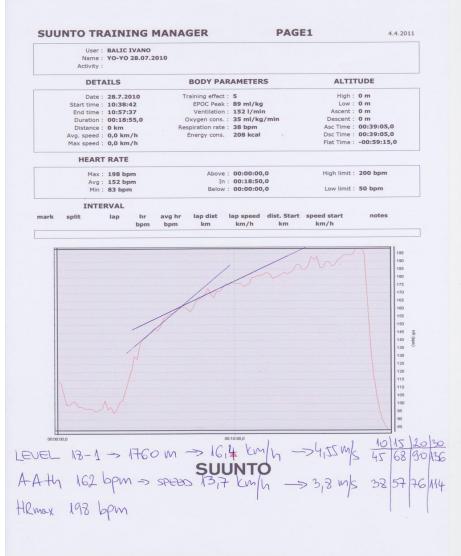


- ☐ FOCUS ON SINGLE LEG STRENGTH AND CONTRALATERAL ACTIVATION
- CONDITIONING THROUGH INTERVAL PROTOCOLS
- ☐ HOW MANY JUMPS AND SHOOTS IS ENOUGH?
- □ ECCENTRIC CONTRACTION (LEGS AND ARMS)
- □RANDOM AGILITY WITH TIMING AND ABILITY TO MAKE DECISIONS IN A SHORT TIME

#### YO YO RECOVERY

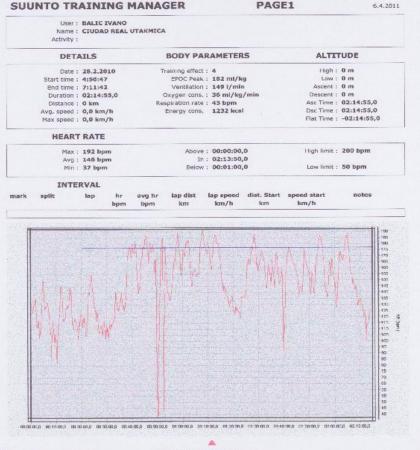


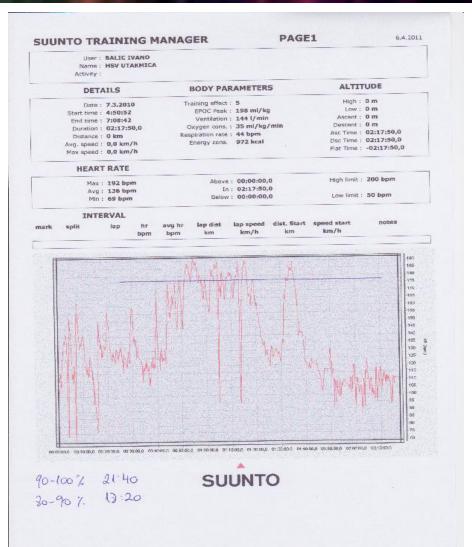


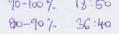


#### HANDBALL GAME









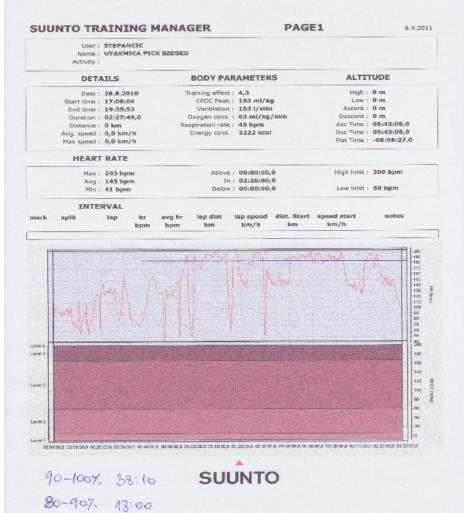
SUUNTO

#### HANDBALL GAME



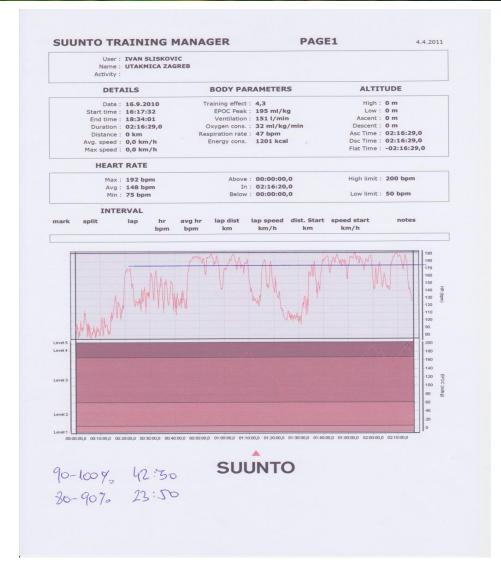
#### SUUNTO TRAINING MANAGER PAGE1 6.4.2011 User : STEPANCIC Name: UTAKMICA CIMOS KOPER Activity: **BODY PARAMETERS** ALTITUDE DETAILS Training effect: 3,9 High: 0 m Date : 20 8 2010 EPOC Peak: 155 ml/km Low: 0 m Start time: 19:38:59 Ventilation: 1721/mln Ascent: 0 m End time: 22:21:46 Oxygen cons.: 64 ml/kg/mln Descent : 0 m Duration: 02:42:47.0 Asc Time: 02:42:47,0 Distance : 0 km Respiration rate: 50 bpm Energy cons. 2106 kcal Osc Time: 02:42:47,0 Avg. speed: 0,0 km/h Flat Time: -02:42:47,0 Max speed: 0,0 km/h HEART RATE High limit: 200 born Max : 204 bpm Above : 00:01:20.0 In: 02:41:20.0 Avg : 137 bpm Below: 00:00:00,0 Low limit: 50 bpm Min : 72 bpm INTERVAL lap dist lap speed dist. Start speed start notes split km km/h km bom bom 100 140 SUUNTO 90-100% 24:20

30-90% 19:00



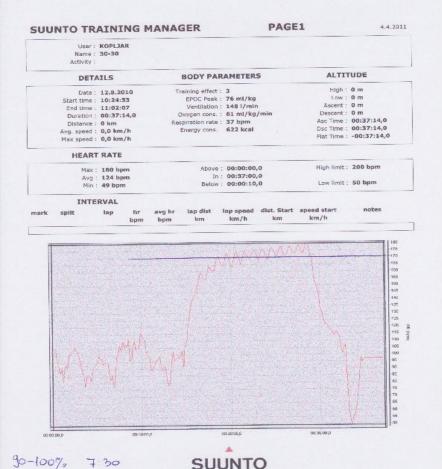
### HANDBALL GAME





#### **PROTOCOLS**





20-90% 5:50



#### **EXAMPLES**







# THANKS FOR YOUR TIME... TO DO TO THE







