Fig. 1: Genetic Damage Parameters in Players and Controls
Fig. 2a: Oxidative Stress Levels in Players and Controls

- **Malondialdehyde (µmol/l)**
- **Total Antioxidant Capacity (µmol/Trolox)**
- **Total Oxidant Status (µmol/H₂O₂)**
- **Oxidative Stress Index**

**Fig. 2a: Oxidative Stress Levels in Players and Controls**
Fig. 2b: Superoxide Dismutase Levels in Players and Controls
<table>
<thead>
<tr>
<th>Sports</th>
<th>Gender</th>
<th>Sample Size</th>
<th>Males</th>
<th>Females</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handball Players</td>
<td>Males</td>
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<td>35</td>
<td>15</td>
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<tr>
<td>Handball Players</td>
<td>Females</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baseball-Softball Players</td>
<td>Males</td>
<td>50</td>
<td>30</td>
<td>20</td>
</tr>
<tr>
<td>Baseball-Softball Players</td>
<td>Females</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Hockey Players</td>
<td>Males</td>
<td>50</td>
<td>25</td>
<td>25</td>
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<tr>
<td>Hockey Players</td>
<td>Females</td>
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<td></td>
</tr>
<tr>
<td>Runners</td>
<td>Males</td>
<td>50</td>
<td>30</td>
<td>20</td>
</tr>
<tr>
<td>Runners</td>
<td>Females</td>
<td></td>
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</tr>
</tbody>
</table>

Fig. 3: Genetic Damage Stratified by Gender as a Function of Different Sports
Fig. 4a: Oxidative Stress Levels Stratified by Gender as a Function of Different Sports
Fig. 4b: Superoxide Dismutase (U/ml) Levels Stratified by Gender as a Function of Different Sports
Fig. 5a: Lipid Levels Profile of Study Participants
Fig. 5b: Atherogenic Indices of Study Participants
Fig. 6a: Lipid Levels Stratified by Gender as a Function of Different Sports
**Fig. 6b: Atherogenic Indices Stratified by Gender as a Function of Different Sports**

- **Very Low Density Lipoprotein**
  - Handball Players (n=45) Males (n=25)
  - Handball Players (n=45) Females (n=20)
  - Baseball-Softball Players (n=36) Males (n=21)
  - Baseball-Softball Players (n=36) Females (n=15)
  - Hockey Players (n=20) Males (n=10)
  - Hockey Players (n=20) Females (n=10)
  - Runners (n=25) Males (n=17)
  - Runners (n=25) Females (n=8)

- **TC/HDL**

- **LDL/HDL**
Fig. 7: Oxidized DNA Damage in Study Participants

Mean SEM

- Oxidized FPG Per cent Tail DNA
- Oxidized FPG Tail Moment
- Oxidized FPG Olive Tail Moment
- Oxidized EndoIII Per cent Tail DNA
- Oxidized EndoIII Tail Moment
- Oxidized EndoIII Olive Tail Moment
- Total Oxidized Per cent Tail DNA
- Total Oxidized Tail Moment
- Total Oxidized Olive Tail Moment

Sportspersons (n=50) Males
Sportspersons (n=50) Females
Healthy Controls (n=50) Males
Healthy Controls (n=50) Females
Fig. 8: Oxidative DNA Damage in Hockey Players and Runners Stratified by Gender
Fig. 9: Genetic Damage in Different Sport Types

- Handball Players (n=50)
- Baseball-Softball Players (n=50)
- Hockey Players (n=50)
- Runners (n=50)
Fig. 10a: Oxidative Stress Levels in Different Sport Types

- **Handball Players**
- **Baseball-Softball Players**
- **Hockey Players**
- **Runners**

**Measures:**
- Malondialdehyde (µmol/l)
- Total Antioxidant Capacity (µmol/Trolox)
- Total Oxidant Status (µmol/H2O2)
- Oxidative Stress Index

**Figure Description:**
- The graph compares oxidative stress levels among different sports: Handball Players, Baseball-Softball Players, Hockey Players, and Runners.
- Variables include Malondialdehyde, Total Antioxidant Capacity, Total Oxidant Status, and Oxidative Stress Index.

**Note:** The graph illustrates mean values with SEM (Standard Error of the Mean) error bars.
Fig. 10b: Superoxide Dismutase Levels in Different Sport Types

- Handball Players
- Baseball-Sofball Players
- Hockey Players
- Runners

Superoxide Dismutase (U/ml)

Fig. 10b: Superoxide Dismutase Levels in Different Sport Types
Fig. 11a: Lipid Levels of Different Sport Types

- Handball (n=45)
- Baseball-Softball (n=36)
- Hockey (n=20)
- Runners (n=25)

**Graph Key:**
- **Triglycerides**
- **Total Cholesterol**
- **High Density Lipoprotein**
- **Low Density Lipoprotein**
- **Very Low Density Lipoprotein**

**Axes:**
- **Y-axis:** Mean SEM
- **X-axis:** Types of Lipids

**Legend:**
- Handball: Blue
- Baseball-Softball: Red
- Hockey: Green
- Runners: Purple
Fig. 11b: Atherogenic Indices of Different Sport Types

- **TC/HDL**
  - Handball Players (n=45)
  - Baseball-Softball Players (n=36)
  - Hockey Players (n=20)
  - Runners (n=25)

- **LDL/HDL**

- **TG/HDL**
Fig. 12: Oxidative DNA Damage in Hockey Players and Runners