

MANAGING DATA AND ANALYSIS IN A EUROPEAN PROJECT: INJURY SURVEILLANCE AND BURDEN ASSESSMENT

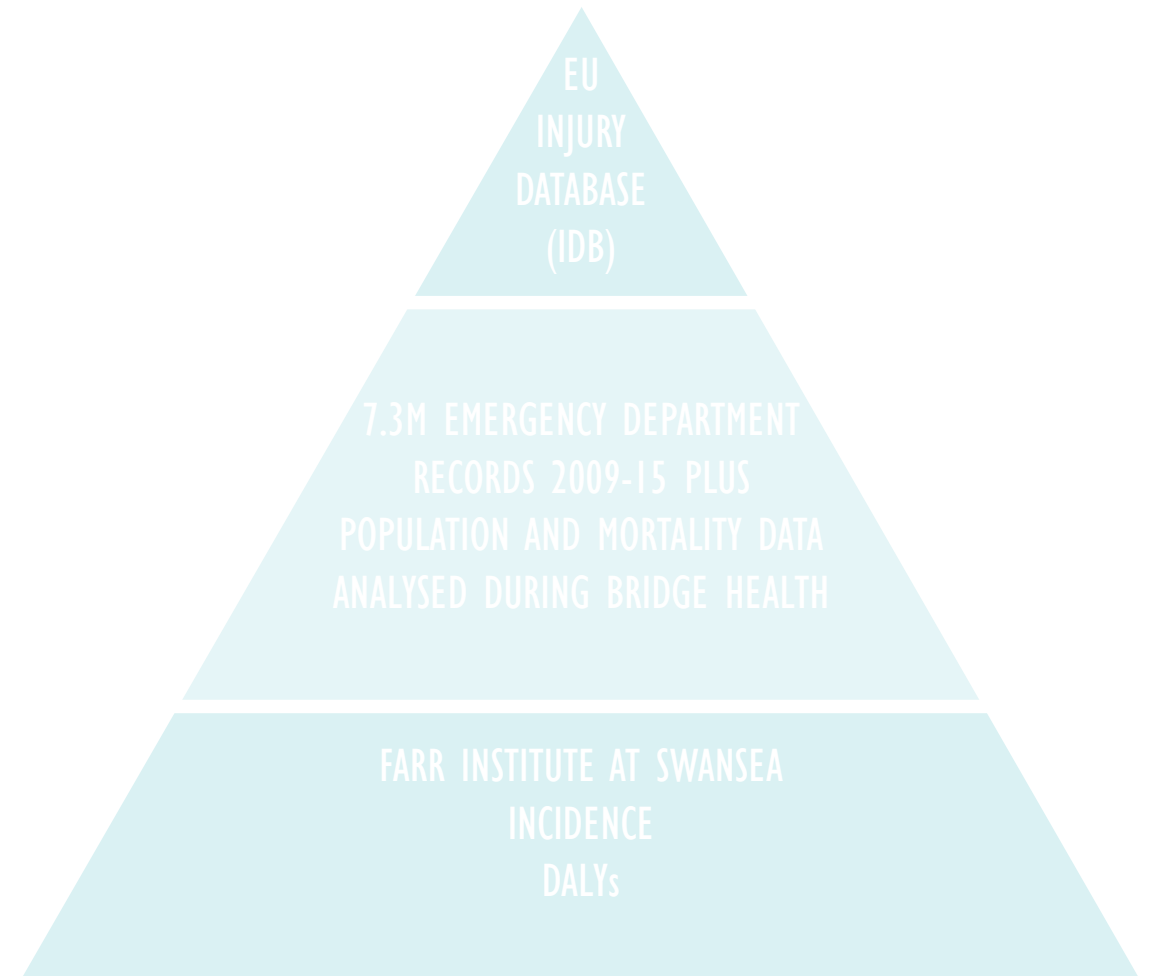
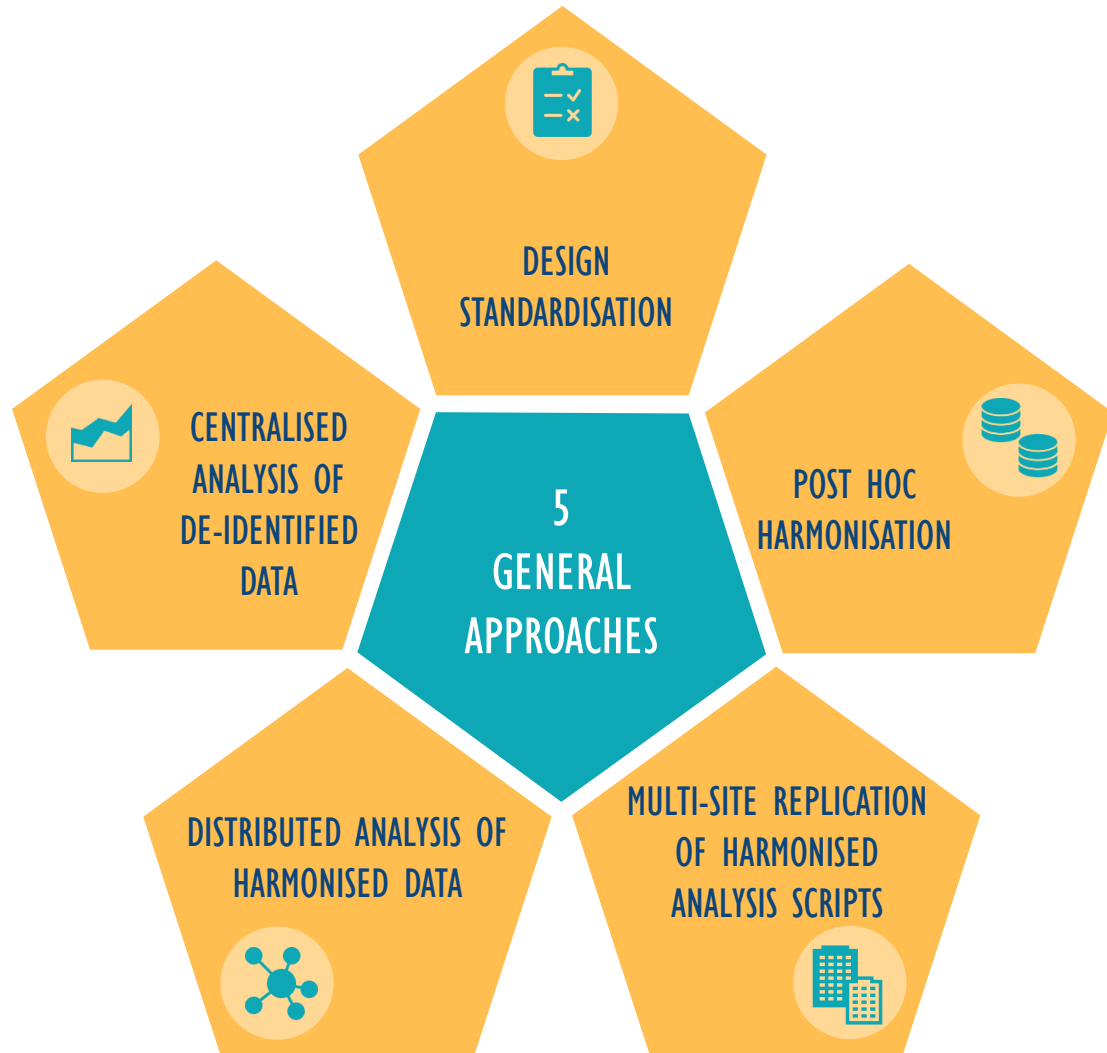
RONAN A LYONS, SAMANTHA TURNER, ANGHARAD WALTERS, JANE LYONS, ASHLEY AKBARI, WIM ROGMANS, RUPERT KISSER, BJARNE LARSEN, HUIB VALKENBERG,
DRITAN BEJKO, ROBERT BAUER, MONICA STEINER, GABRIELE ELLSAESSER



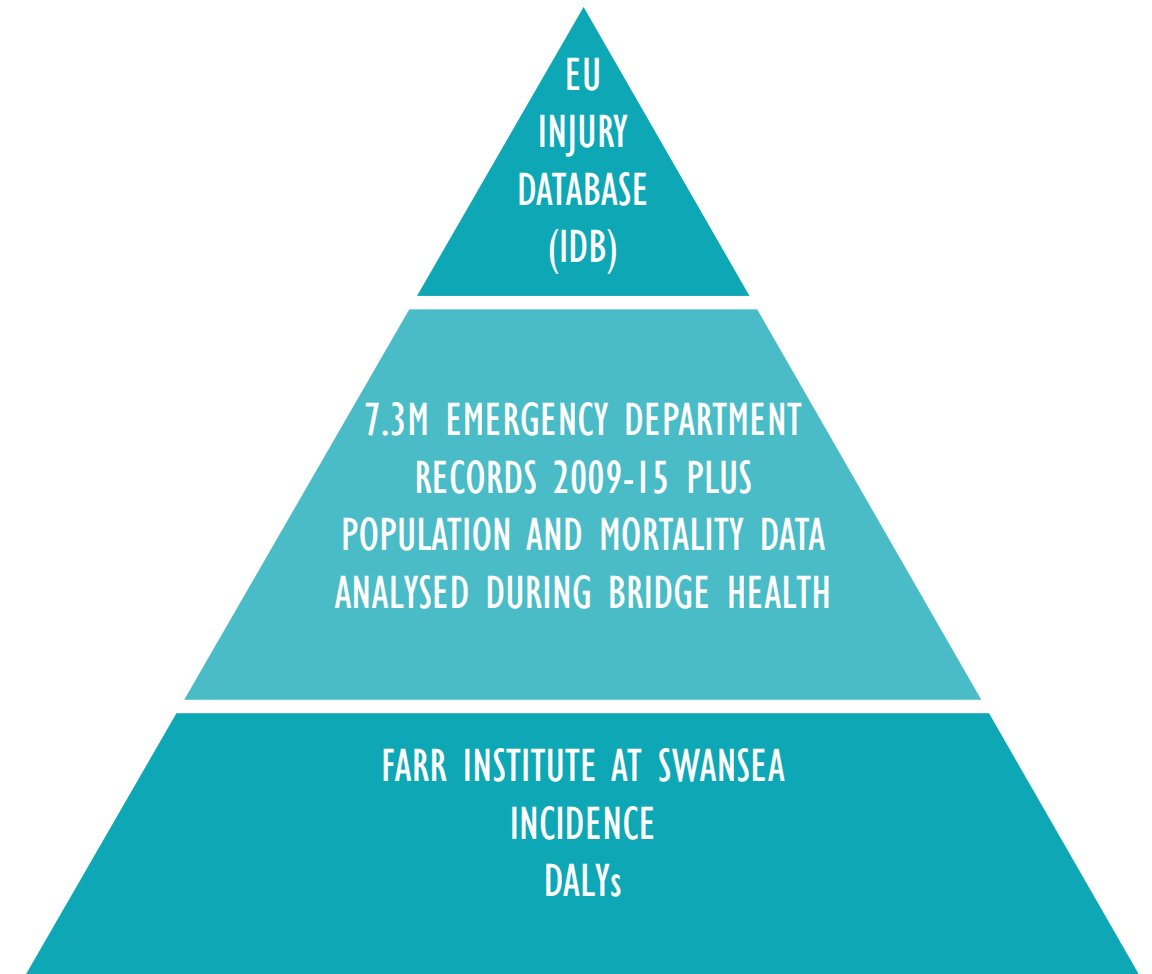
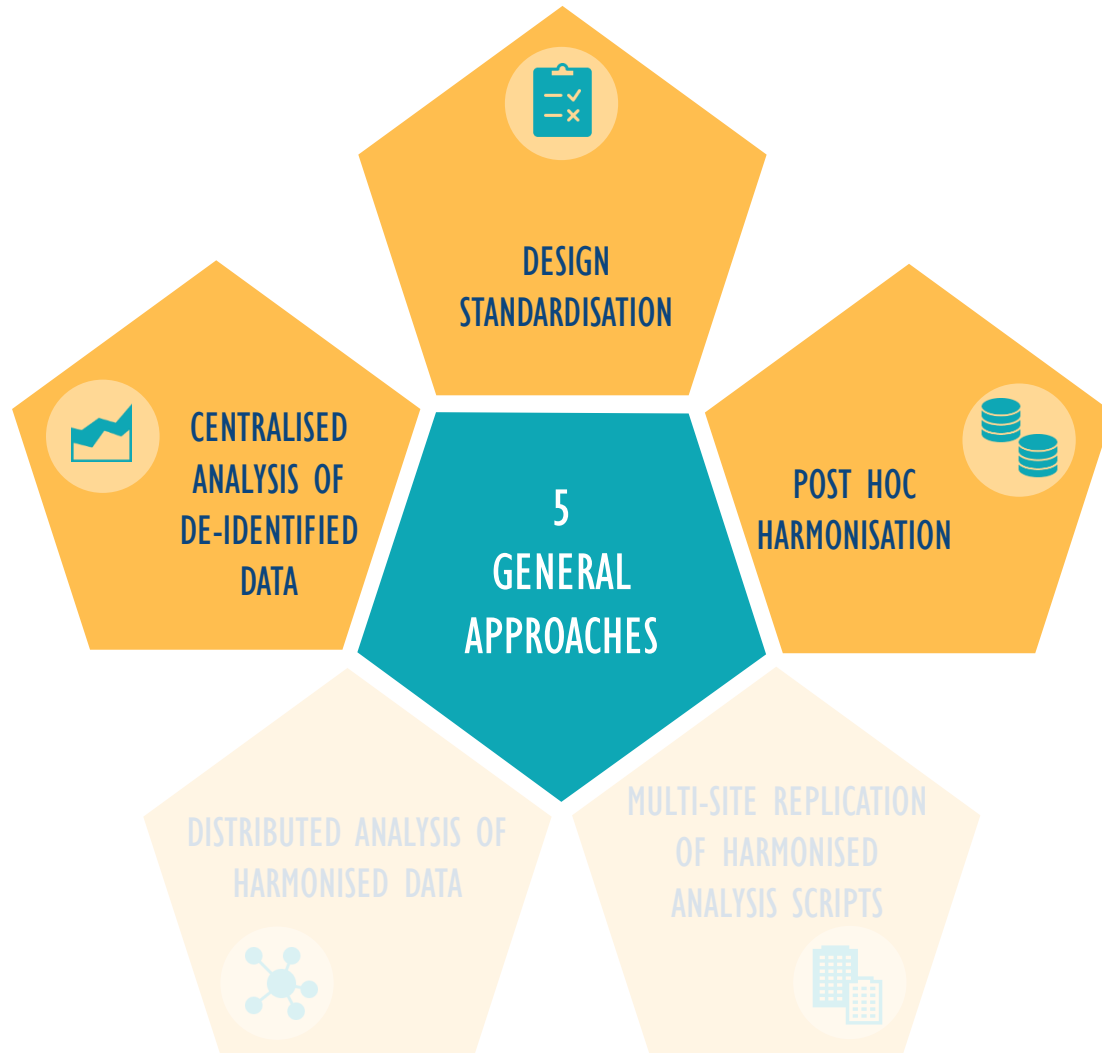
Swansea University Medical School
Ysgol Feddygaeth Prifysgol Abertawe



CROSS NATIONAL COMPARISONS AND ANALYSIS



CROSS NATIONAL COMPARISONS AND ANALYSIS



BACKGROUND

**EMERGENCY DEPARTMENT
ATTENDANCES**

**HOSPITAL ADMISSIONS
DALY**

DEATHS

METHODS

$$\text{DALY} = \text{YEARS LIFE LOST (YLL)} + \text{YEARS LOST DUE TO DISABILITY (YLD)}$$

ED ATTENDANCES
(NOT ADMITTED)



EMERGENCY DEPARTMENT
DATA RECORDED IN THE
IDB MINIMUM DATA SET

YLD

ED ATTENDANCES
(ADMITTED)



EMERGENCY DEPARTMENT
DATA RECORDED IN THE
IDB MINIMUM DATA SET

YLD

FATAL INJURY
DATA



WORLD HEALTH
ORGANISATION EUROPEAN
DETAILED MORTALITY
DATABASE

YLL

DISABILITY
WEIGHTS



VALIDATING AND
IMPROVING INJURY
BURDEN ESTIMATES
(INJURY-VIBES) STUDY

YLD

REMAINING YEARS OF
LIFE



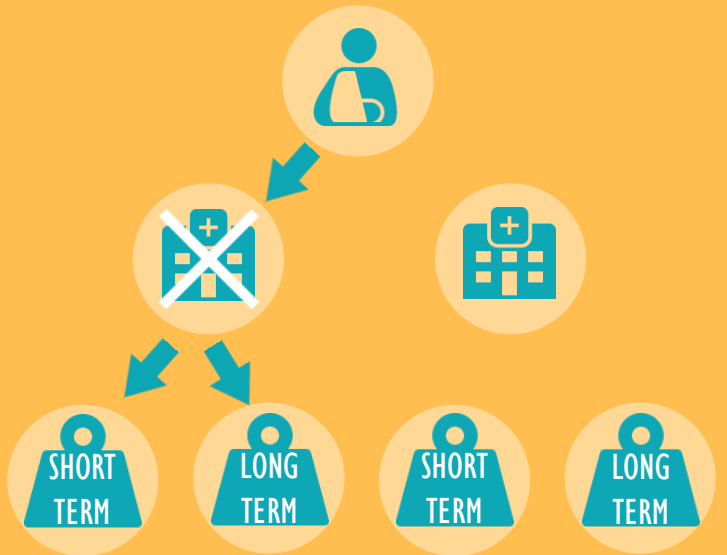
GLOBAL BURDEN OF
DISEASE BURDEN
CALCULATOR

YLD & YLL

METHODS

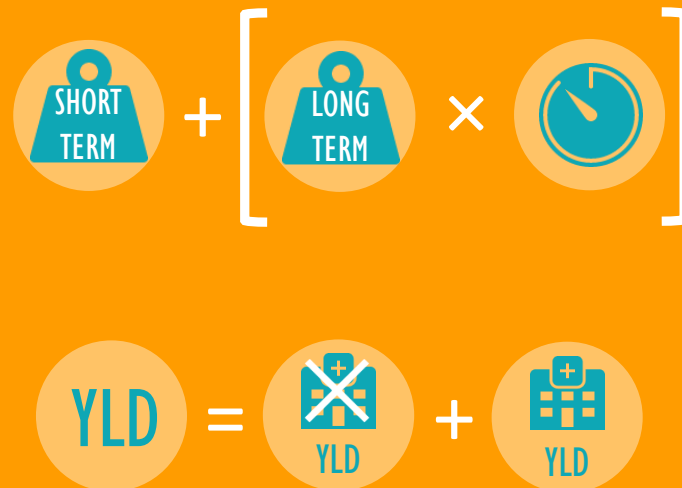
STEP 1 — MAP WEIGHTS

MAP NON-HOSPITALISED/HOSPITALISED SHORT AND LONG TERM DISABILITY WEIGHTS TO INJURY CASES IN IDB-MDS



STEP 2 - YLD

MULTIPLY LONG TERM WEIGHTS BY REMAINING YEARS OF LIFE. SUM WITH SHORT TERM WEIGHTS TO PRODUCE HOSPITALISED/NON-HOSPITALISED YLD



STEP 3 - YLL

ASSIGN REMAINING YEARS OF LIFE LOST TO EACH FATAL CASE



EUROPEAN ED ESTIMATED INJURY INCIDENCE RATE BY AGE/GENDER

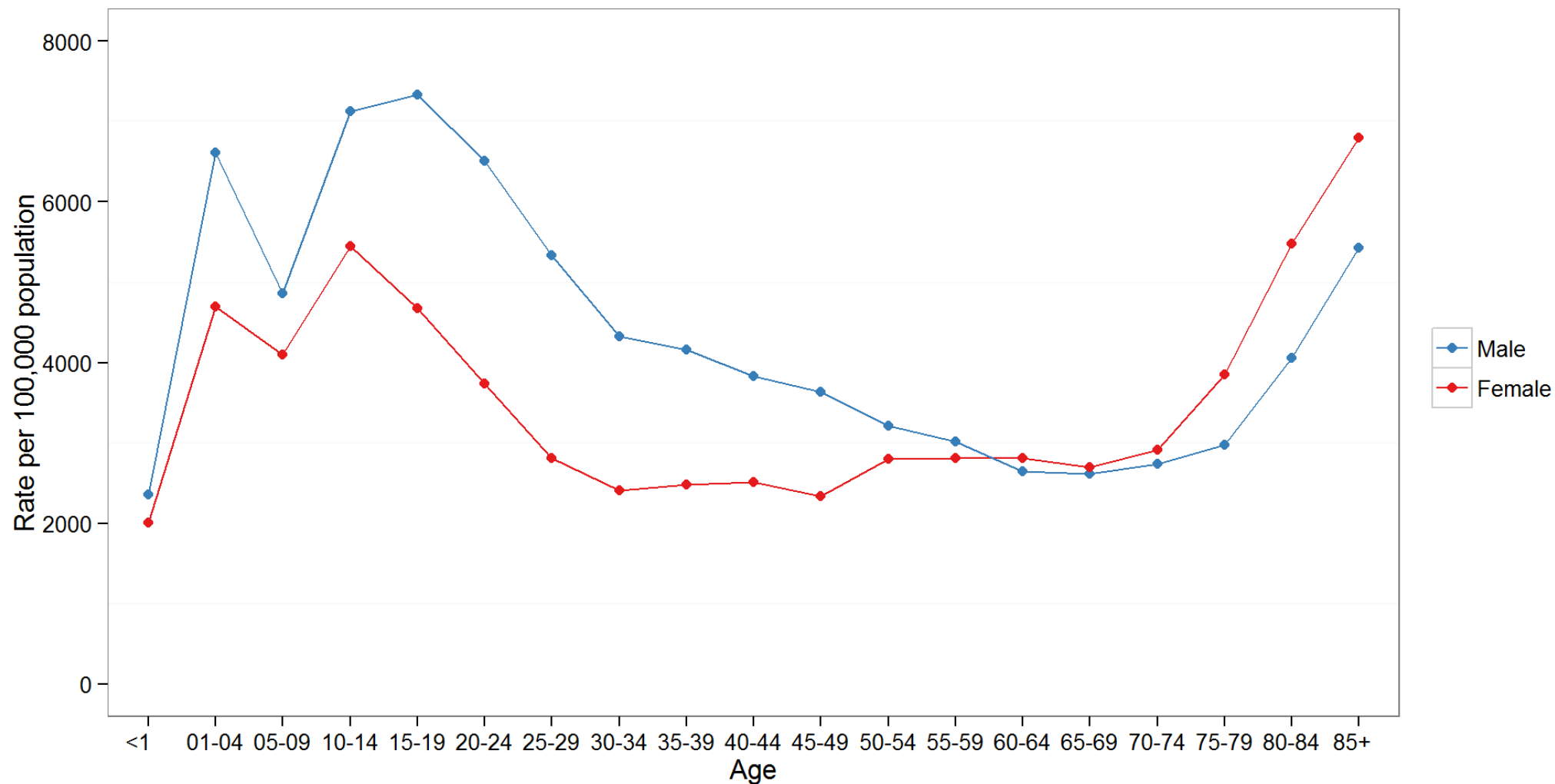


FIGURE 1. IDB BASED ALL CAUSE INJURY ANNUAL AVERAGE RATES PER 100,000 POPULATION BY AGE AND GENDER

ESTIMATED DALY RATE (EU28) BY AGE-GROUP

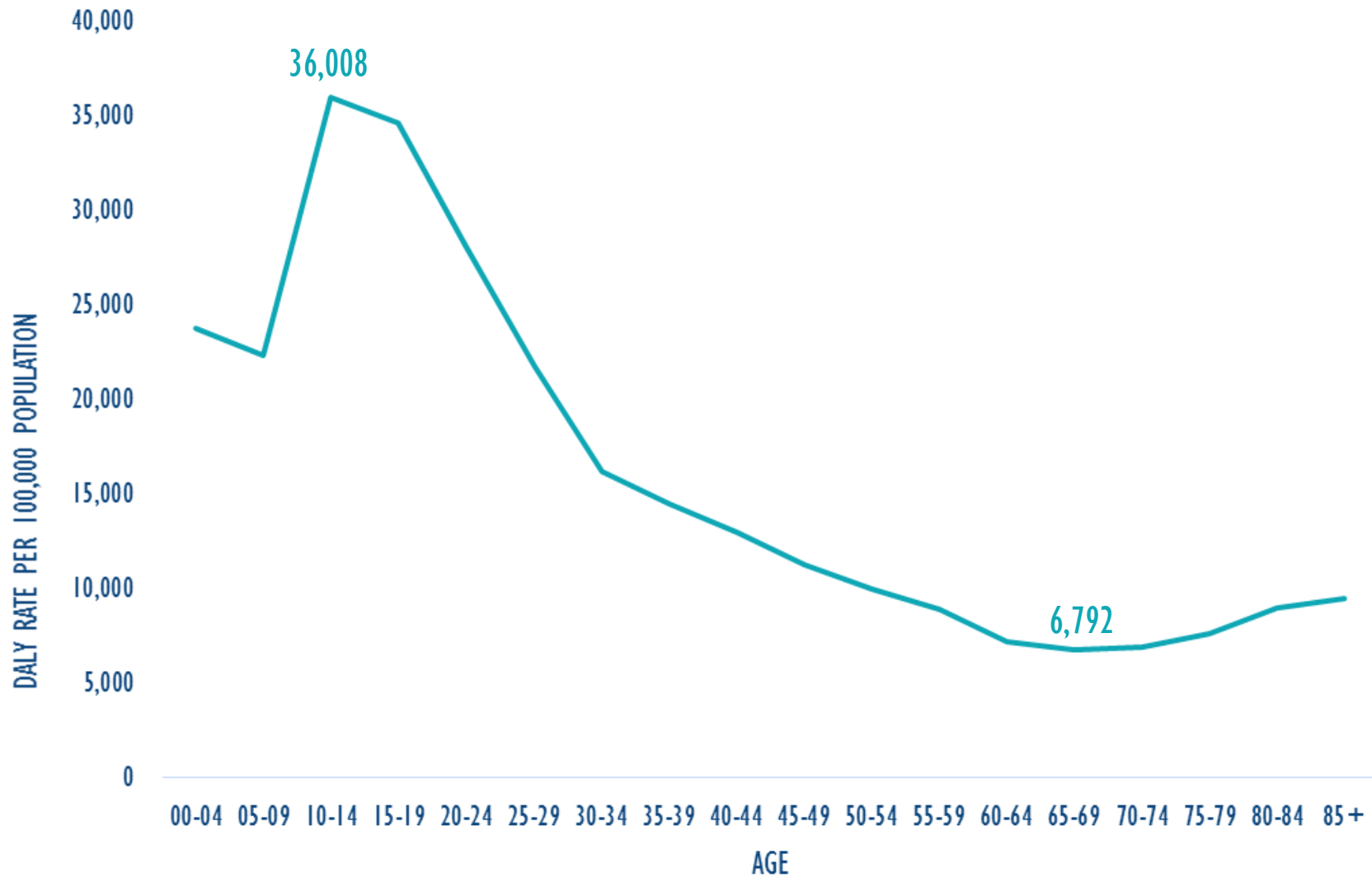


FIGURE 3. AVERAGE EU28 DALY RATE PER 100,000 POPULATION FOR ALL CAUSE INJURIES BY AGE GROUP.

ESTIMATED INJURY DALY RATE BY COUNTRY

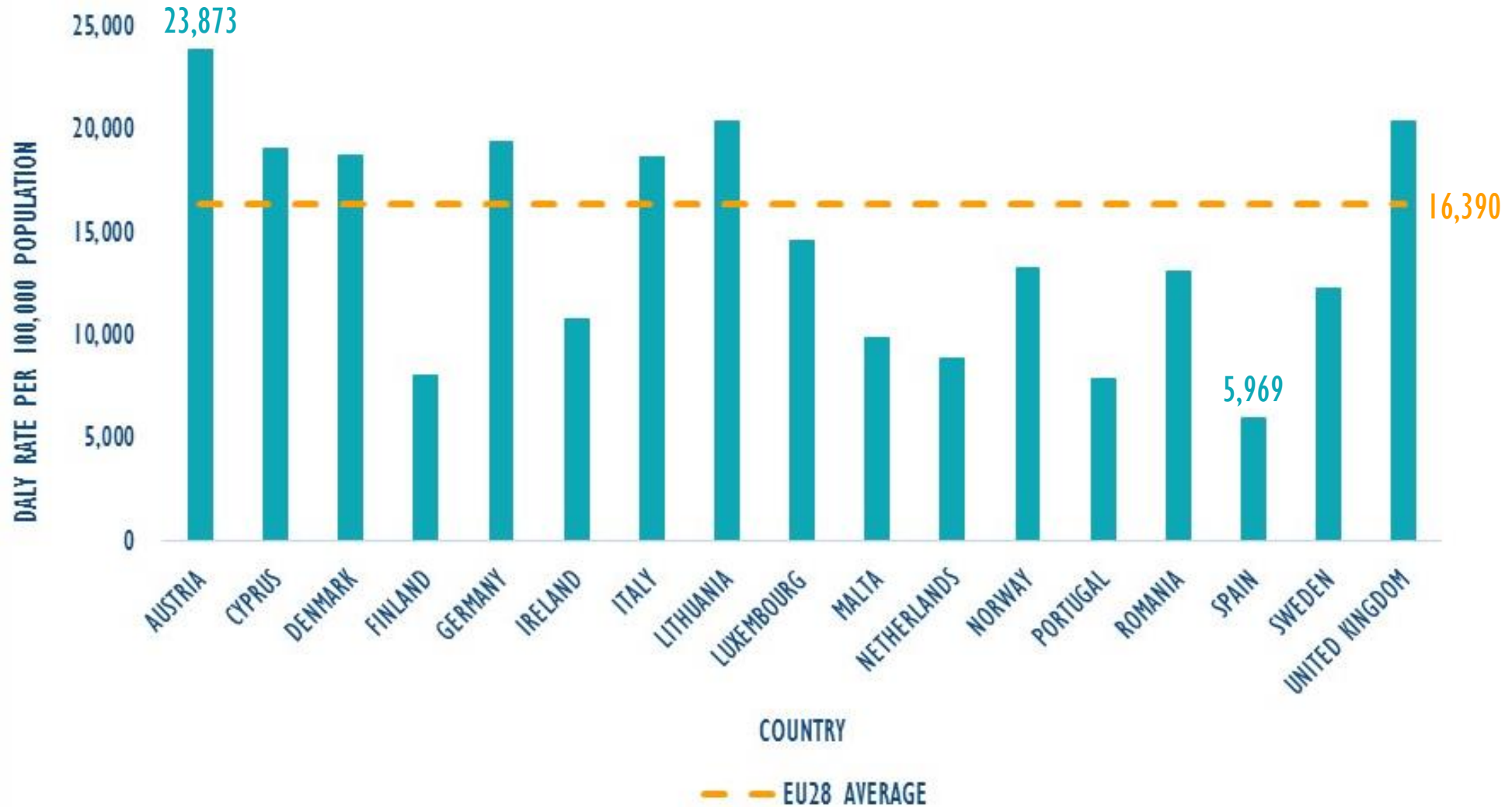


FIGURE 1. DALY RATE PER 100,000 POPULATION FOR ALL CAUSE INJURIES BY COUNTRY. THE ORANGE DASHED LINE REPRESENTS THE EU28 AVERAGE.

EUROPEAN ED ESTIMATED SELF-HARM INJURY RATE BY AGE/GENDER

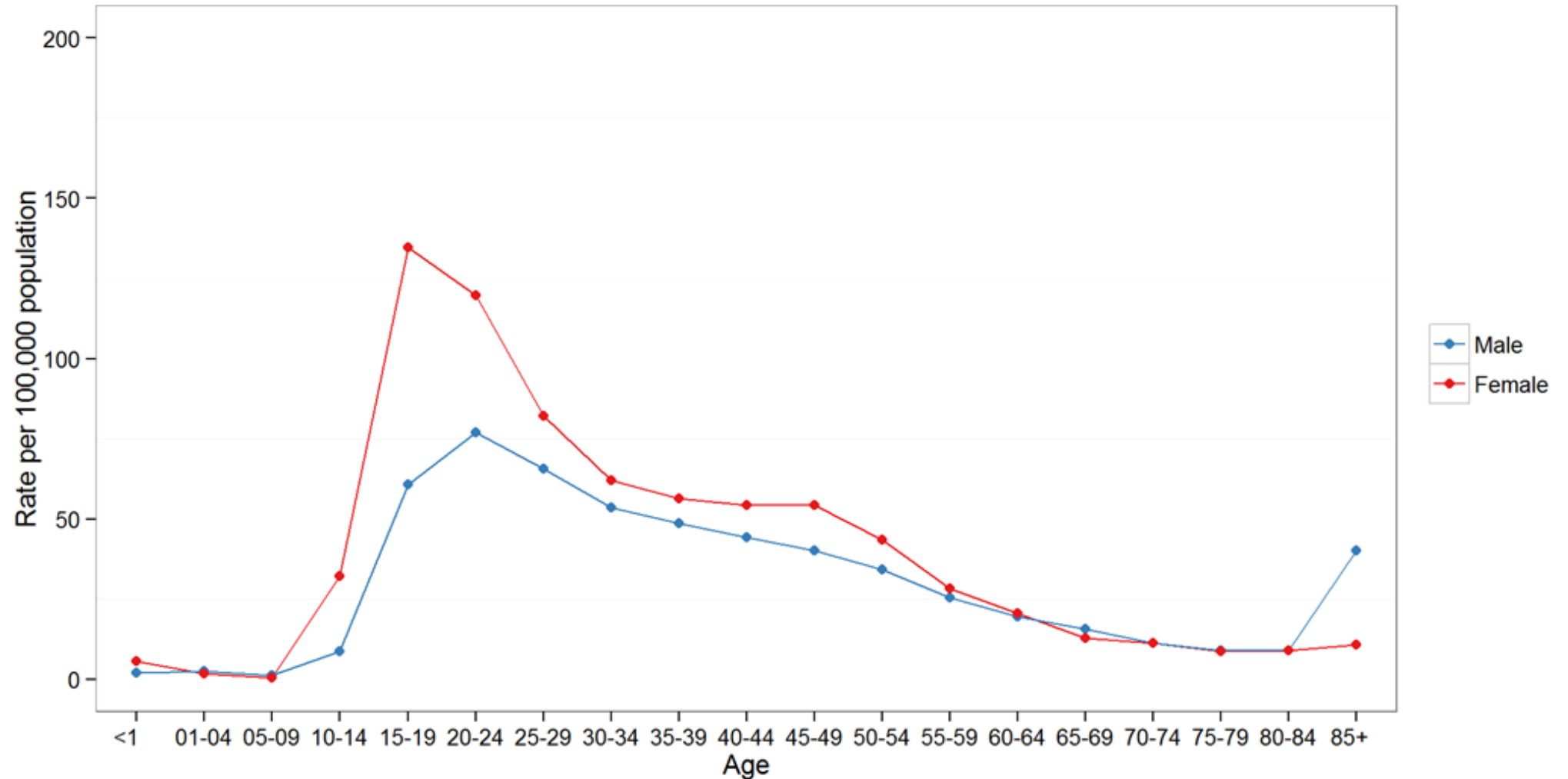


FIGURE 3. IDB BASED SELF-HARM ANNUAL AVERAGE RATES PER 100,000 POPULATION BY AGE AND GENDER

EUROPEAN ESTIMATED SELF-HARM DALY RATE BY AGE-GROUP

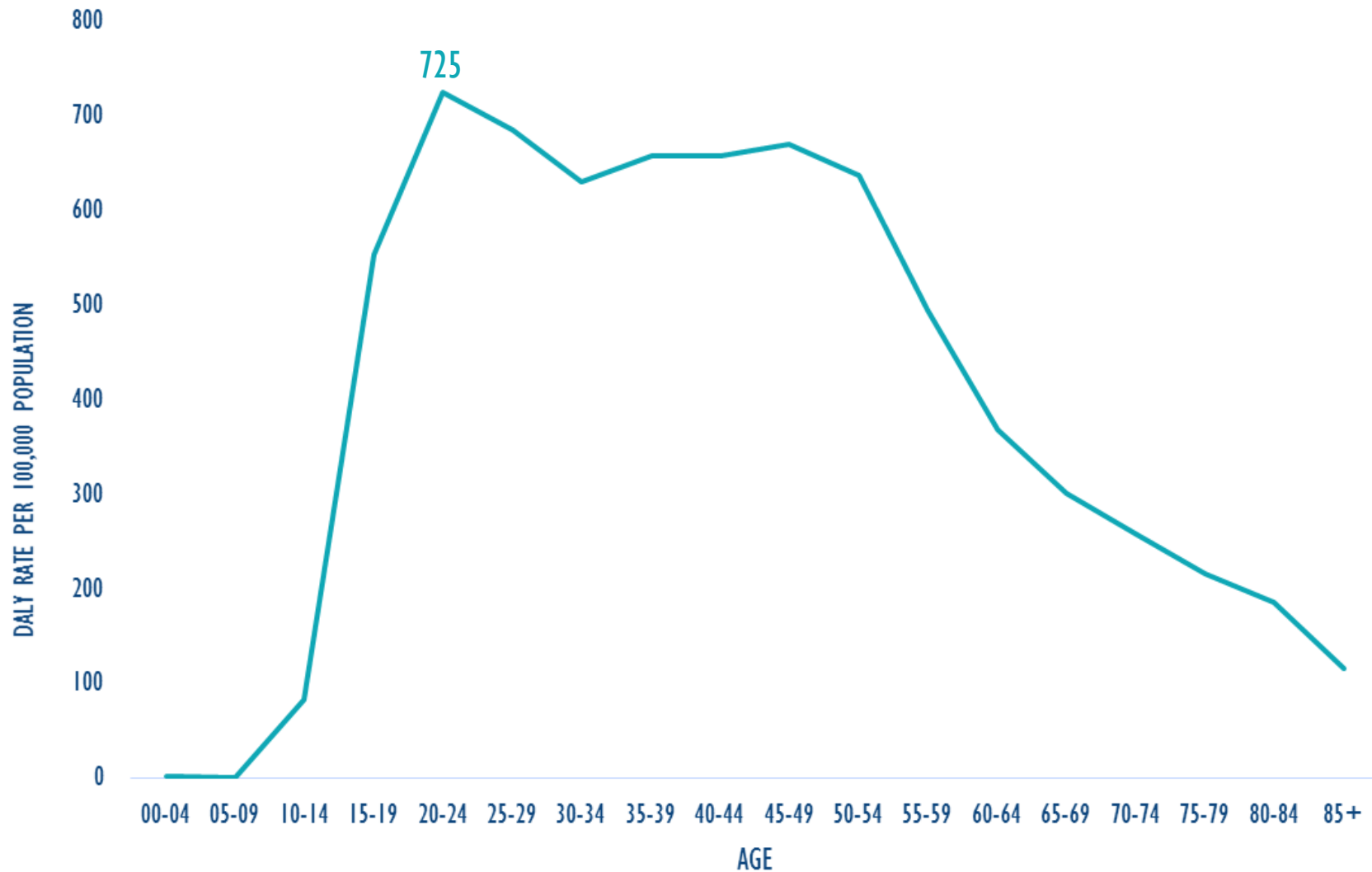


FIGURE 5. AVERAGE EU28 DALY RATE PER 100,000 POPULATION FOR SELF-HARM INJURIES BY AGE GROUP.

EUROPEAN ESTIMATED DALY RATE BY INTENT/CATEGORY

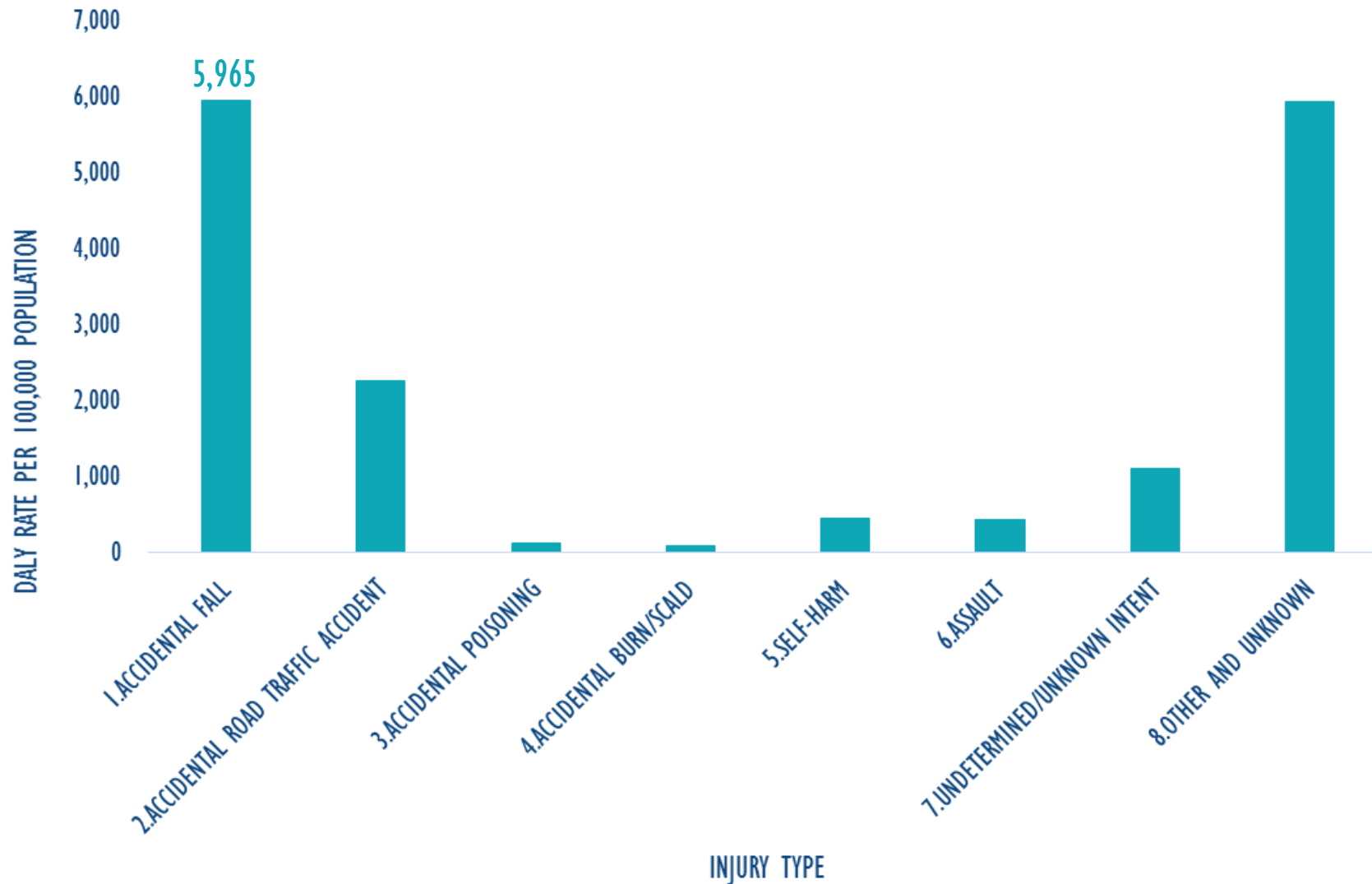
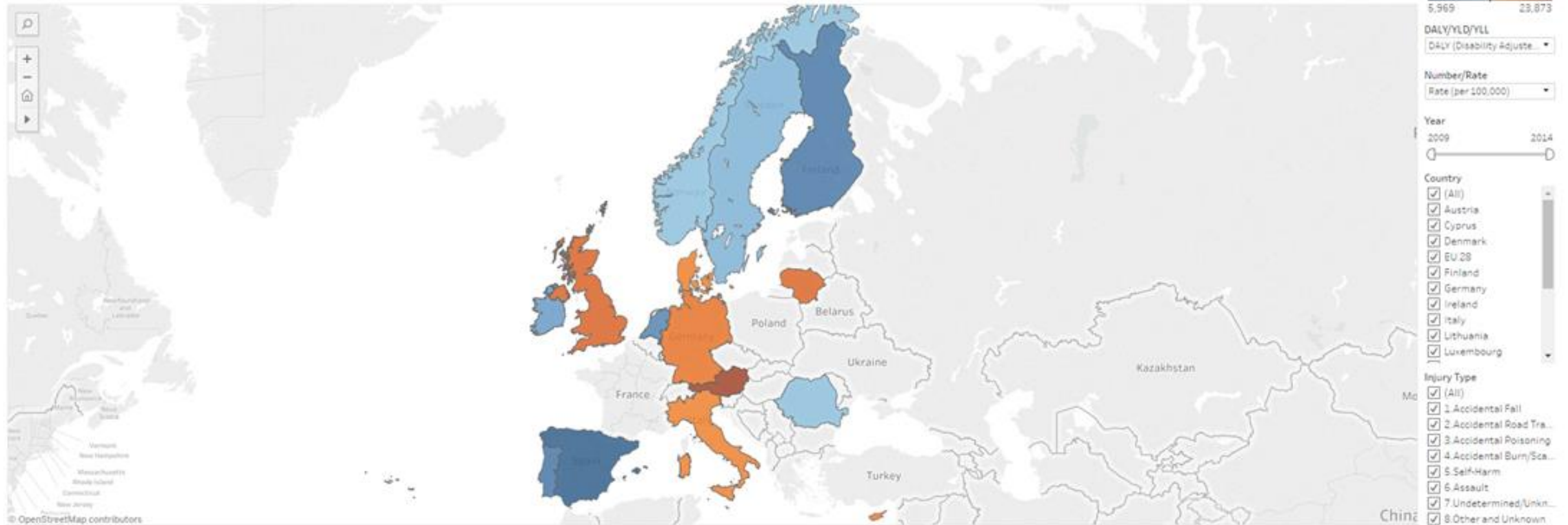


FIGURE 6. AVERAGE EU28 DALY RATE PER 100,000 POPULATION BY TYPE OF INJURY.

IDB-BOI INTERACTIVE TOOL (IDB-BOI.EU)

National Estimates of the Burden of Injury by Country (Average per Year)



National Estimates of the Burden of Injury by Country and Year

Year	Country	Warning Flag	YLL (Years of Life Lost)	YLD (Years Lived with Disability)	DALY (Disability Adjusted Life Years)	YLL Rate per 100,000	YLD Rate per 100,000	DALY Rate per 100,000
2009	Austria	Null	106,529	2,108,900	2,215,422	1,278	25,302	26,580
	Cyprus	Null	10,251	141,547	151,803	1,286	17,762	19,048
	Denmark	Null	57,881	953,937	1,011,821	1,050	17,308	18,359
	EU 28	Null	5,143,168	74,099,311	79,242,479	1,034	14,755	15,780
	Malta	Null	4,405	46,190	50,590	1,072	11,240	12,311
	Netherlands	Null	129,133	1,468,443	1,607,569	844	8,907	9,751
	2010	Austria	Null	100,564	1,994,530	2,095,091	1,204	23,882

Value
5,969 23,873

DALY/YLD/YLL
DALY (Disability Adjuste...
Number/Rate
Rate (per 100,000)

Year
2009 2014

Country
 (All)
 Austria
 Cyprus
 Denmark
 EU 28
 Finland
 Germany
 Ireland
 Italy
 Lithuania
 Luxembourg

Injury Type
 (All)
 1. Accidental Fall
 2. Accidental Road Tra...
 3. Accidental Poisoning
 4. Accidental Burn/Scal...
 5. Self-Harm
 6. Assault
 7. Undetermined/Unkn...
 8. Other and Unknown

Age
 (All)
 00-04
 05-09
 10-14
 15-19
 20-24
 25-29
 30-34
 35-39
 40-44

DISCUSSION & CONCLUSION

