

KFV EXPOSURE

INTRODUCTION TO THE EXPOSURE REFERENCE SURVEY

EU SAFETY 2022

VIENNA 23-24.06 2022

CARL NEUMAYR

What is the Exposure survey?

Accident Prevention ➡ Risk-assessment ➡ Probability of a specific outcome as a percentage of all events: Accident
➡ Probability of specific consequences as a percentage of the specific outcome: serious injury/death

Statistics about accidents

- IDB (Injury Data Base)
 - Sports
 - Recreation
 - Household
- UDM (Accident Data Management)
 - Traffic

- Continuous statistics
- Long-term studies
- Trends
- Comparable between different fields

Statistics about habits

- Focus
- Comparability:
 - Different fields
 - Long term
 - To the IDB and UDM

- Practicability:
 - Cost-efficient
 - Sustainable
 - Simple

Home/Recreation/Sport

- **20 Sports/Activities**

- Frequency
- Hours/week
- Days/year

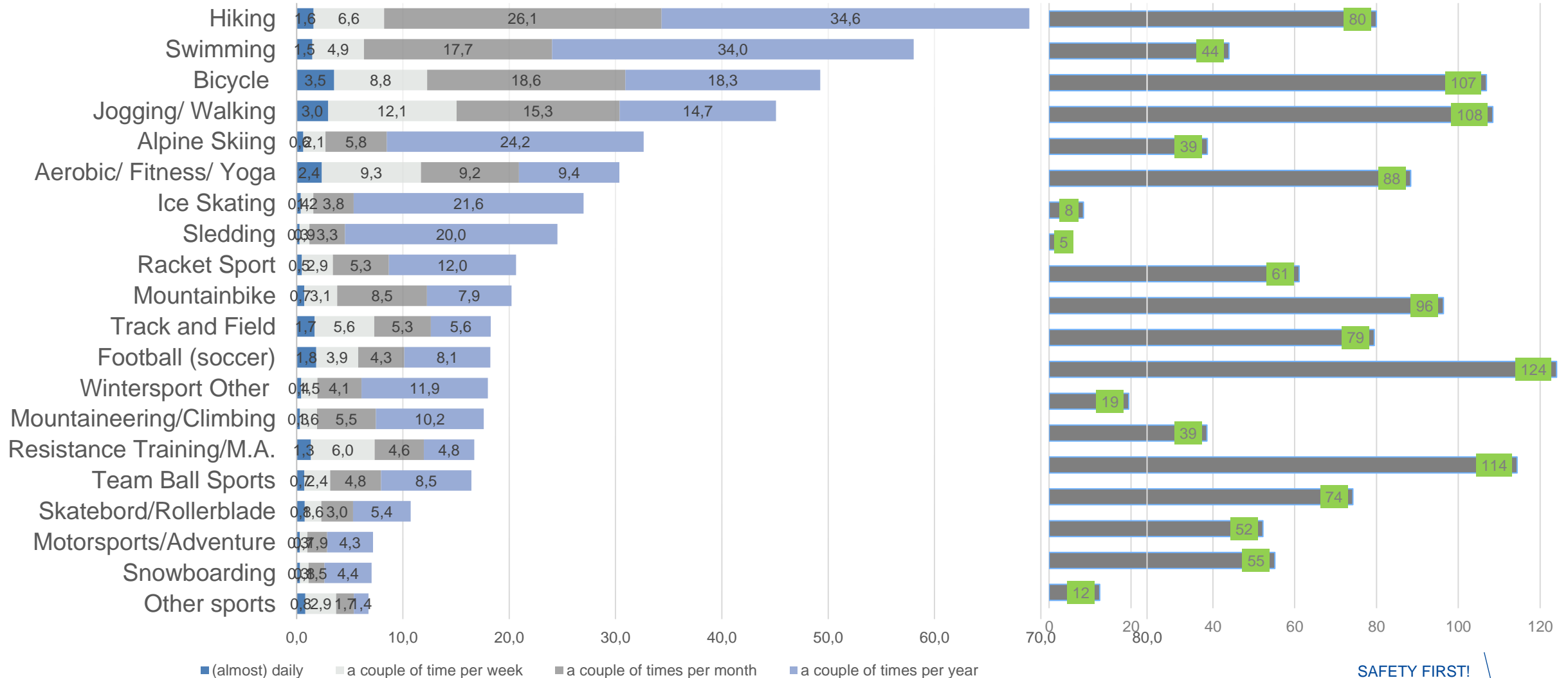
- **Accidents**

- Frequency
- Treatment
- Area

- **Survey**

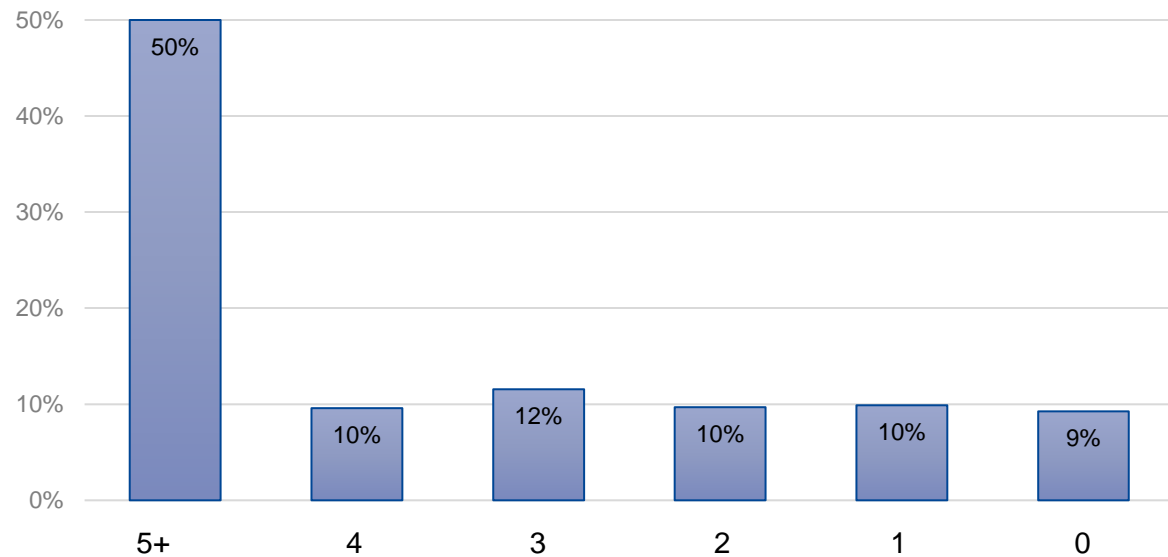
- Representative for Austrian Population (6 years plus)
- started in 2020
- 2 waves per year
- N= 2500
- 40% CATI 60% CAWI

Sport activity: frequency and hours/year

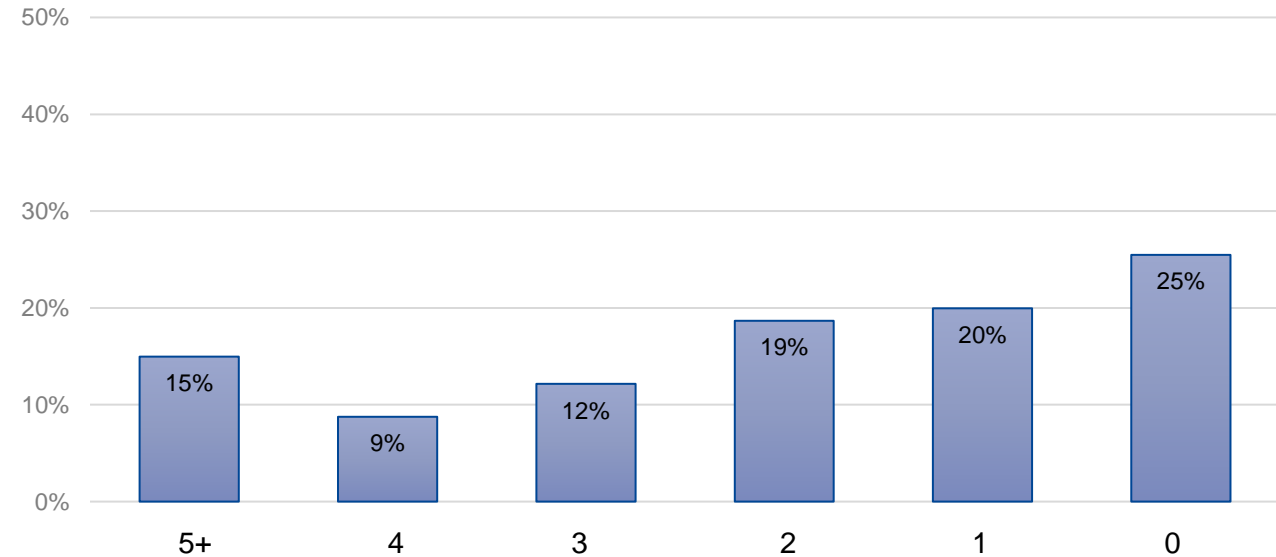


Sport activity: Number of practiced Sports

% of People by number of Sports practiced



% of People by number of Sports practiced regularly



Binary correlations of different sports

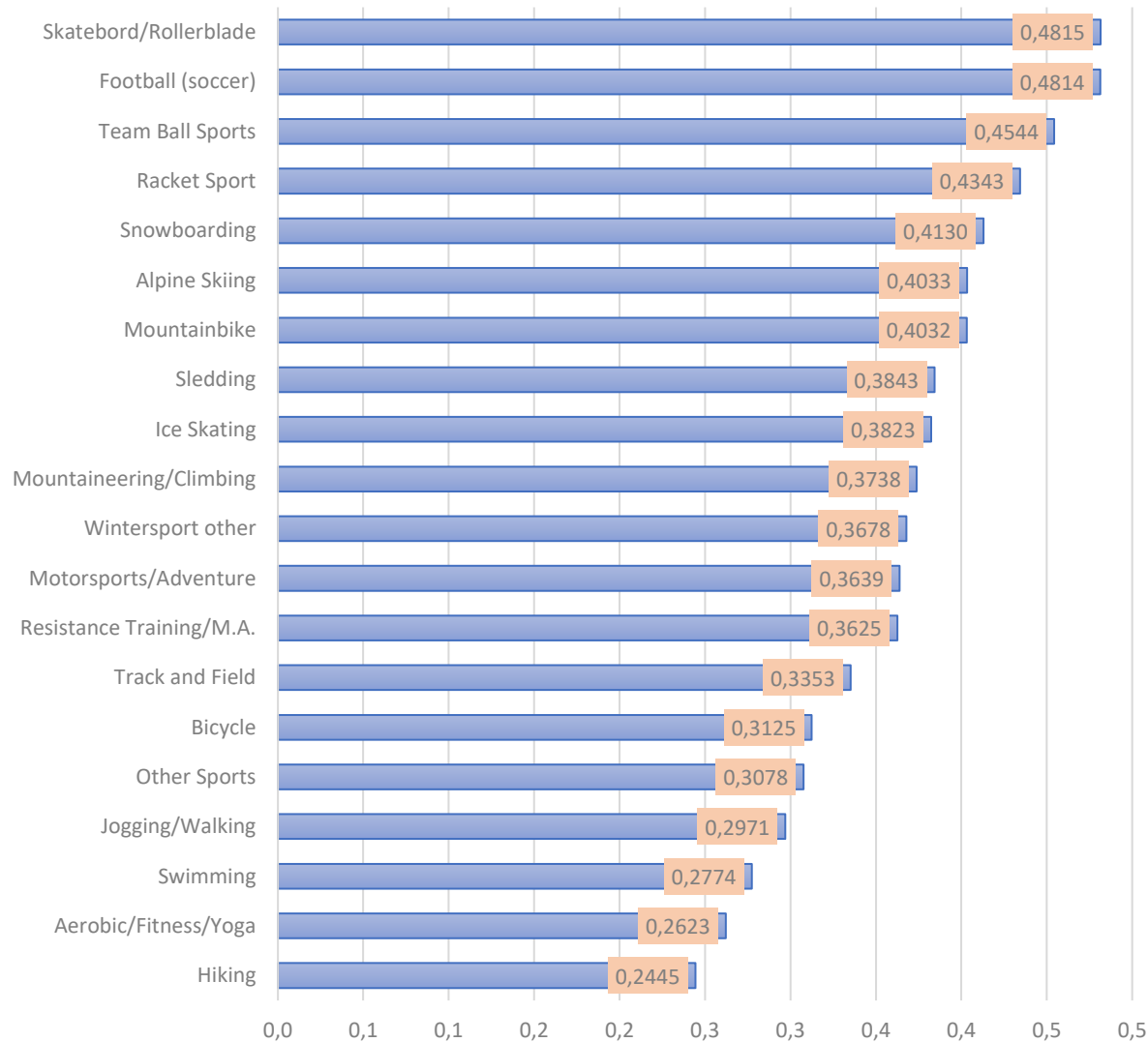
Football	Team Ball Sports	Alpine Skiing	Snow boarding	Sledding	Ice Skating	Wintersport other	Bicycle	Mountain bike	Hiking	Mountaineering/Climbing	Swimming	Jogging/Walking	Resistance Training	Racket Sports	Aerobic/Fitness/ Yoga	Track and Field	Skatebord/ Rollerblade	Motorsports/ Adventure	Other Sports
Football	0,525	0,268	0,342	0,312	0,332	0,249	0,222	0,274	0,110	0,222	0,195	0,209	0,259	0,371	0,073	0,272	0,373	0,281	-0,024
	Team Ball Sports	0,308	0,381	0,357	0,364	0,328	0,249	0,313	0,148	0,279	0,248	0,253	0,260	0,426	0,163	0,367	0,410	0,357	0,019
		Alpine Skiing	0,326	0,445	0,357	0,353	0,267	0,331	0,222	0,294	0,261	0,206	0,164	0,313	0,116	0,159	0,239	0,288	-0,003
			Snow boarding	0,392	0,351	0,340	0,167	0,319	0,145	0,337	0,185	0,178	0,327	0,282	0,182	0,270	0,386	0,465	0,036
				Sledding	0,507	0,380	0,274	0,334	0,280	0,327	0,331	0,219	0,204	0,327	0,195	0,257	0,363	0,307	-0,004
					Ice Skating	0,305	0,271	0,267	0,200	0,266	0,390	0,221	0,241	0,343	0,220	0,283	0,411	0,265	-0,001
						Wintersport other	0,311	0,430	0,260	0,347	0,246	0,262	0,249	0,246	0,202	0,234	0,281	0,312	0,025
							Bicycle	0,382	0,309	0,201	0,340	0,288	0,180	0,259	0,150	0,184	0,218	0,167	0,027
								Mountain bike	0,227	0,370	0,201	0,258	0,259	0,281	0,141	0,193	0,266	0,331	0,006
									Hiking	0,267	0,325	0,284	0,151	0,207	0,176	0,146	0,156	0,174	0,017
										Mountaineering/Climbing	0,216	0,240	0,260	0,255	0,182	0,230	0,274	0,357	0,061
											Swimming	0,302	0,180	0,259	0,232	0,216	0,258	0,214	0,001
												Jogging/Walking	0,274	0,288	0,287	0,212	0,197	0,180	0,021
													Resistance Training	0,291	0,275	0,230	0,305	0,339	0,034
														Racket Sports	0,230	0,269	0,350	0,312	0,030
															Aerobic/Fitness/ Yoga	0,238	0,210	0,178	0,047
																Track and Field	0,410	0,250	0,067
																	Skatebord/ Rollerblade	0,376	0,065
																		Motorsports/ Adventure	0,087
																			Other Sports

Athlete Types

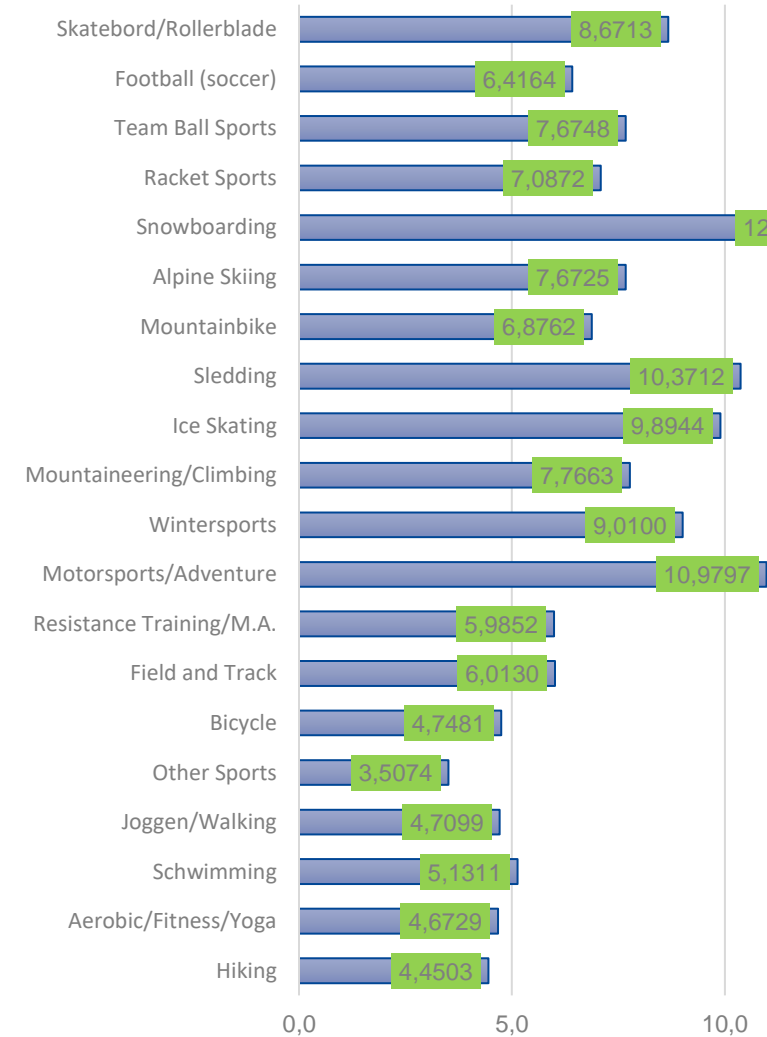
Factor Analysis	Adventure	Game/Fun	Recreatio	Fitness	NA
Snowboarding	0,653	0,358		0,246	
Alpine Skiing	0,646	0,202			
Wintersport other	0,616		0,278		
Sledding	0,598	0,357	0,210		
Mountainbike	0,594		0,381		
Motorsports/Adventure	0,590	0,344		0,264	
Mountaineering/Climbing	0,571			0,208	
Football		0,688			
Team Ball Sports	0,239	0,667			
Skatebord/ Rollerblade	0,254	0,637			
Track and Field		0,577	0,230	0,212	
Ice Skating	0,394	0,510			
Racket Sports	0,292	0,424			
Bicycle			0,685		
Hiking	0,290		0,578		
Swimming		0,301	0,557		
Aerobic/ Fitness/ Yoga				0,734	
Resistance Training				0,622	
Joggen/Walking			0,460	0,472	
Other Sports					0,928

Accidents per active Sport

Average number of sports accidents, by specific sports
(all sport accidents, did not necessarily happen at this sport)



Average number of sports practiced by specific sports



Risk assessment

