



## **WFTDA 2019 Participant Safety Survey**

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*First Quarter 2020*

### ***Notes and Recommendations for the Survey Report***

This report is the property of the WFTDA. The report contains proprietary information of WFTDA and is solely for the use of WFTDA Volunteers and Staff. Individual responses are confidential. If there is any personally identifiable information anywhere in this report, especially in the open-ended comments, please be sure to maintain that confidentiality.

There are two sections in which data is summarized in this report; key findings and frequency tables.

The key findings section summarizes the data using narrative, tables, and graphs. Findings are ordered in a way that makes sense for the reader; therefore, questions do not necessarily follow the order in which they come in the frequency report or survey instrument.

The frequency tables section contains summary tables and graphs for each question (or variable) measured in the study. The order of the report is the order in which the questions were presented to the respondents. When making presentations, you may want to re-order these.

Scale questions typically have both a table with numbers and a graph. For presentations, you may want to delete the tables and present only the graphs. Data presented in tables also typically includes both the raw numbers and the percentages. For presentations, you may want to only present one of these, depending on your particular study.

Open-ended questions include all answers by all respondents, without editing or spell-checking. You may want to move these to the end, edit, or pull out example quotes for use in a presentation.

## ***Abstract***

The purpose of the WFTDA 2019 Participant survey was to assess:

- Probability of injury across participants in roller derby historically
- Use, awareness, and satisfaction with existing insurance products
- Demographics of research participants

## ***Methodology***

*Purpose:* To assess satisfaction with the event

*Data Collection Started:* 29 September 2019

*Data Collection Ended:* 24 November 2019

*Method:*

1) Direct email contact to those registered through the WFTDA CMS system

2) Social media marketing

*Sample:* direct email contacts

*Response:* 5,535 total responses

- 5,292 email respondents
- 243 social media respondents

## ***Top-Level Findings:***

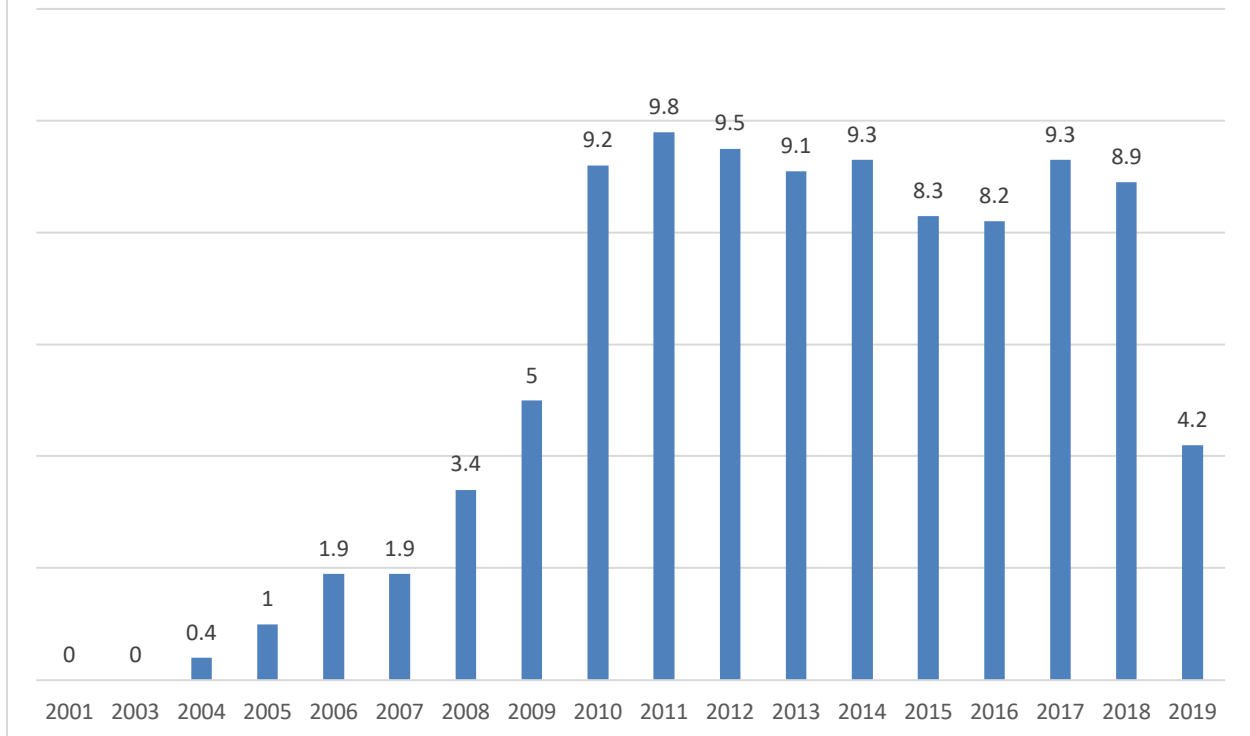
- About one in five skaters has ever played at WFTDA Playoffs or Championships
- Nearly nine in ten skaters are active outside of derby one day per week or more
- More than eight in ten skaters have ever experienced an injury as a result of their involvement in roller derby
- The most commonly reported injuries include hematomas, muscle strain/muscle pulls, joint injuries, ankle sprains, and concussions
  - o Most injuries occur during games or at practice; few happen on-skates outside of those environments
- The median number of injuries a skater experiences in their career is 4
- Nearly all skaters indicated they were wearing all required equipment at the time of their injury
  - o One in ten submitted an insurance claim with their roller derby insurance provider
  - o Just over half have had their insurance claim approved
- More than eight in ten skaters were able to continue participating in roller derby following their injury (and recovery).

## ***Identifying Skaters:***

Of the 5,535 respondents, 4,051 identified their primary role in roller derby (past or present) as “Player.” The bulk of the report will focus on the experiences of those who identify as such. For simplicity’s sake, we’ll refer to this population as “skaters.”

Skaters are evenly split on when they started their involvement in roller derby. Between 8.2% and 9.8% of respondents started in each year between 2010 and 2018. About 9% of respondents started in 2008 or earlier, and 4.2% started this year (in 2019). *For more information, please see Figure 1 below:*

Figure 1: Respondent Starts in Roller Derby (Skaters by Year)



### ***Activity in Roller Derby:***

#### *non-WFTDA:*

Of the pool of skater respondents:

- Six in ten (61.4%) have not played in any roller derby rulesets except for WFTDA roller derby.
  - 9.9% have ever participated in USARS games
  - 4.8% have ever participated in MADE derby
  - 3.5% have ever participated in RDCL (banked) derby
  - 1.4% have ever participated in OSDA games
  - 4.5% have ever participated in other flat-track rulesets
  - 1.9% have ever participated in other banked-track rulesets

#### *Within WFTDA:*

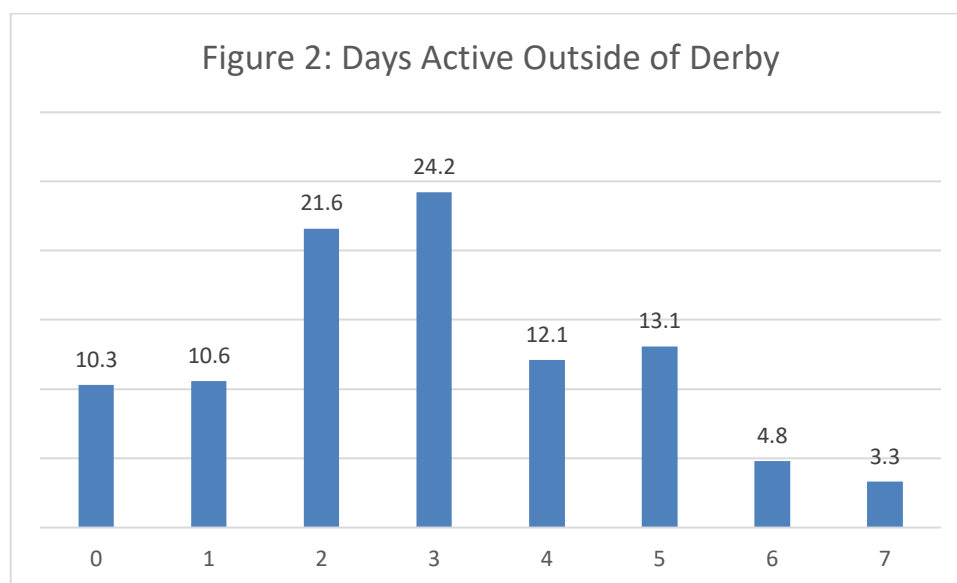
Of the pool of skater respondents: 22.8% of respondents have participated in some formal WFTDA postseason play. 77.2% indicated they did not. Those who have break down as follows. (*note: because*

participants played in multiple events within the same year or across years, the numbers below add up to over 22.8%.)

- 2006-2008:
  - 1.8% participated in Regional Playoffs
  - 0.7% participated in Championships
- 2009-2012:
  - 3.8% participated in Regional Playoffs
  - 1.4% participated in Championships
- 
- 2013-2016:
  - 2.8% participated in D2 Playoffs
  - 4.3% participated in D1 Playoffs
  - 2.0% participated in Championships
- 2017:
  - 1.2% participated in D2 Playoffs and Championships
  - 2.5% participated in D1 Playoffs
  - 1.2% participated in Championships
- 2018:
  - 2.2% participated in Continental Cups
  - 2.1% participated in International Playoffs
  - 1.0% participated in Championships

### **Non-Derby Activity:**

Nearly nine in ten (89.7%) skaters are active outside of derby<sup>1</sup> one day per week or more. Nearly half (45.8%) are active two or three days per week other than derby. 8.1% are active six or seven days. *For more information, please see figure 2 below:*



<sup>1</sup> This question was asked to identify activity outside of derby; independent of knowing the figures for how often participants are active within derby per week, however, means we have a somewhat incomplete picture of overall mean skater weekly physical activity.

Of those who are active:

- Seven in ten (69.6%) perform cardiovascular activity (e.g., cycling, running, hiking, and so on)
- 42.9% do non-Crossfit weightlifting
- 10.0% do Crossfit
- 7.9 do vert skating or bowl skating

### ***Skater Experience with Injuries:***

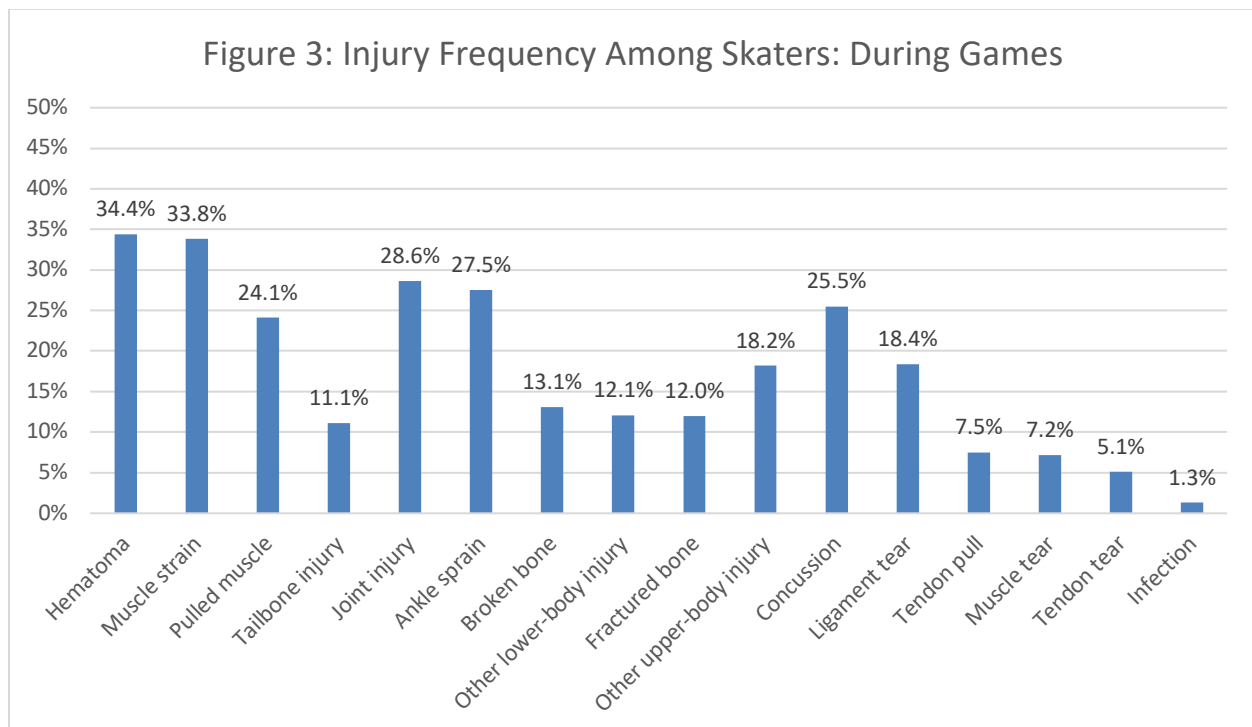
More than eight in ten (85.3%) of skaters have ever experienced something they would describe as an injury from the time they started being involved in derby until now. Nearly just as many, 85.2%, experienced injuries as a result of their involvement in roller derby.

### **In-Game Injuries:**

A quarter or more skaters have ever experienced the following injuries during a game:

- Concussion (25.5%)
- Ankle sprain (27.5%)
- Joint injury (28.6%)
- Muscle strain (33.8%)
- Hematoma (34.4%)

*For more information, please see Figure 3 below:*

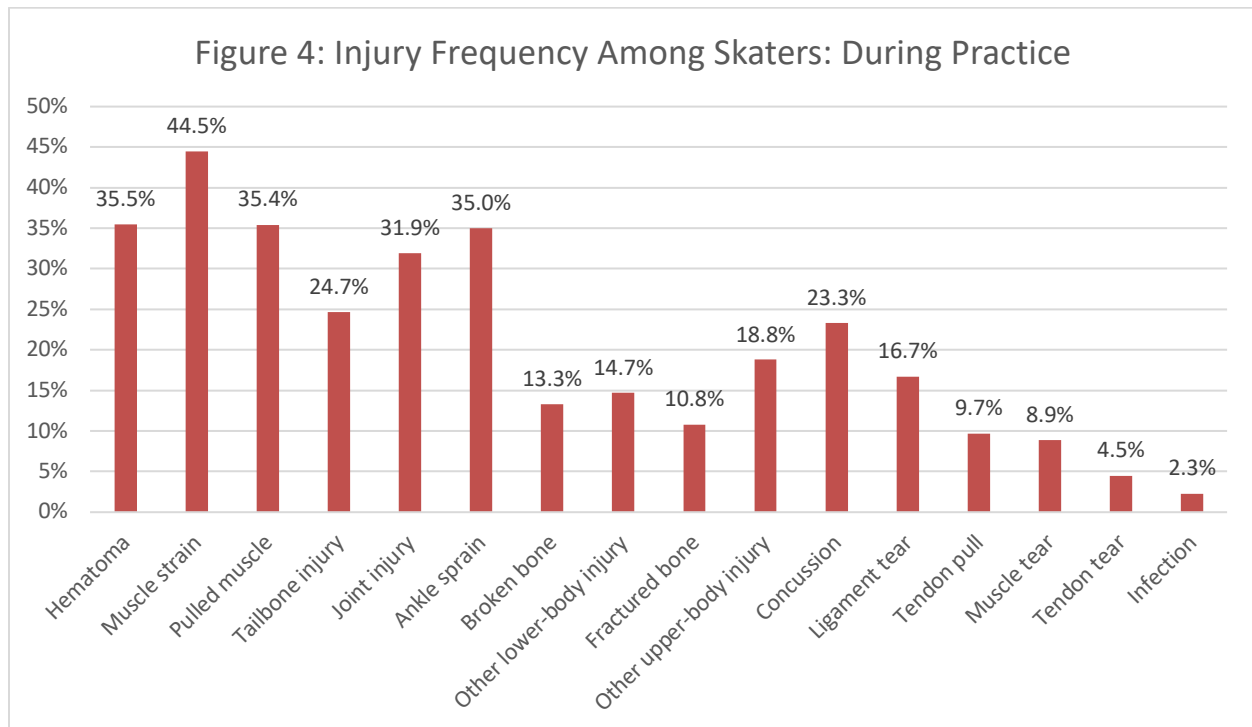


### Injuries During Practice:

Three in ten or more skaters have ever experienced the following injuries during practice:

- Joint injury (31.9%)
- Ankle sprain (35.0%)
- Pulled Muscle (35.4%)
- Hematoma (35.5%)
- Muscle strain (44.5%)

*For more information, please see Figure 4 below:*



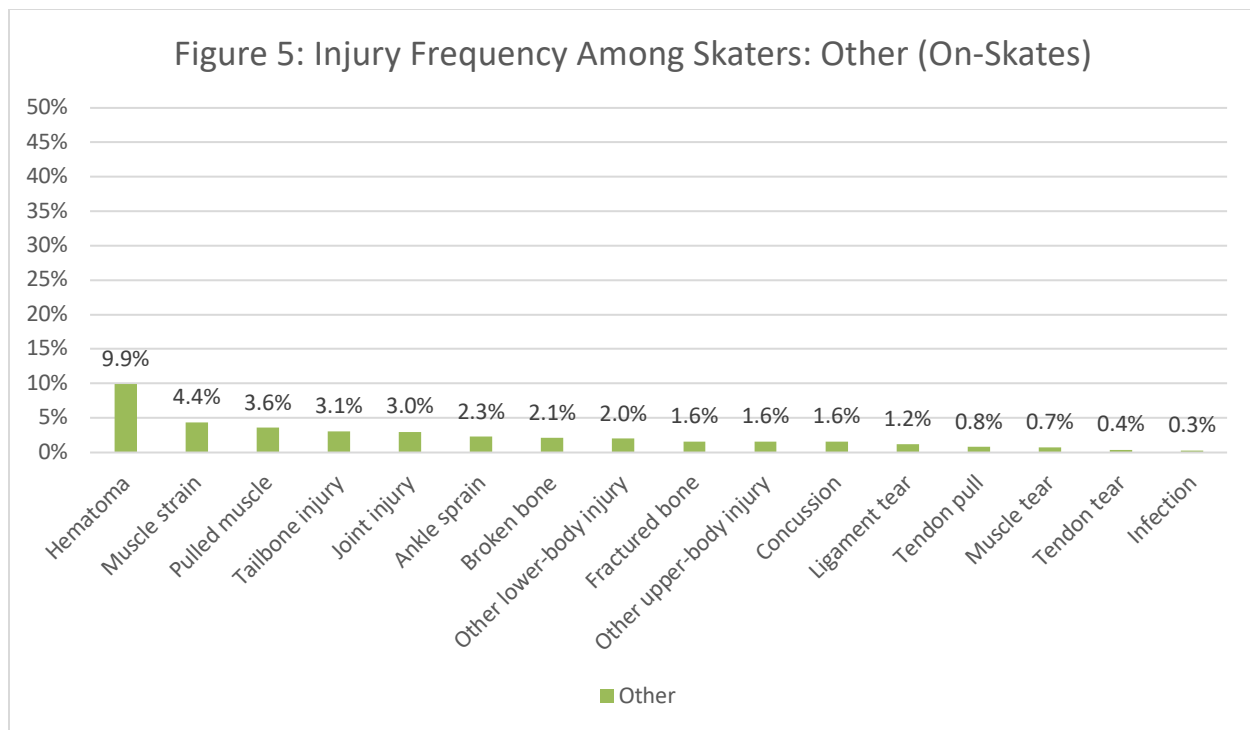
### Other On-Skates Injuries:

Injuries on skates, but not during a game or practice, were much less prevalent.

Skaters were most likely to experience a:

- Hematoma (9.9%)
- Muscle strain (4.4%)
- Pulled muscle (3.6%)
- Tailbone injury (3.1%)

*For more information, please see Figure 5 below:*



#### Observations:

At a glance, muscle pulls (+10.3%), muscle strains (+9.7%), and ankle sprains (+7.5%) are among the more frequent during practice than games. While some injuries were more likely to occur during games, none approached statistical significance. For now, there is not enough evidence to suggest that games are greater or lesser risks for participants compared to practice.

We can say with confidence that skaters spend more time, on average, skating in practice than they do playing games, so any difference in rate of injury between games and practice is likely due to that increased exposure.

Put simply, other things being equal, they are more likely to be injured where they spend more time. As skaters spend more time at practice than they do in games, their overall probability of injury is greater there.

Of the categories where we see differences (muscle pulls, muscle strains, ankle sprains), it is likely that their likelihood of does not change as a result of the impact of the activity. Higher intensity derby activity (such as playing in a game) is not likely to make a given skater more likely to experience a muscle pull or strain.

Additional research can help parse out any difference in risk between practice and games, as well as within practice. For now, it is uncertain if specific drills or activities during practice create a higher risk than others.



### Additional Statistics:

Skaters' self-reported number of injuries ranged from 0 (0.4% of the total) to 100 (0.1% of the total). The mean number of injuries in a derby career is 5.4. Since that figure may skew higher due to outliers, the median may be a more accurate representation of the number of injuries.

The median number of injuries a skater experiences in their career is 4.

### Medical Treatment:

Of those who have ever been injured, 84.6% of those who had ever been injured (62.5% of the entire skater pool) required some kind of medical treatment for their derby-related injuries. The following figures represent the proportion of those who had been injured in derby and their medical experiences.

- 21.5% were seen by an EMT
- 68.1% visited a medical facility (such as a hospital, urgent care, and so on)
- 22.0% have had a surgical procedure
- 59.7% have had some form of rehabilitation or therapy

### Roller Derby Insurance Compliance

Of those who were injured, nearly all respondents (98.4%) indicated they were wearing all required equipment at the time they were injured. 0.9% indicated they were wearing some required equipment, and 0.6% indicated they were not wearing any required equipment.

More than eight in ten (82.5%) had an active roller derby insurance policy at the time of their injury. 12.8% did not have an active roller derby insurance policy, and 4.7% do not recall.

Of those injured and with an active roller derby insurance policy at the time of their injury, just over one in ten (11.9%) submitted a claim with their roller derby insurance provider. 82.2% did not, and 3.5% did not recall. For 2.2% of respondents, roller derby insurance did not apply (despite them holding it).

More than half of those claims (51.6%) were approved. 16.0% were not approved, 6.0% are still pending, and 13.3% of respondents do not recall if it was approved.

Satisfaction was mixed: 39.1% were satisfied or very satisfied, a quarter (25.2%) were neutral, and a third (35.6%) were dissatisfied or very dissatisfied. The extremes on the scale, very satisfied and very dissatisfied, were similar (19.0% and 20.6%, respectively).

Eight in ten skaters (83.3%) were able to continue participating in roller derby following their injury (and recovery). More than one in ten (12.2%) indicated their injury did cause them to stop participating in roller derby, but they are able to continue to skate in a non-contact setting. Slightly under one in twenty (3.2%) stopped participating in roller derby, and indicated they can no longer skate at all. In sum, 15.3% of skater respondents indicated they experienced injuries that caused them to stop playing roller derby.

## Demographics

71.7% of skaters are employed full-time. 8.1% are employed part-time, and 8.2% self-employed. 5.1% indicated they are students, and 0.6% are retired.

Of those who are employed, nearly four in ten (37.7%) indicated their jobs are somewhat or very active. About half (49.5%) indicated they were relatively inactive. 9.4% were neutral.

The mean respondent age was 36.4; the median respondent age is 36.

More than seven in ten respondents (72.9%) reside in the United States. 7.1% reside in Canada, 5.2% in the United Kingdom, 3.9% in Australia, and less than two percent each in: Germany (1.5%), New Zealand (1.4%), Sweden (1.3%), and France (1.1%).

More than nine in ten skater respondents identify as Female (91.4%); 3.6% identify as male, 2.4% identify as non-binary/third gender, and 1.5% prefer to self-describe.

Four in ten (42.1%) have a Bachelor's degree as their highest level of education, while 22.9% have a Master's and 4.9% a Ph.D. 14.8% have some college but no degree, and 10.2% have a vocational/technical degree or certificate.

### ***Additional Analysis:***

A second round of analysis was performed to see if the probability of ever experiencing an injury tracked at all with several factors, including:

- Maximum Level of Play
- Age of respondent
- Year Started in Derby

Injuries in this section are coded as “ever” having happened. Of those who indicated they had ever experienced the injury, whether at practice, in game or elsewhere as a part of derby.

Correlation analyses were run to test if likelihood of injury was statistically significant. For each of the three categories, correlations were largely nonexistent, and otherwise weak. In simpler terms, the likelihood of injury is not strongly associated with level of play, age, or year started in derby in a way that suggests a need to target specific groups for reduced risk. There are some correlations that indicate higher level of play is associated with a higher probability of ever experiencing an injury, which will be discussed more below.

#### Maximum Level of Play (LOP)

Respondents were placed into four categories based on the highest level of play (LOP) they’ve ever participated in. Any respondent who ever played in WFTDA Playoffs was categorized as “Playoffs”; those who playing in Sanctioned games but never Playoffs as “Sanctioned”; those who played in Regulation games as “Regulation”; finally, those who only played in Juniors games as “Juniors.”

The number of respondents in each category is:

Juniors – 124 respondents (3.6%)

Regulation – 1,269 respondents (37.0%)

Sanctioned – 1,336 respondents (39.0%)

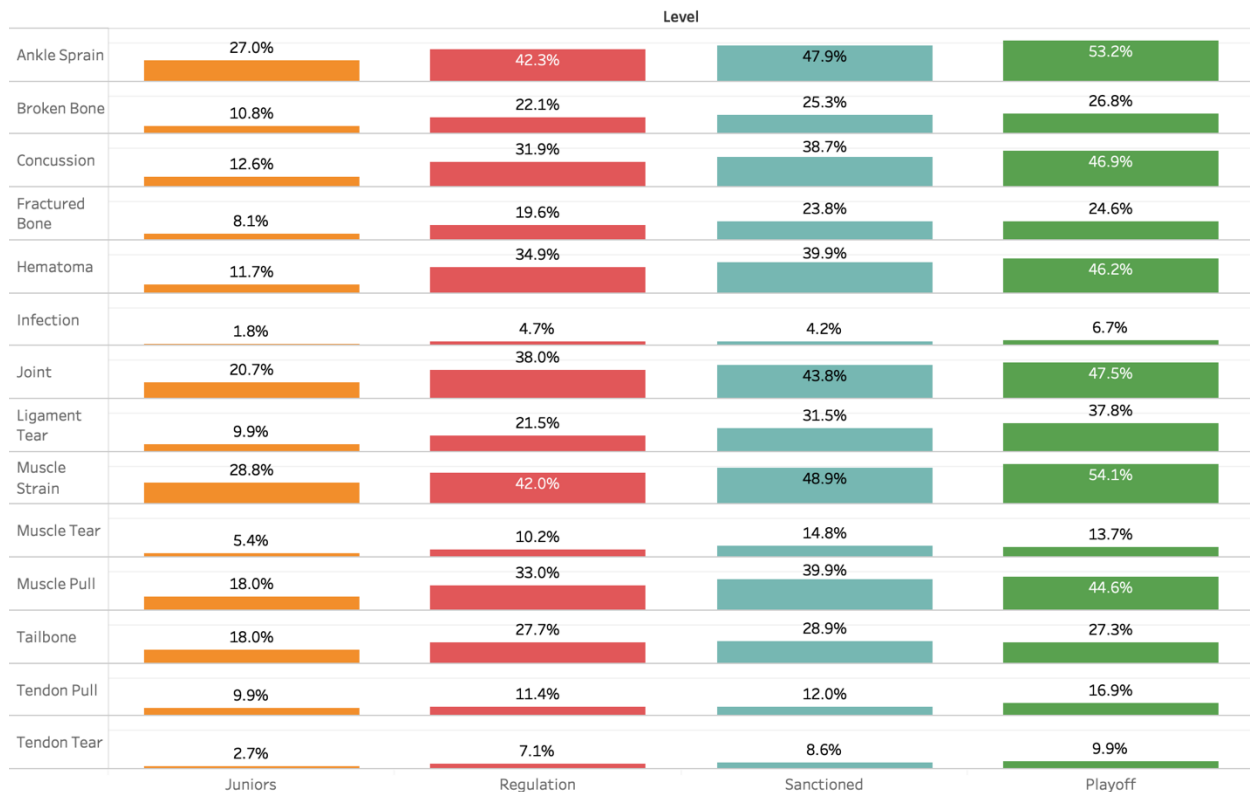
Playoffs – 699 respondents (20.4%)

Overall, the likelihood of ever experiencing an injury was lower across all categories for Juniors when compared to the other three groups. This may be attributable to two primary factors – lower respondent numbers, and less time spent in the sport.

46.9% - nearly half – of all Playoffs level players indicate they’ve ever experienced a concussion. This is 15.0% higher than the rate indicated by Regulation players (31.9%) and 8% higher than Sanctioned players (38.7%). It’s worth noting that this does not state the injuries happened **at** Playoffs, but that players who’ve made it to this level of the sport are at a higher risk of ever experiencing a concussion. Statistically speaking, there is a (weak) correlation across LOP for experiencing a concussion.

The figure below shows the percentage of respondents who’d indicated they’d ever experienced certain injuries by their highest LOP. Even where the data show higher percentages, statistically speaking the figures are either not significant across categories, or they are weak at best – in this case, concussions and ligament tears (and, to an even lesser extent, hematomas) are correlated with higher likelihood of injury. *For more information, please see Figure 6 on the next page.*

### Injury Experience by Highest Level of Play



### Age of Respondent

Correlation analysis were run for the age of the respondent. As skaters age, their risk of several injuries increases. The percentages below show the change in likelihood of experiencing an injury as compared to someone 10 years younger than them. For example, on average a skater who is 39 is 89% more likely to experience a broken bone than a skater who is 29%. In the respondent data, 15.7% of skaters in the 26 to 30 age range experienced a broken bone ever. An 89% increase in that risk would put a 39-year-old skater at a 29.7% risk of ever experiencing a broken bone. This figure is in line with the 28.0% reported by the 36 to 40 age bracket. For more 10-year incremental increases in risk, see below:

Broken bones: 89% increase  
 Fractures: 42% increase  
 Hematomas: 110% increase  
 Joint injuries: 43% increase  
 Ligament tears: 54% increase  
 Muscle tears: 56% increase  
 Tendon tears: 51% increase

Skater age is also correlated significantly with a lower likelihood of injuries in two cases. Below are the ten year rate in reduction for injuries. Despite the statistical significance, the data show, in both cases, the reduced likelihood of injury in both cases tracks to skaters over 40 (for concussions) and over 50 (for

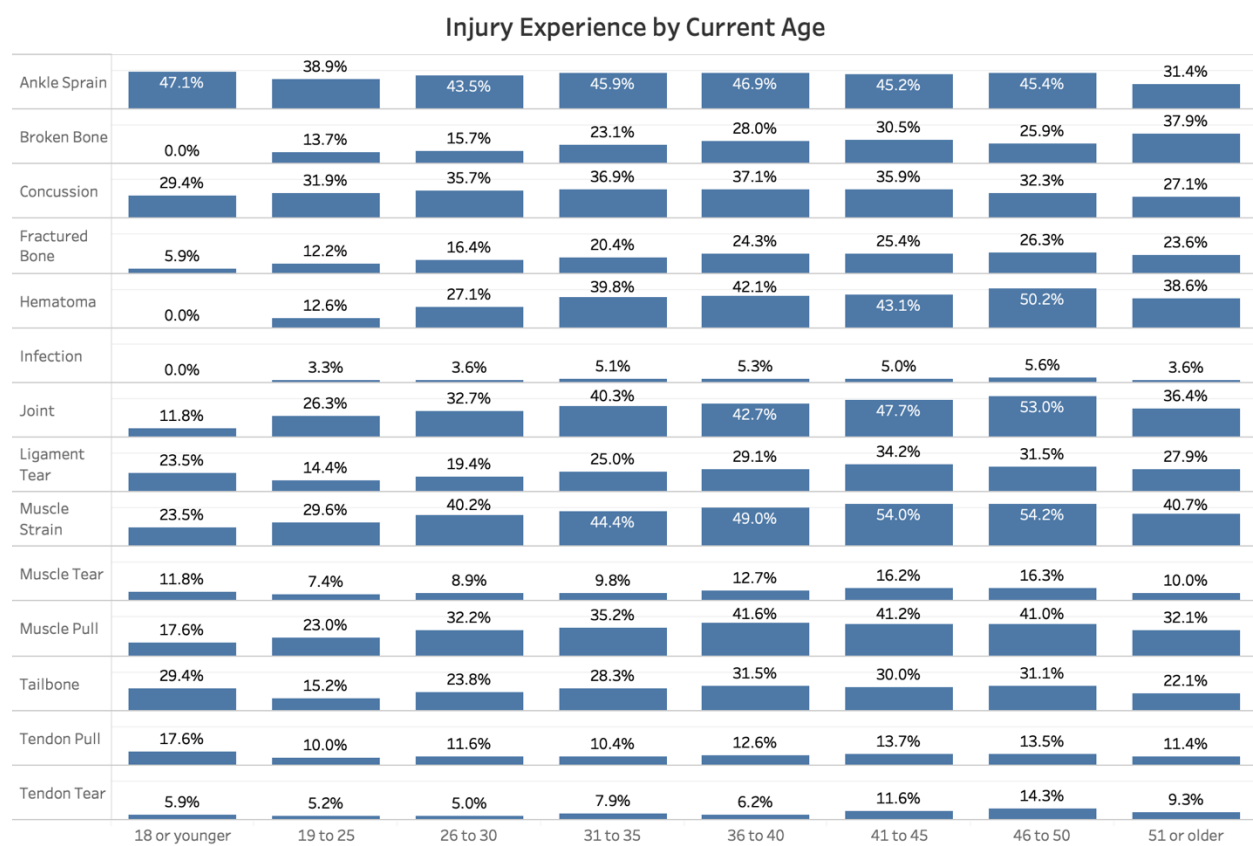
ankle injuries). Despite being statistically significant, this could be due to players adopting a more risk averse play style at a certain age, a low overall number of respondents in these categories, or something else. Some additional research is necessary to better understand how age reduces risk of injury in these select cases (or, if the effect is spurious).

Ankle injuries: 49%

Concussions: 59%

Among respondents who completed the survey, the median skater age is 33.5 years. Nearly four in ten (39.1%) respondents are between the ages of 31 and 40 – which are the ages at greatest risk for experiencing injuries. About one in twenty (4.9%) are in the low risk category over 50 years of age.

*For more information, please see Figure 7 below.*

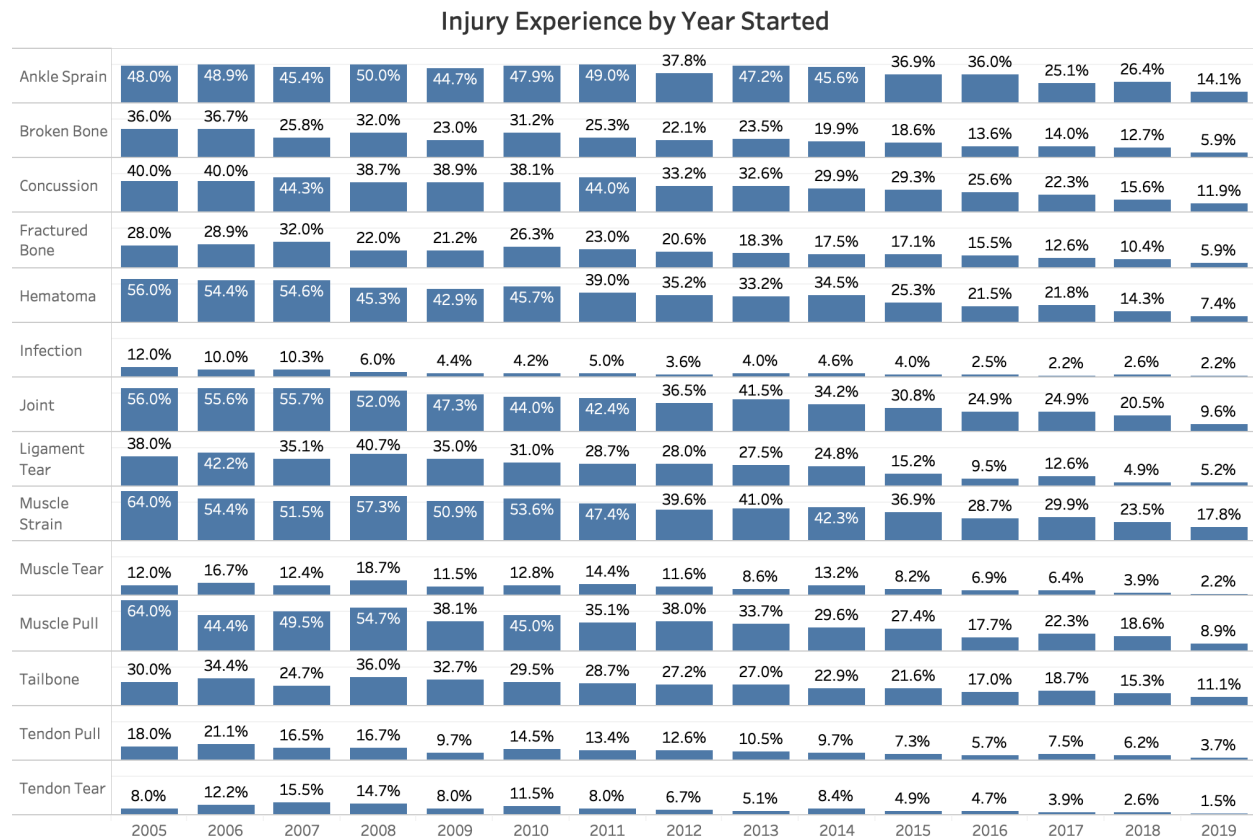


### Year Started in Derby

Correlations for all injury categories were negatively associated with the year respondents started in derby – that is, skaters who joined more recently were less likely to experience injuries. Rather than reporting a grouped change in risk of injury (similar to the explanation above for age of respondent), 2013-2015 seems to be the turning point for reduced risk of injury. The Rules of Flat-Track derby changed significantly in 2013 with the elimination of minor penalties, and further in 2015 with the introduction of a revised rule set and casebook. Even more simply, those who have started derby more recently (from 2015 on) are at less risk of injury than those who started before then as a result of time. It's worth revisiting these questions in a few years to identify (or eliminate) any time lag as a potential

explanation for risk of injury. If the 2015-2019 numbers start to look like the others, were this research reproduced in 2024, then a time lag would account for the reduced risk. If not, then it's a good indicator that the game's changes have aided in improving player safety within the last 5-7 years.

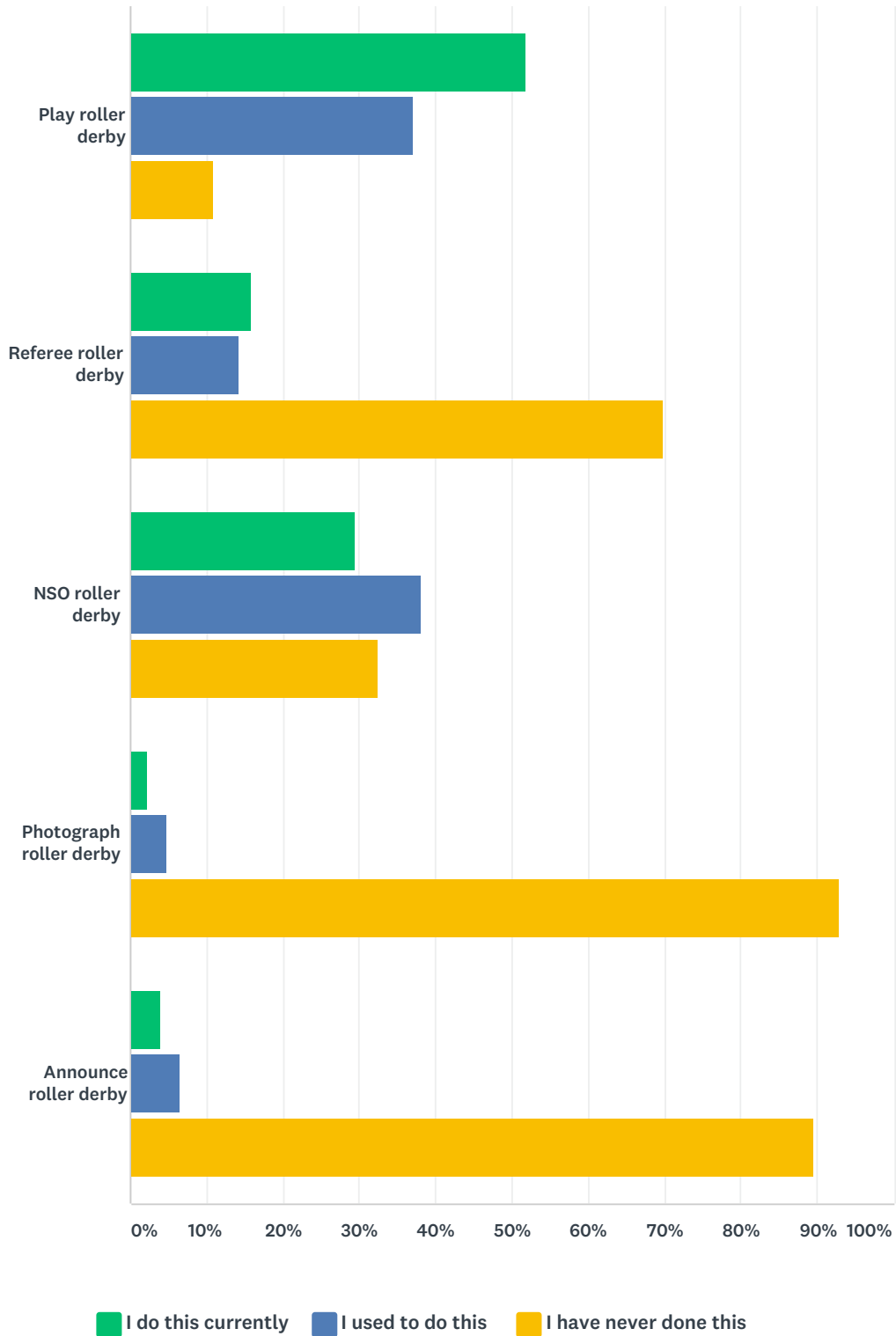
*For more information, please see Figure 8 below.*



## Appendix A

# Q1 Which of the following statuses, if any, apply to you? (Please select all that apply.)

Answered: 5,545 Skipped: 10



I DO THIS CURRENTLY

I USED TO DO THIS

I HAVE NEVER DONE THIS

TOTAL

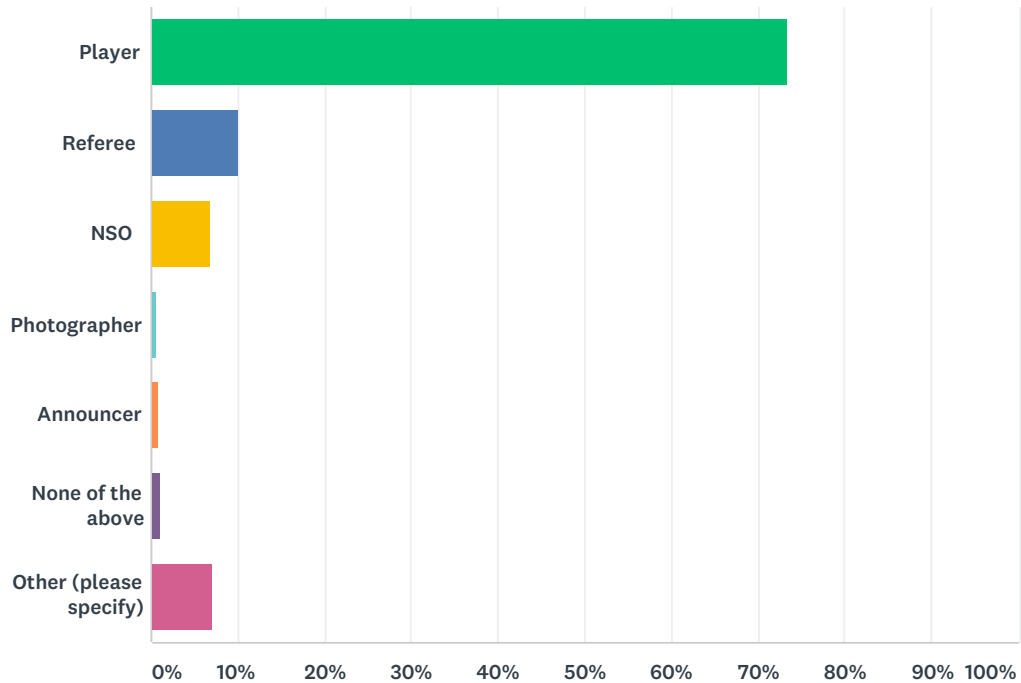


## WFTDA Safety Global Scan 2019

Play roller derby	51.98% 2,837	37.06% 2,023	10.96% 598	5,458
Referee roller derby	15.95% 835	14.25% 746	69.79% 3,653	5,234
NSO roller derby	29.49% 1,551	38.12% 2,005	32.40% 1,704	5,260
Photograph roller derby	2.26% 116	4.75% 244	92.99% 4,774	5,134
Announce roller derby	4.02% 207	6.39% 329	89.59% 4,612	5,148

## Q2 Which of the following would you consider your primary role in roller derby?

Answered: 5,555 Skipped: 0



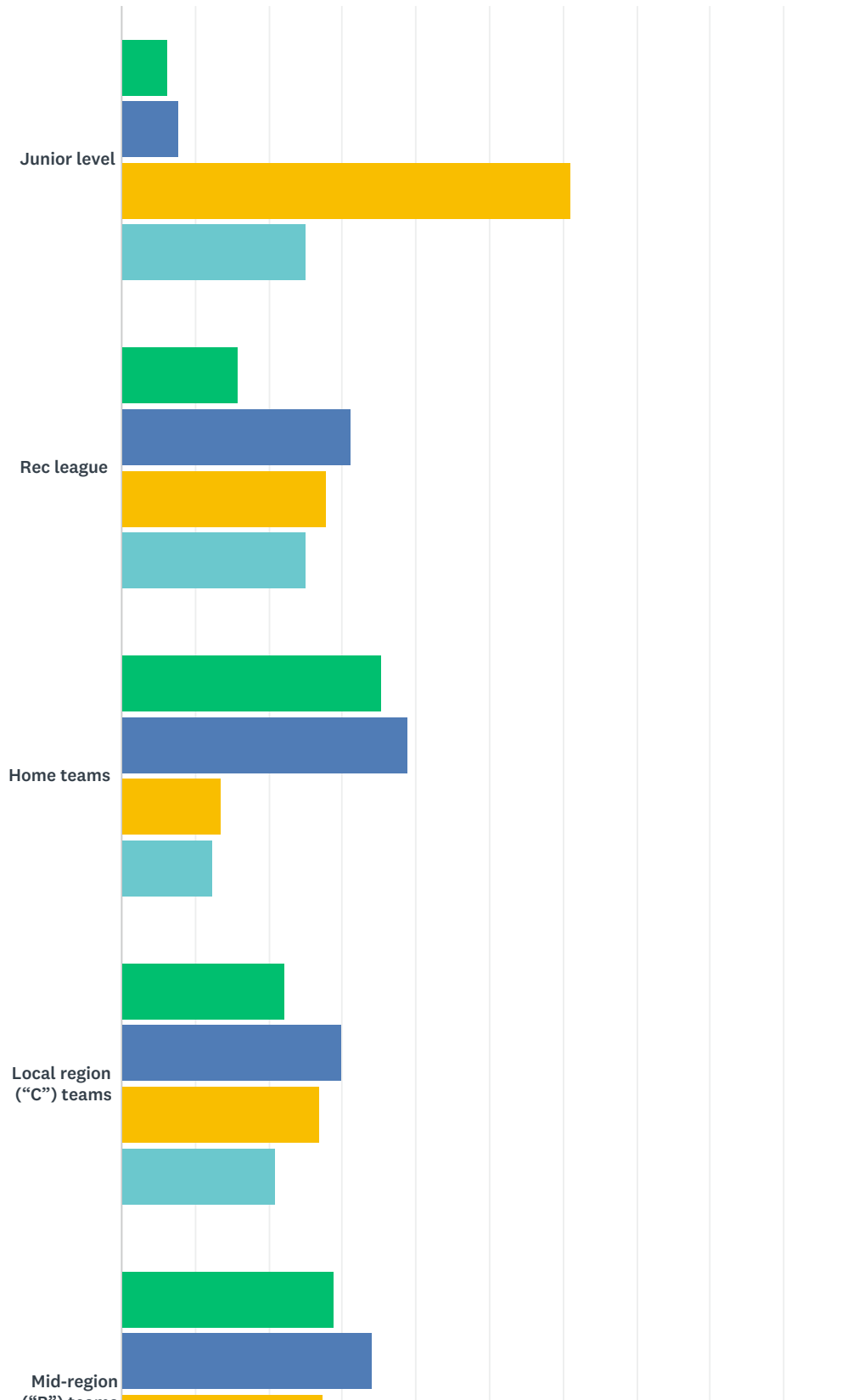
ANSWER CHOICES	RESPONSES	
Player	73.45%	4,080
Referee	10.01%	556
NSO	6.91%	384
Photographer	0.61%	34
Announcer	0.79%	44
None of the above	1.10%	61
Other (please specify)	7.13%	396
TOTAL		5,555

### Q3 In what year did you start being involved in roller derby?

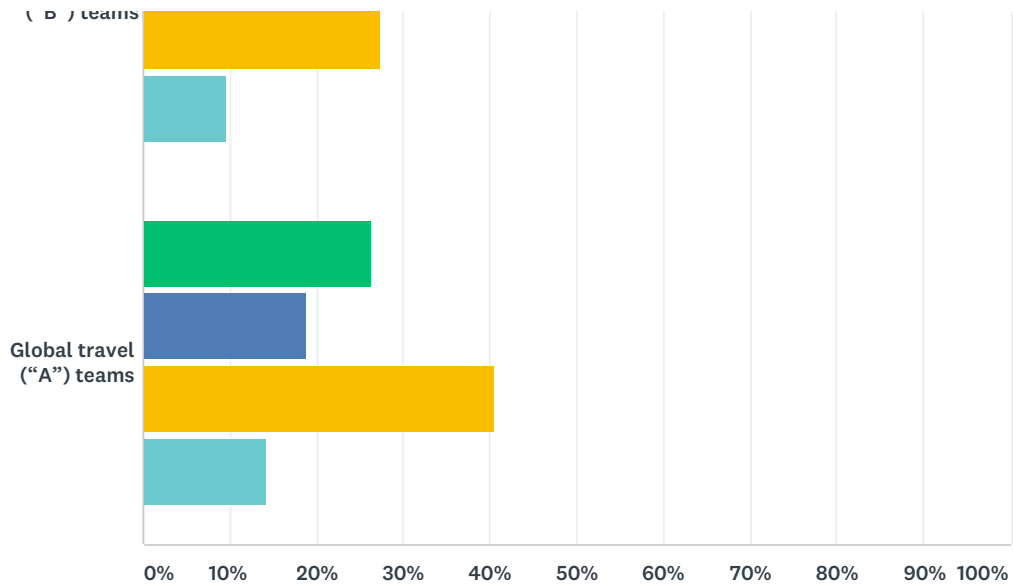
Answered: 5,520   Skipped: 35

## Q4 Which of the following levels of play have you participated in? (Please select all that apply.)

Answered: 4,937 Skipped: 618



## WFTDA Safety Global Scan 2019



■ I currently participate at this level   
 ■ I used to participate at this level  
■ I have never participated at this level   
 ■ My league does not offer this level

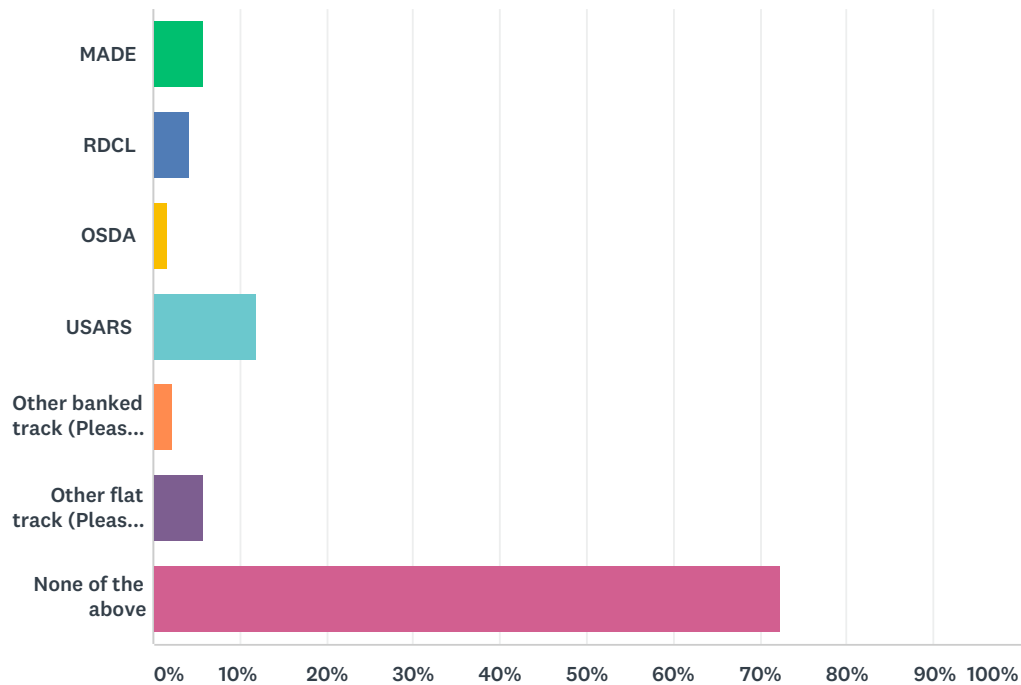
	I CURRENTLY PARTICIPATE AT THIS LEVEL	I USED TO PARTICIPATE AT THIS LEVEL	I HAVE NEVER PARTICIPATED AT THIS LEVEL	MY LEAGUE DOES NOT OFFER THIS LEVEL	TOTAL
Junior level	6.20% 278	7.72% 346	61.04% 2,735	25.04% 1,122	4,481
Rec league	15.96% 727	31.15% 1,419	27.84% 1,268	25.05% 1,141	4,555
Home teams	35.27% 1,652	38.92% 1,823	13.51% 633	12.30% 576	4,684
Local region ("C") teams	22.23% 1,005	29.85% 1,349	27.08% 1,224	20.84% 942	4,520
Mid-region ("B") teams	28.97% 1,327	34.04% 1,559	27.47% 1,258	9.52% 436	4,580
Global travel ("A") teams	26.45% 1,192	18.88% 851	40.51% 1,826	14.16% 638	4,507

**Q5 Excluding scrimmages and pickup games, what is the approximate number of games you participate in in a given year?**

Answered: 4,774   Skipped: 781

## Q6 Have you ever participated in roller derby games using the following rulesets? (Please select all that apply.)

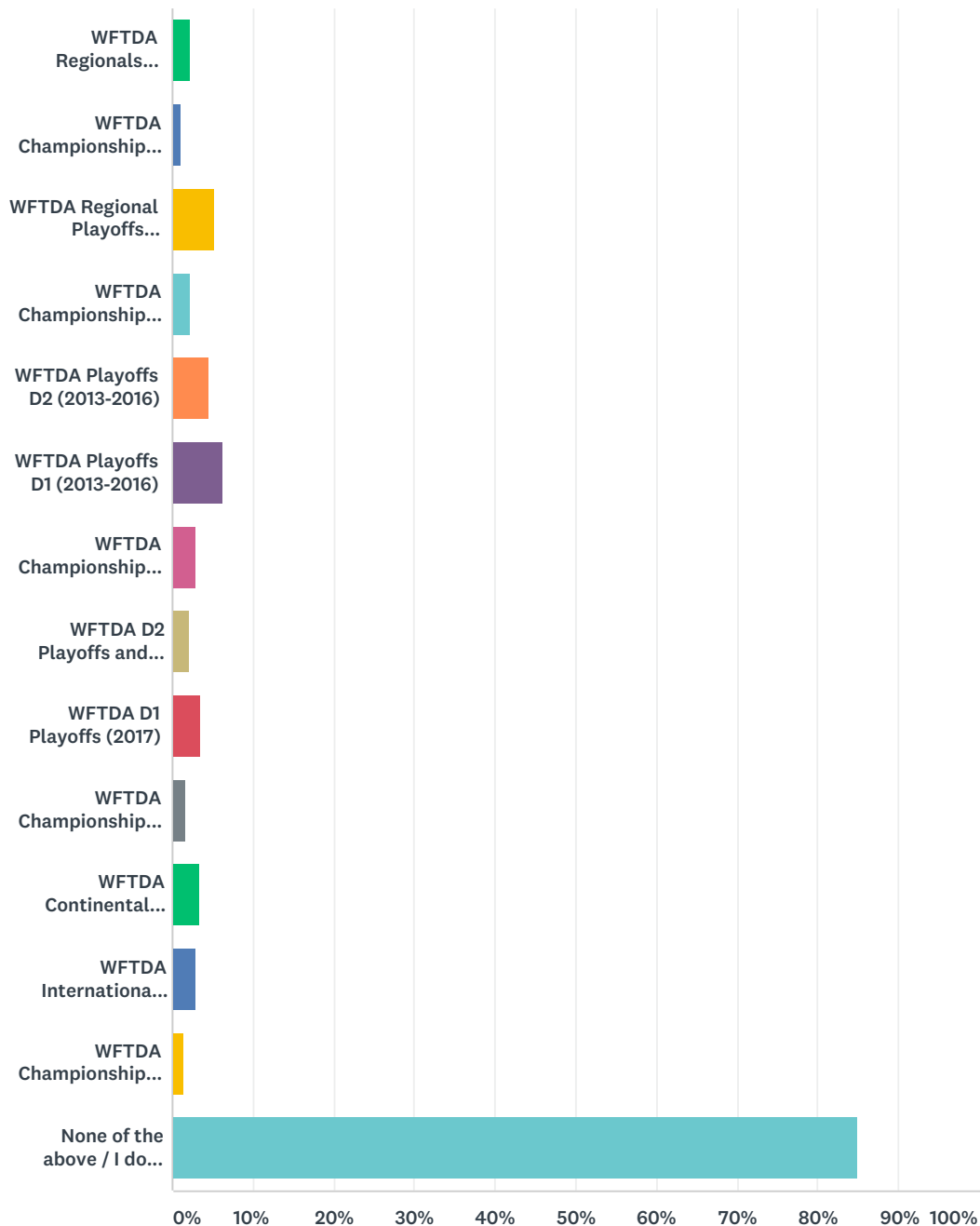
Answered: 4,569 Skipped: 986



ANSWER CHOICES	RESPONSES	
MADE	5.82%	266
RDCL	4.11%	188
OSDA	1.77%	81
USARS	11.91%	544
Other banked track (Please specify below)	2.23%	102
Other flat track (Please specify below)	5.93%	271
None of the above	72.31%	3,304
Total Respondents: 4,569		

## Q7 Have you ever participated in roller derby games at the following events? (Please select all that apply.)

Answered: 4,793 Skipped: 762



ANSWER CHOICES	RESPONSES	
WFTDA Regionals (2006-2008)	2.40%	115
WFTDA Championships (2006-2008)	1.00%	48
WFTDA Regional Playoffs (2009-2012)	5.24%	251
WFTDA Championships (2009-2012)	2.21%	106



## WFTDA Safety Global Scan 2019

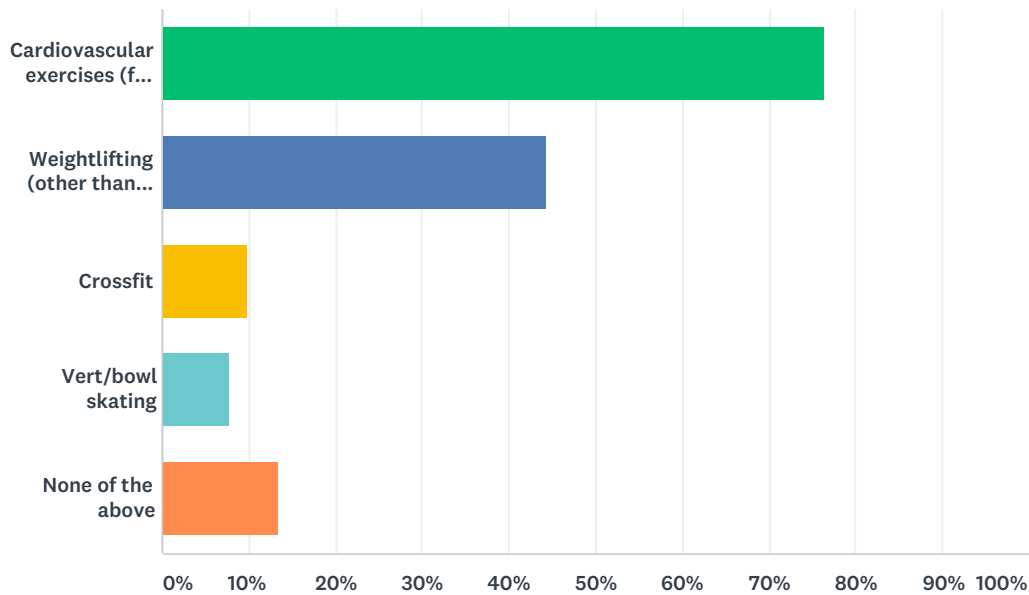
WFTDA Playoffs D2 (2013-2016)	4.55%	218
WFTDA Playoffs D1 (2013-2016)	6.32%	303
WFTDA Championships (2013-2016)	2.88%	138
WFTDA D2 Playoffs and Championships (2017)	2.02%	97
WFTDA D1 Playoffs (2017)	3.55%	170
WFTDA Championships (2017)	1.63%	78
WFTDA Continental Cups (2018)	3.28%	157
WFTDA International Playoffs (2018)	2.92%	140
WFTDA Championships (2018)	1.38%	66
None of the above / I do not recall	84.85%	4,067
Total Respondents: 4,793		

Q8 Excluding roller derby games and practices, about how many days in a given week do you participate in physical activities or exercise? (Please enter a whole number between 0 and 7.)

Answered: 4,809   Skipped: 746

## Q9 What are some of the activities that you currently participate in once or more during a typical week? (Please select all that apply.)

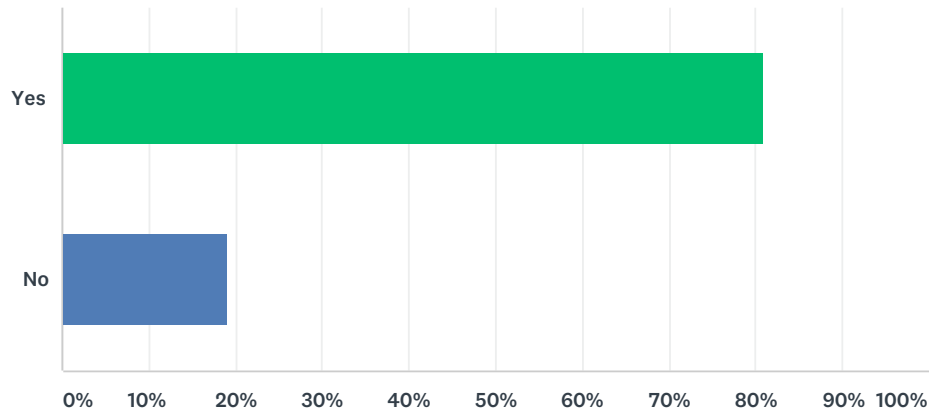
Answered: 4,815 Skipped: 740



ANSWER CHOICES	RESPONSES	
Cardiovascular exercises (for example, cycling, running, hiking, and so on)	76.45%	3,681
Weightlifting (other than Crossfit)	44.38%	2,137
Crossfit	9.82%	473
Vert/bowl skating	7.81%	376
None of the above	13.42%	646
Total Respondents: 4,815		

Q10 From the time you started your involvement in derby until now (even if you are no longer involved in derby), have you ever experienced something that you would describe as an injury?

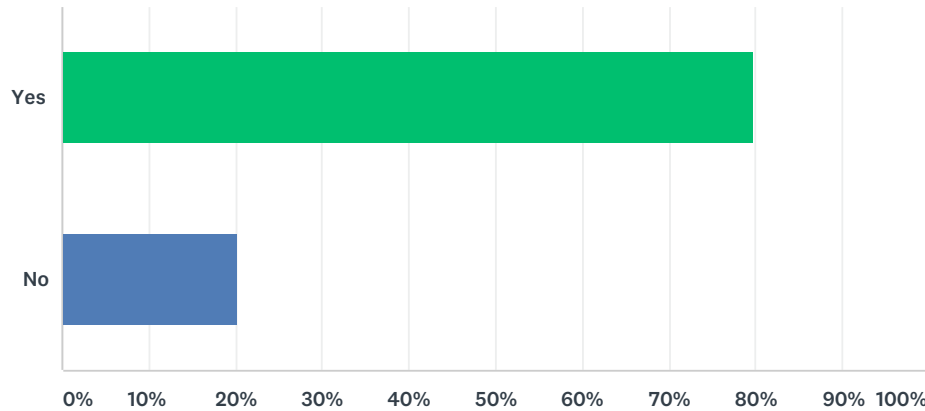
Answered: 4,870 Skipped: 685



ANSWER CHOICES	RESPONSES	
Yes	80.92%	3,941
No	19.08%	929
TOTAL		4,870

## Q11 Have you experienced any injuries, either directly or indirectly, as a result of your involvement in roller derby?

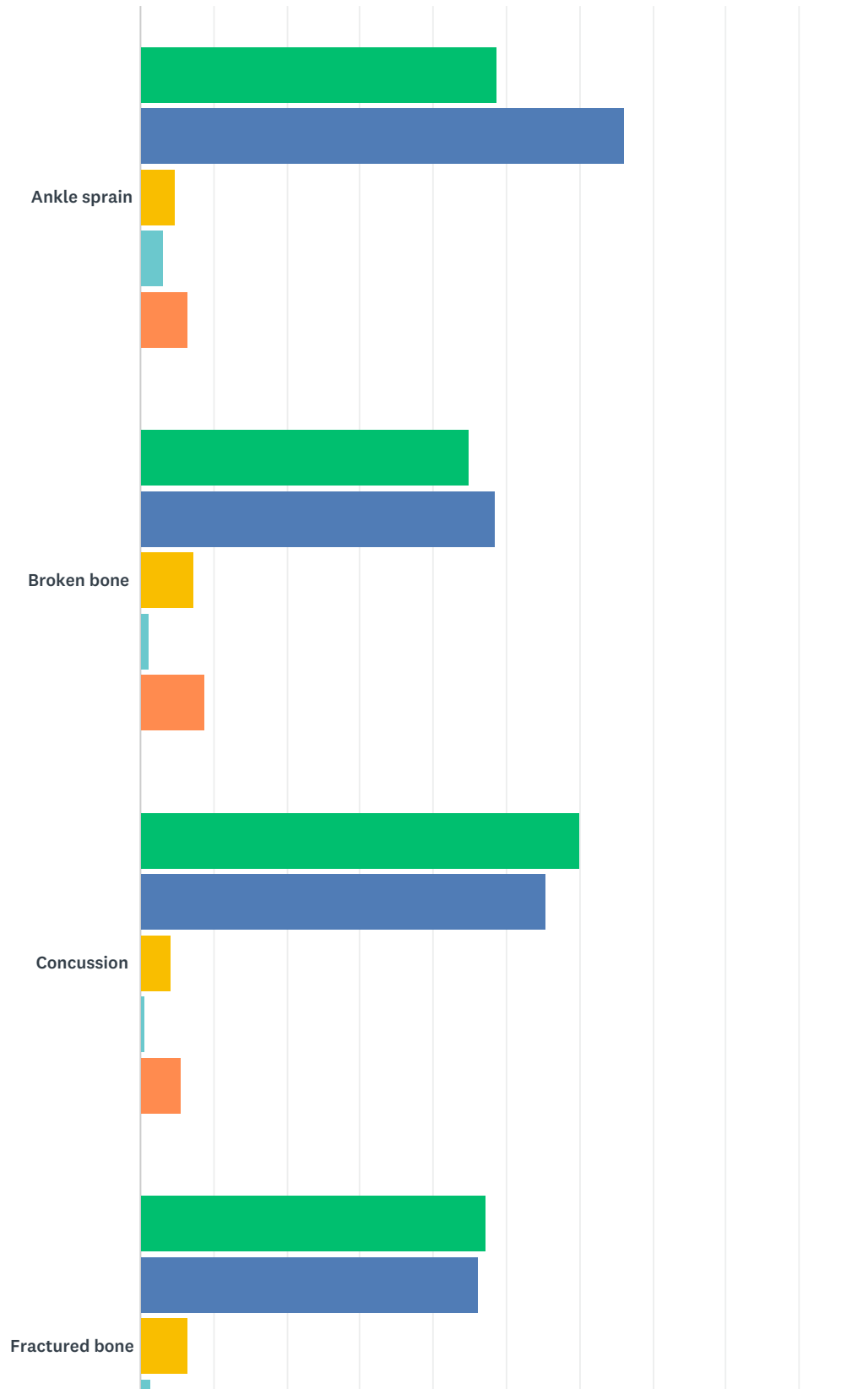
Answered: 4,866 Skipped: 689



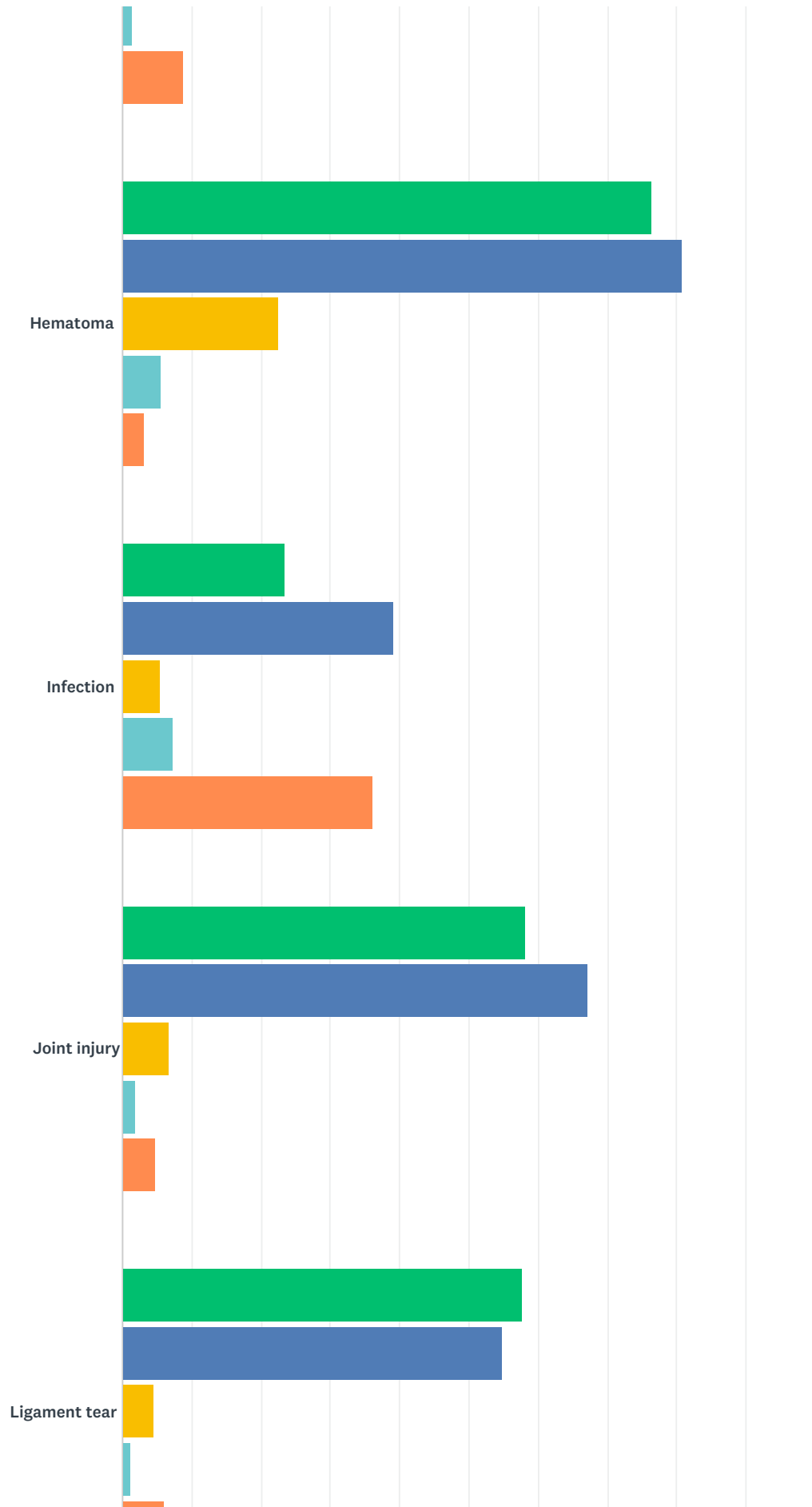
ANSWER CHOICES	RESPONSES	
Yes	79.65%	3,876
No	20.35%	990
TOTAL		4,866

# Q12 Which of the following types of injuries, if any, have you experienced in the following circumstances? (Please select all that apply.)

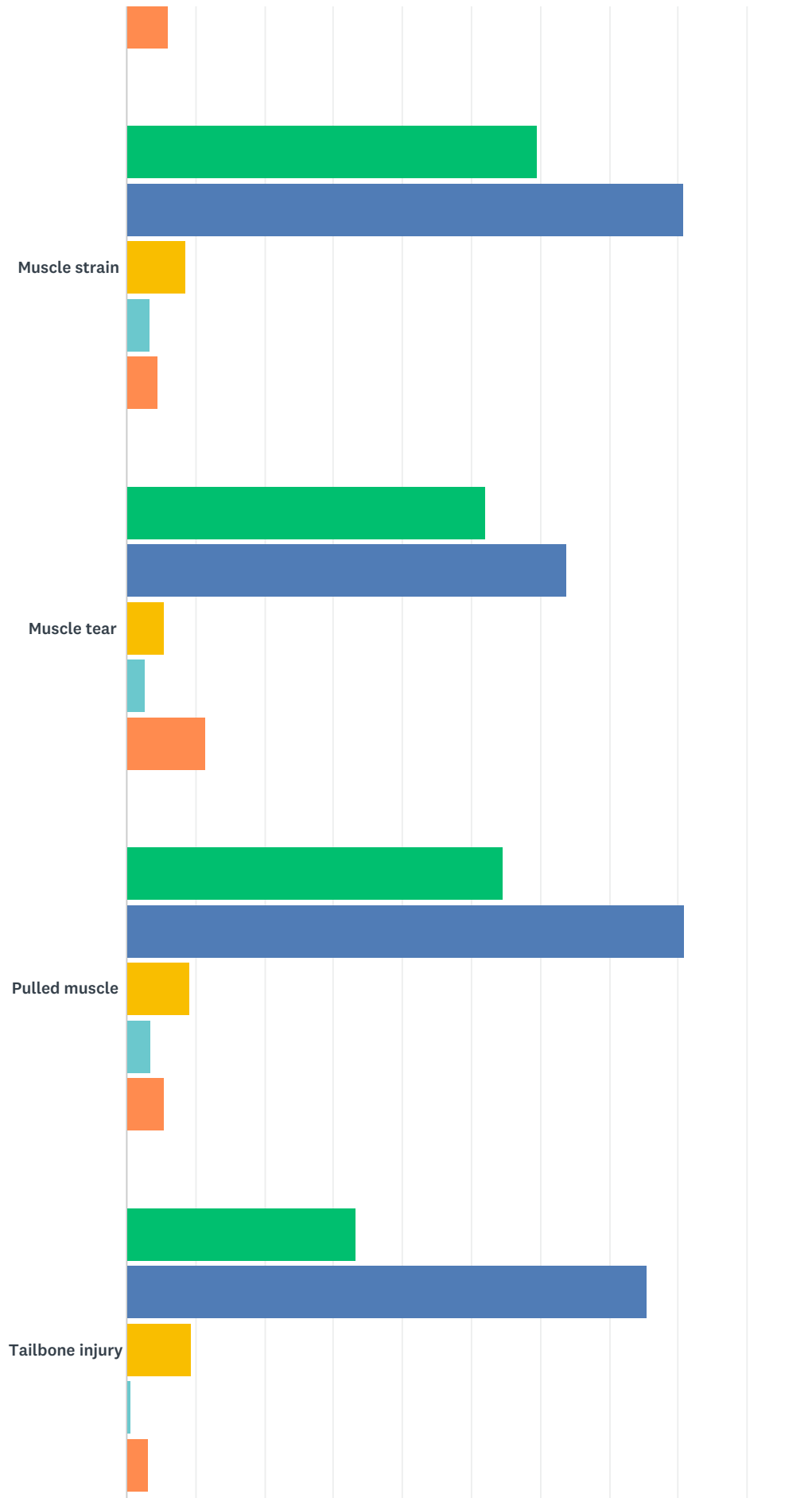
Answered: 3,770 Skipped: 1,785



# WFTDA Safety Global Scan 2019

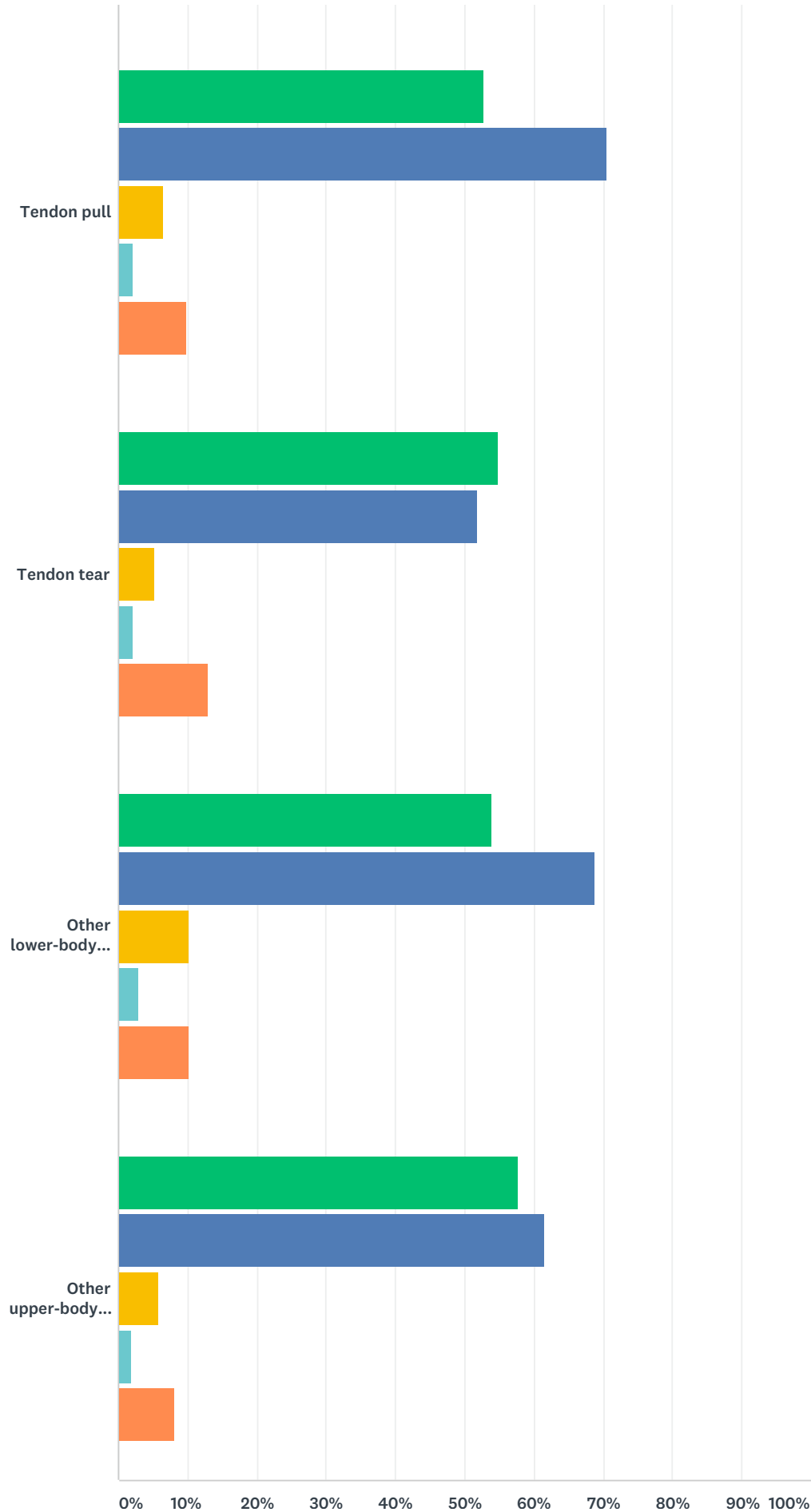


# WFTDA Safety Global Scan 2019





# WFTDA Safety Global Scan 2019



# WFTDA Safety Global Scan 2019

■ While skating in a derby game/scrimmage  
■ While skating (practice, non-scrimmage) ■ While skating other (e.g., bowl)  
■ At a derby event, off skates ■ Other

	WHILE SKATING IN A DERBY GAME/SCRIMMAGE	WHILE SKATING (PRACTICE, NON- SCRIMMAGE)	WHILE SKATING OTHER (E.G., BOWL)	AT A DERBY EVENT, OFF SKATES	OTHER	TOTAL RESPONDENTS
Ankle sprain	48.70% 952	66.19% 1,294	4.76% 93	3.07% 60	6.45% 126	1,955
Broken bone	45.03% 476	48.44% 512	7.28% 77	1.32% 14	8.80% 93	1,057
Concussion	60.08% 909	55.45% 839	4.23% 64	0.73% 11	5.55% 84	1,513
Fractured bone	47.38% 434	46.29% 424	6.55% 60	1.42% 13	8.84% 81	916
Hematoma	76.34% 1,226	80.70% 1,296	22.60% 363	5.73% 92	3.05% 49	1,606
Infection	23.53% 48	39.22% 80	5.39% 11	7.35% 15	36.27% 74	204
Joint injury	58.23% 1,026	67.14% 1,183	6.75% 119	1.82% 32	4.88% 86	1,762
Ligament tear	57.77% 643	54.72% 609	4.58% 51	1.26% 14	6.02% 67	1,113
Muscle strain	59.60% 1,195	80.75% 1,619	8.53% 171	3.39% 68	4.59% 92	2,005
Muscle tear	52.08% 263	63.76% 322	5.35% 27	2.77% 14	11.49% 58	505
Pulled muscle	54.55% 869	81.04% 1,291	9.10% 145	3.58% 57	5.40% 86	1,593
Tailbone injury	33.20% 402	75.56% 915	9.50% 115	0.66% 8	3.22% 39	1,211
Tendon pull	52.66% 267	70.41% 357	6.51% 33	2.17% 11	9.86% 50	507
Tendon tear	54.71% 180	51.98% 171	5.17% 17	2.13% 7	13.07% 43	329
Other lower-body injury	53.98% 434	68.78% 553	10.32% 83	2.99% 24	10.20% 82	804
Other upper-body injury	57.64% 634	61.55% 677	5.91% 65	1.82% 20	8.18% 90	1,100

**Q13 If you selected "Other" for any of the injuries listed in the above question, please elaborate on how your injury occurred.**

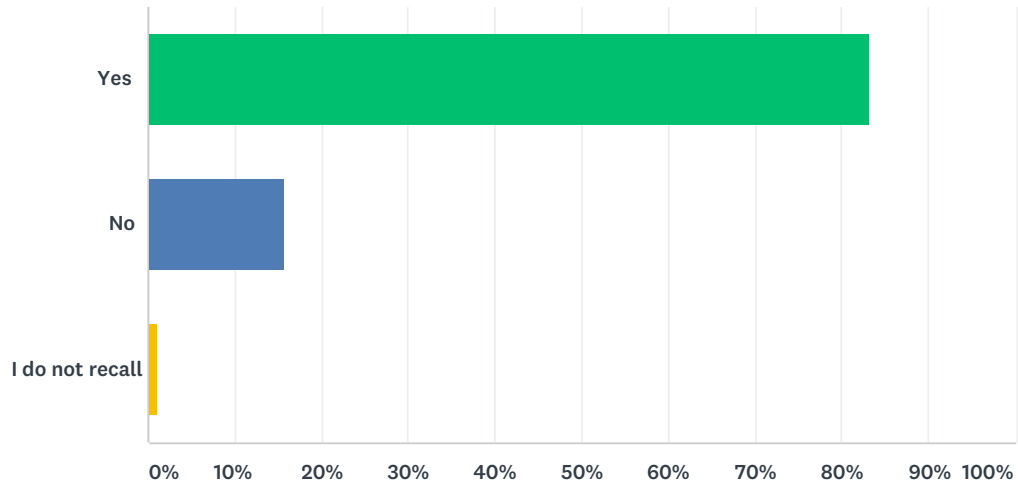
Answered: 769   Skipped: 4,786

Q14 About how many different injuries would you estimate you've experienced as a result of your involvement in roller derby? (Please enter a whole number.)

Answered: 3,546   Skipped: 2,009

## Q15 Did you require any medical treatment for any of the following injuries?

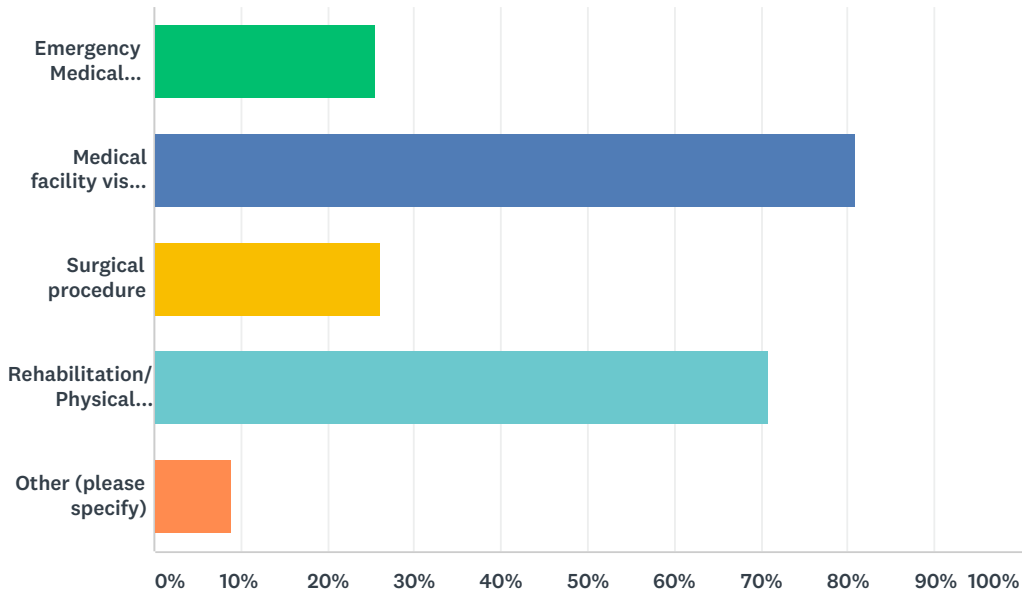
Answered: 3,759 Skipped: 1,796



ANSWER CHOICES		RESPONSES	
Yes		83.27%	3,130
No		15.64%	588
I do not recall		1.09%	41
TOTAL			3,759

## Q16 Which of the following, if any, medical services did you require as a result of any of your injuries? (Please select all that apply.)

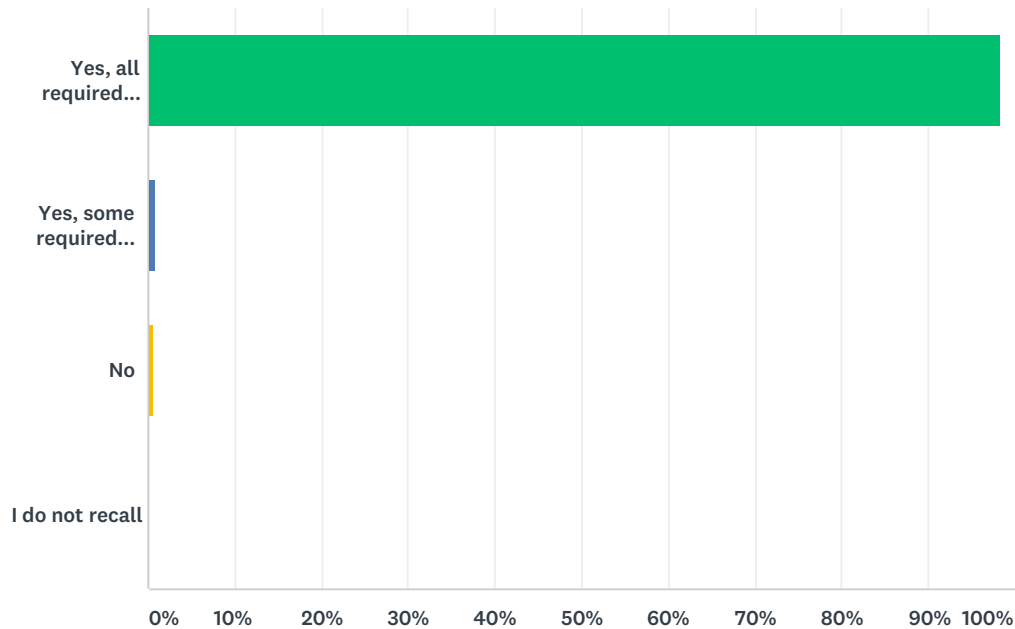
Answered: 3,255 Skipped: 2,300



ANSWER CHOICES	RESPONSES	
Emergency Medical Technician (EMT) treatment	25.53%	831
Medical facility visit (including Hospitals, Urgent Care/Walk-in Centres, and so on)	81.04%	2,638
Surgical procedure	26.14%	851
Rehabilitation/Physical therapy	71.00%	2,311
Other (please specify)	8.97%	292
Total Respondents: 3,255		

Q17 This question is for those who indicated that at least one of your injuries happened on skates. At the time of your injury, were you wearing all required safety equipment (helmet, knee pads, elbow pads, and wrist guards)? (Please note that reporting will only be done in the aggregate. Your honesty is appreciated here.)

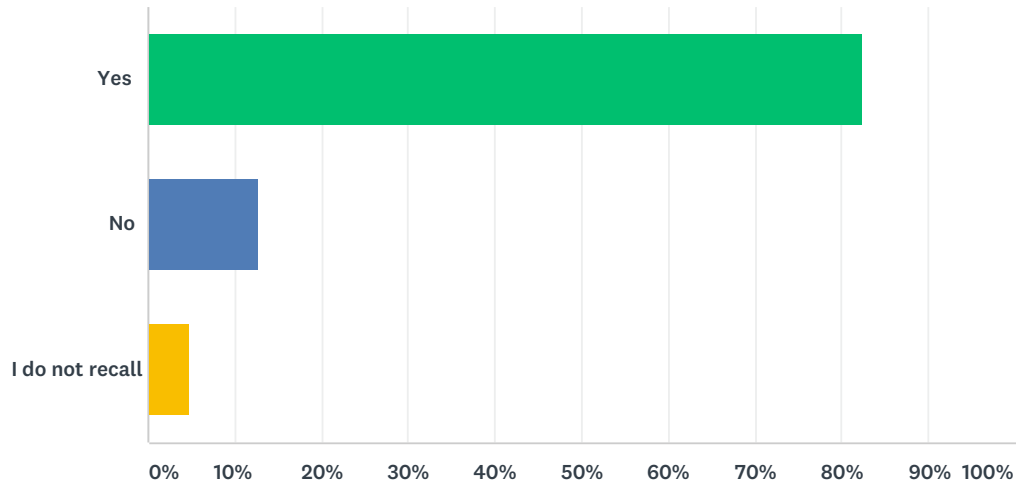
Answered: 3,725 Skipped: 1,830



ANSWER CHOICES	RESPONSES	
Yes, all required equipment	98.34%	3,663
Yes, some required equipment	0.94%	35
No	0.62%	23
I do not recall	0.11%	4
TOTAL		3,725

## Q18 Did you have an active roller derby insurance policy (for example, WFTDA Insurance, CRDi, and so on) at the time?

Answered: 3,720 Skipped: 1,835



ANSWER CHOICES	RESPONSES	
Yes	82.39%	3,065
No	12.85%	478
I do not recall	4.76%	177
TOTAL		3,720

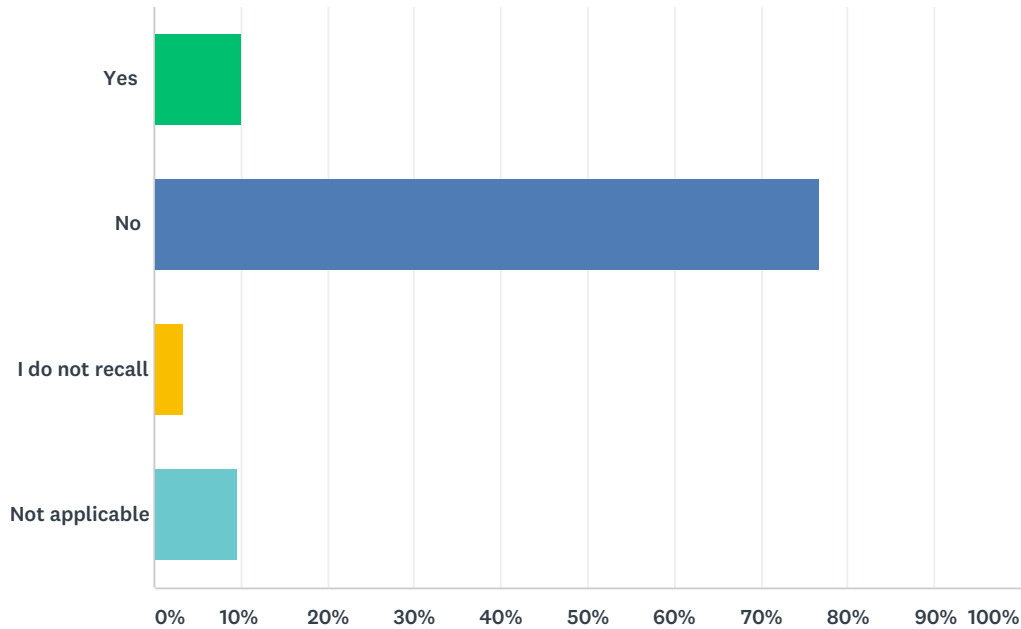


Q19 What was the name of your roller derby insurance provider? (Enter N/A if not applicable.)

Answered: 3,134   Skipped: 2,421

## Q20 Did you submit a claim using your roller derby insurance policy for any of your injuries?

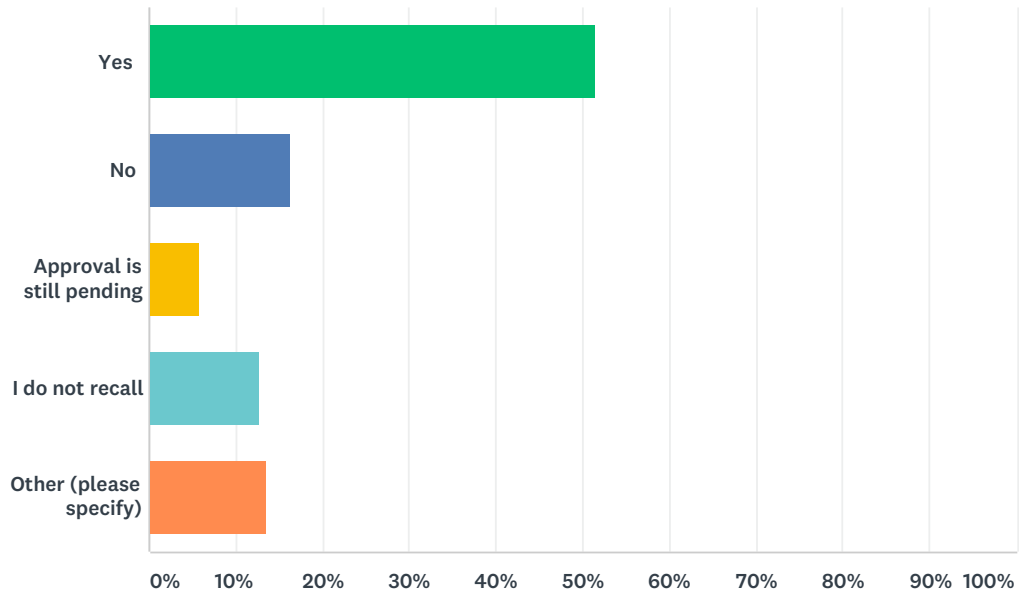
Answered: 3,720 Skipped: 1,835



ANSWER CHOICES	RESPONSES	
Yes	10.11%	376
No	76.88%	2,860
I do not recall	3.39%	126
Not applicable	9.62%	358
TOTAL		3,720

## Q21 Was your claim approved by your roller derby insurance provider?

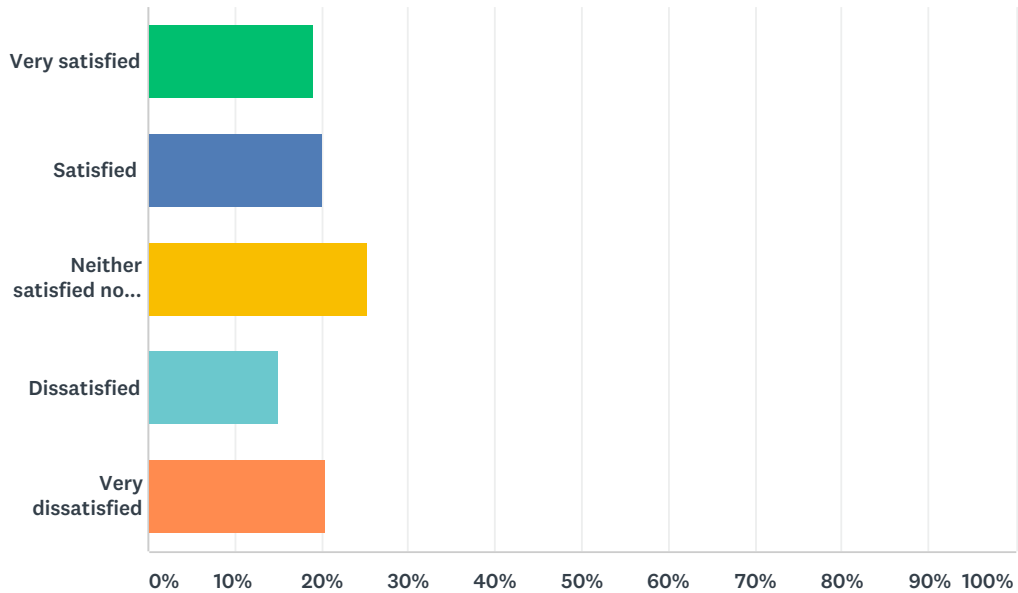
Answered: 381 Skipped: 5,174



ANSWER CHOICES	RESPONSES	
Yes	51.44%	196
No	16.27%	62
Approval is still pending	5.77%	22
I do not recall	12.86%	49
Other (please specify)	13.65%	52
TOTAL		381

## Q22 Overall, how satisfied or dissatisfied were you with your roller derby insurance coverage?

Answered: 374 Skipped: 5,181



ANSWER CHOICES	RESPONSES	
Very satisfied	18.98%	71
Satisfied	20.05%	75
Neither satisfied nor dissatisfied	25.40%	95
Dissatisfied	14.97%	56
Very dissatisfied	20.59%	77
TOTAL		374

## Q23 What would have made you more satisfied with your roller derby insurance coverage?

Answered: 271   Skipped: 5,284

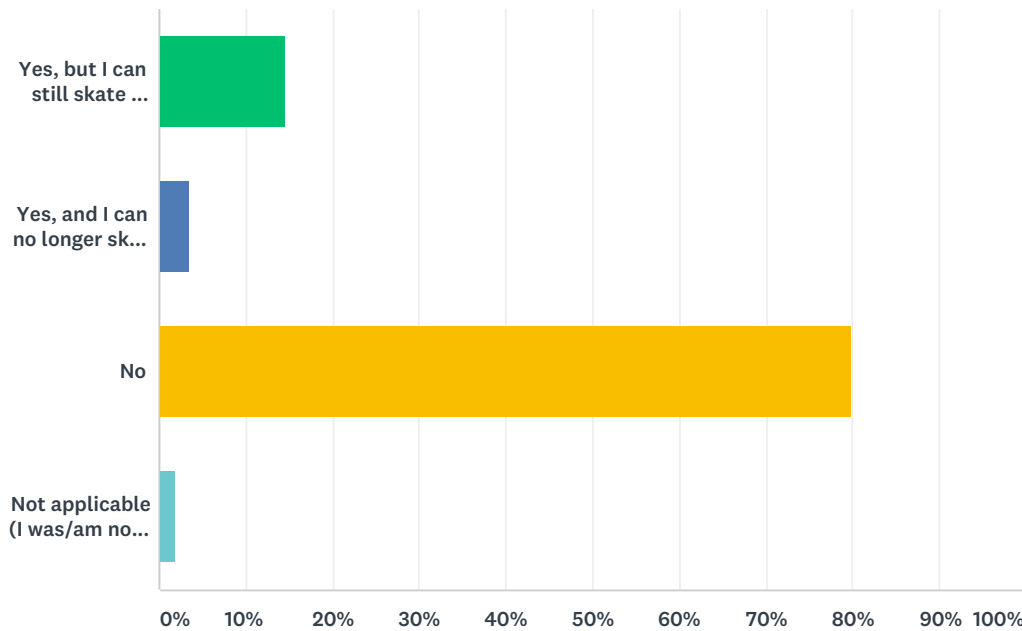
Q24 To the best of your recollection: what was your total out-of-pocket cost across all of your injuries? (Please enter currency and amount; for example, US\$500.)

Answered: 3,150   Skipped: 2,405

ANSWER CHOICES	RESPONSES	
Currency	97.40%	3,068
Amount	95.08%	2,995

## Q25 Did any of your injuries cause you to stop participating in roller derby permanently?

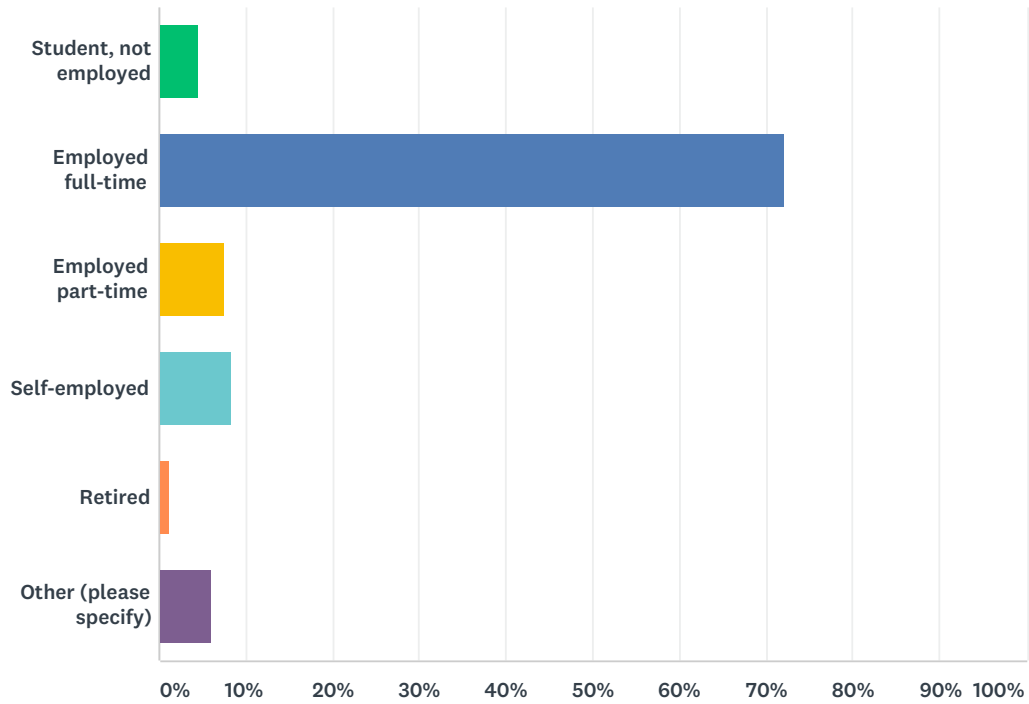
Answered: 3,663 Skipped: 1,892



ANSWER CHOICES	RESPONSES	
Yes, but I can still skate in a non-contact setting	14.61%	535
Yes, and I can no longer skate at all	3.58%	131
No	79.85%	2,925
Not applicable (I was/am not in a skating role)	1.97%	72
TOTAL		3,663

## Q26 What is your current employment status?

Answered: 4,671 Skipped: 884

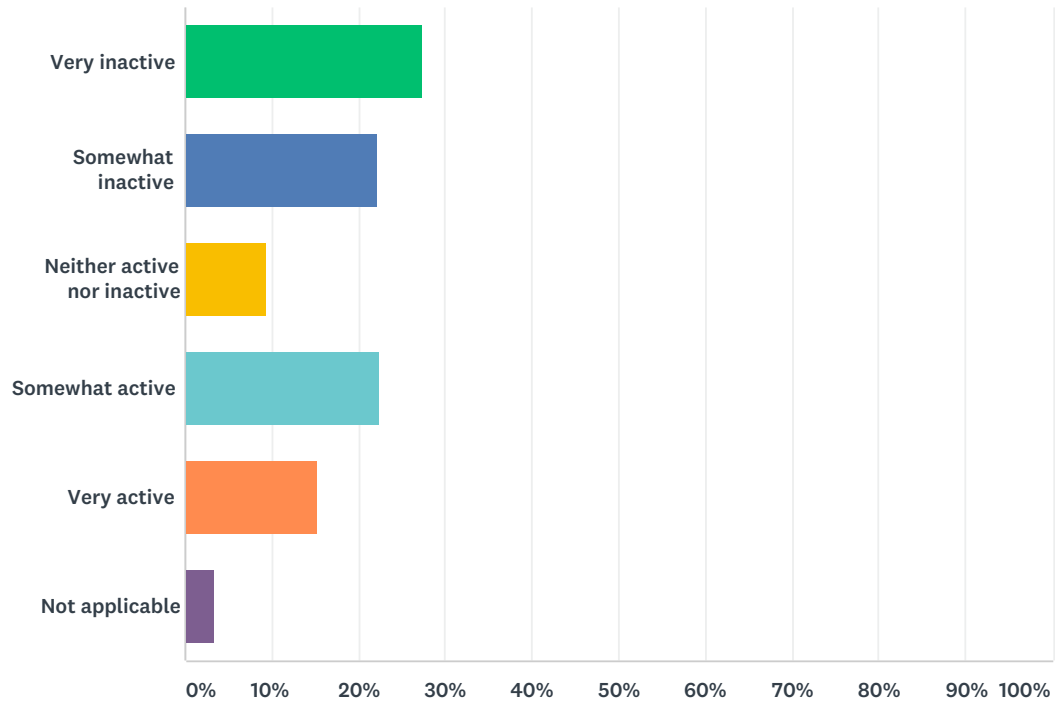


ANSWER CHOICES	RESPONSES	
Student, not employed	4.58%	214
Employed full-time	72.19%	3,372
Employed part-time	7.47%	349
Self-employed	8.35%	390
Retired	1.31%	61
Other (please specify)	6.10%	285
TOTAL		4,671



## Q27 How physically active or not active would you say your job is?

Answered: 4,672 Skipped: 883



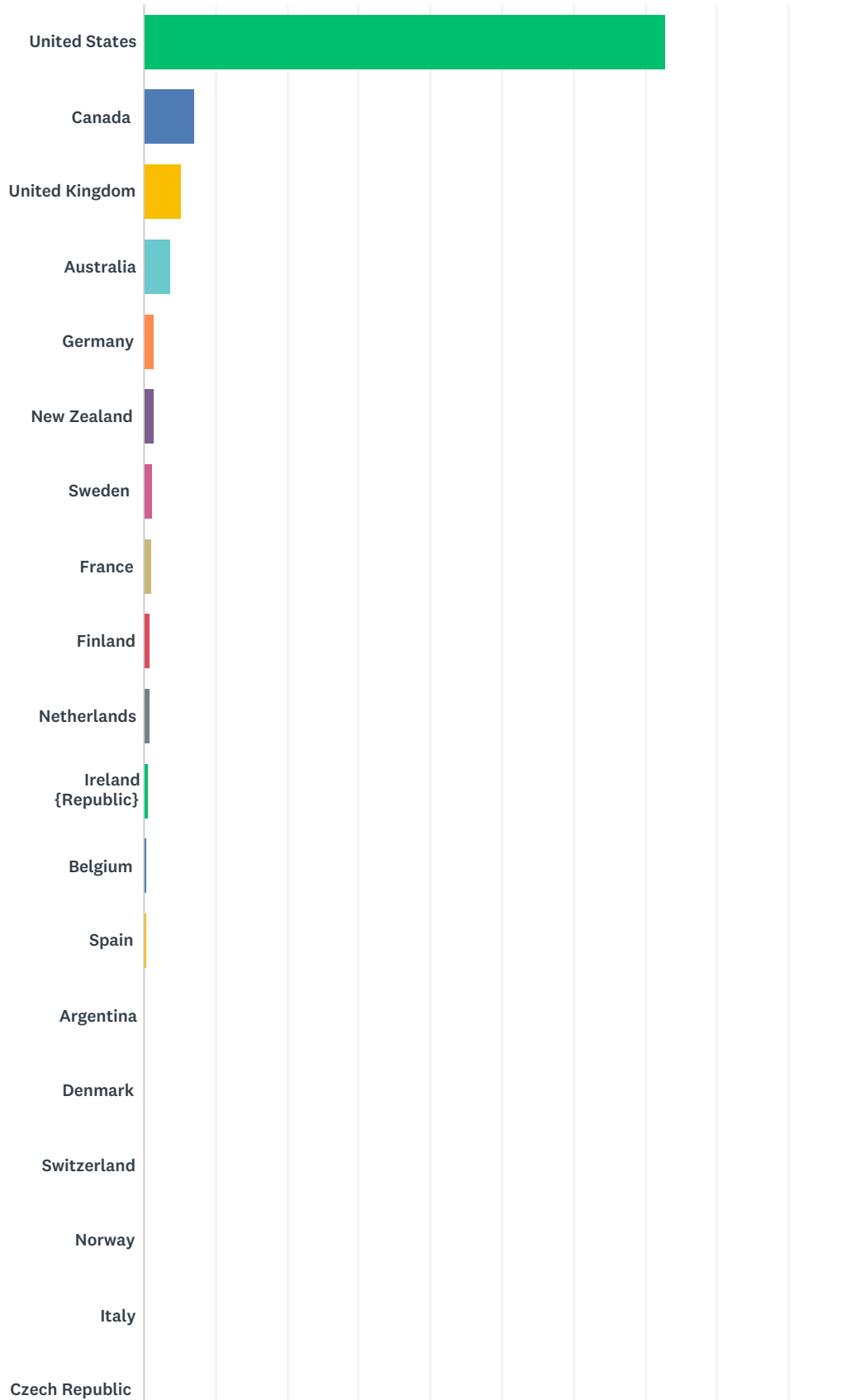
ANSWER CHOICES	RESPONSES	
Very inactive	27.33%	1,277
Somewhat inactive	22.11%	1,033
Neither active nor inactive	9.44%	441
Somewhat active	22.37%	1,045
Very active	15.35%	717
Not applicable	3.40%	159
TOTAL		4,672

## Q28 What is your age? (Please enter a whole number.)

Answered: 4,638   Skipped: 917

## Q29 Where do you currently live?

Answered: 4,621 Skipped: 934



## WFTDA Safety Global Scan 2019

[illegible]

## WFTDA Safety Global Scan 2019

[illegible]

## WFTDA Safety Global Scan 2019

Cameroon									
Cape Verde									
Central African Rep									
Chad									
Comoros									
Congo									
Congo {Democratic...									
Costa Rica									
Croatia									
Cuba									
Cyprus									
Djibouti									
Dominica									
Dominican Republic									
East Timor									
Ecuador									
Egypt									
El Salvador									
Equatorial Guinea									
Eritrea									
Estonia									

## WFTDA Safety Global Scan 2019

Ethiopia										
Fiji										
Gabon										
Gambia										
Ghana										
Greece										
Grenada										
Guatemala										
Guinea										
Guinea-Bissau										
Guyana										
Haiti										
Honduras										
Hungary										
India										
Indonesia										
Iran										
Iraq										
Ivory Coast										
Jamaica										
Jordan										

## WFTDA Safety Global Scan 2019

Kazakhstan
Kenya
Kiribati
Korea North
Kosovo
Kuwait
Kyrgyzstan
Laos
Latvia
Lebanon
Lesotho
Liberia
Libya
Liechtenstein
Lithuania
Luxembourg
Macedonia
Madagascar
Malawi
Malaysia



## WFTDA Safety Global Scan 2019

Mali									
Malta									
Marshall Islands									
Mauritania									
Mauritius									
Micronesia									
Moldova									
Monaco									
Mongolia									
Montenegro									
Morocco									
Mozambique									
Myanmar, {Burma}									
Namibia									
Nauru									
Nepal									
Nicaragua									
Niger									
Oman									
Pakistan									

## WFTDA Safety Global Scan 2019

[illegible]

## WFTDA Safety Global Scan 2019

Sierra Leone										
Singapore										
Slovakia										
Slovenia										
Solomon Islands										
Somalia										
South Sudan										
Sri Lanka										
Sudan										
Suriname										
Swaziland										
Syria										
Taiwan										
Tajikistan										
Tanzania										
Togo										
Tonga										
Trinidad & Tobago										
Tunisia										
Turkey										
Turkmenistan										

## WFTDA Safety Global Scan 2019



ANSWER CHOICES	RESPONSES	
United States	72.86%	3,367
Canada	7.14%	330
United Kingdom	5.26%	243
Australia	3.85%	178
Germany	1.51%	70
New Zealand	1.41%	65
Sweden	1.28%	59
France	1.13%	52
Finland	0.84%	39
Netherlands	0.84%	39
Ireland {Republic}	0.54%	25
Belgium	0.52%	24
Spain	0.39%	18

## WFTDA Safety Global Scan 2019

Argentina	0.30%	14
Denmark	0.28%	13
Switzerland	0.28%	13
Norway	0.26%	12
Italy	0.19%	9
Czech Republic	0.15%	7
South Africa	0.15%	7
Colombia	0.13%	6
Iceland	0.11%	5
Japan	0.11%	5
Mexico	0.09%	4
Austria	0.06%	3
Brazil	0.04%	2
Korea South	0.04%	2
Afghanistan	0.02%	1
Chile	0.02%	1
China	0.02%	1
Georgia	0.02%	1
Israel	0.02%	1
Nigeria	0.02%	1
Peru	0.02%	1
Thailand	0.02%	1
Uruguay	0.02%	1
Vietnam	0.02%	1
Albania	0.00%	0
Algeria	0.00%	0
Andorra	0.00%	0
Angola	0.00%	0
Antigua & Deps	0.00%	0
Armenia	0.00%	0
Azerbaijan	0.00%	0
Bahamas	0.00%	0
Bahrain	0.00%	0
Bangladesh	0.00%	0

# WFTDA Safety Global Scan 2019

Barbados	0.00%	0
Belarus	0.00%	0
Belize	0.00%	0
Benin	0.00%	0
Bhutan	0.00%	0
Bolivia	0.00%	0
Bosnia Herzegovina	0.00%	0
Botswana	0.00%	0
Brunei	0.00%	0
Bulgaria	0.00%	0
Burkina	0.00%	0
Burundi	0.00%	0
Cambodia	0.00%	0
Cameroon	0.00%	0
Cape Verde	0.00%	0
Central African Rep	0.00%	0
Chad	0.00%	0
Comoros	0.00%	0
Congo	0.00%	0
Congo {Democratic Rep}	0.00%	0
Costa Rica	0.00%	0
Croatia	0.00%	0
Cuba	0.00%	0
Cyprus	0.00%	0
Djibouti	0.00%	0
Dominica	0.00%	0
Dominican Republic	0.00%	0
East Timor	0.00%	0
Ecuador	0.00%	0
Egypt	0.00%	0
El Salvador	0.00%	0
Equatorial Guinea	0.00%	0
Eritrea	0.00%	0
Estonia	0.00%	0

## WFTDA Safety Global Scan 2019

Ethiopia	0.00%	0
Fiji	0.00%	0
Gabon	0.00%	0
Gambia	0.00%	0
Ghana	0.00%	0
Greece	0.00%	0
Grenada	0.00%	0
Guatemala	0.00%	0
Guinea	0.00%	0
Guinea-Bissau	0.00%	0
Guyana	0.00%	0
Haiti	0.00%	0
Honduras	0.00%	0
Hungary	0.00%	0
India	0.00%	0
Indonesia	0.00%	0
Iran	0.00%	0
Iraq	0.00%	0
Ivory Coast	0.00%	0
Jamaica	0.00%	0
Jordan	0.00%	0
Kazakhstan	0.00%	0
Kenya	0.00%	0
Kiribati	0.00%	0
Korea North	0.00%	0
Kosovo	0.00%	0
Kuwait	0.00%	0
Kyrgyzstan	0.00%	0
Laos	0.00%	0
Latvia	0.00%	0
Lebanon	0.00%	0
Lesotho	0.00%	0
Liberia	0.00%	0
Libya	0.00%	0

# WFTDA Safety Global Scan 2019

Liechtenstein	0.00%	0
Lithuania	0.00%	0
Luxembourg	0.00%	0
Macedonia	0.00%	0
Madagascar	0.00%	0
Malawi	0.00%	0
Malaysia	0.00%	0
Maldives	0.00%	0
Mali	0.00%	0
Malta	0.00%	0
Marshall Islands	0.00%	0
Mauritania	0.00%	0
Mauritius	0.00%	0
Micronesia	0.00%	0
Moldova	0.00%	0
Monaco	0.00%	0
Mongolia	0.00%	0
Montenegro	0.00%	0
Morocco	0.00%	0
Mozambique	0.00%	0
Myanmar, {Burma}	0.00%	0
Namibia	0.00%	0
Nauru	0.00%	0
Nepal	0.00%	0
Nicaragua	0.00%	0
Niger	0.00%	0
Oman	0.00%	0
Pakistan	0.00%	0
Palau	0.00%	0
Panama	0.00%	0
Papua New Guinea	0.00%	0
Paraguay	0.00%	0
Philippines	0.00%	0
Poland	0.00%	0
Portugal	0.00%	0



## WFTDA Safety Global Scan 2019

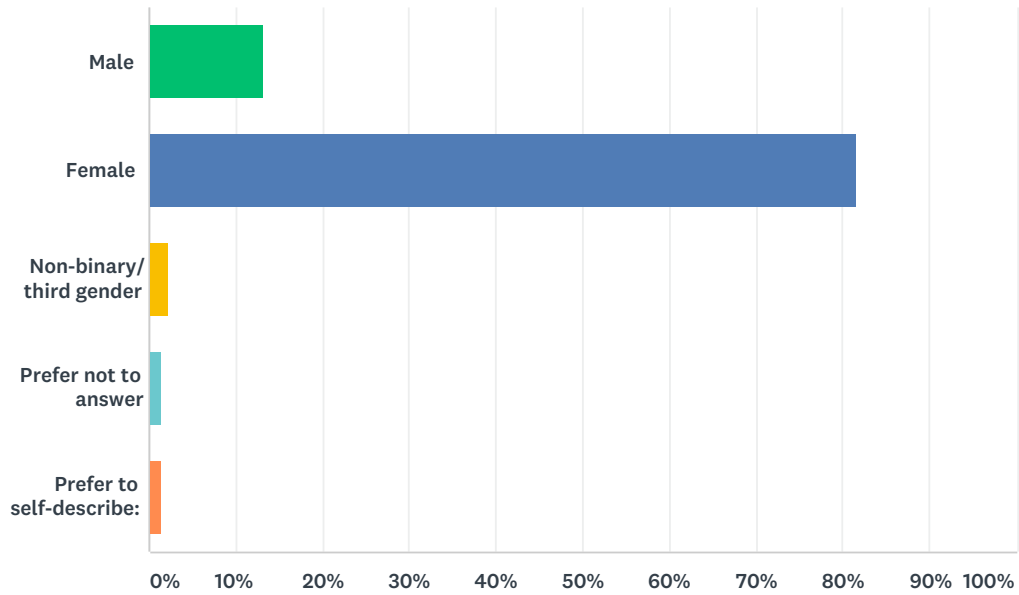
Qatar	0.00%	0
Romania	0.00%	0
Russian Federation	0.00%	0
Rwanda	0.00%	0
St Kitts & Nevis	0.00%	0
St Lucia	0.00%	0
Saint Vincent & the Grenadines	0.00%	0
Samoa	0.00%	0
San Marino	0.00%	0
Sao Tome & Principe	0.00%	0
Saudi Arabia	0.00%	0
Senegal	0.00%	0
Serbia	0.00%	0
Seychelles	0.00%	0
Sierra Leone	0.00%	0
Singapore	0.00%	0
Slovakia	0.00%	0
Slovenia	0.00%	0
Solomon Islands	0.00%	0
Somalia	0.00%	0
South Sudan	0.00%	0
Sri Lanka	0.00%	0
Sudan	0.00%	0
Suriname	0.00%	0
Swaziland	0.00%	0
Syria	0.00%	0
Taiwan	0.00%	0
Tajikistan	0.00%	0
Tanzania	0.00%	0
Togo	0.00%	0
Tonga	0.00%	0
Trinidad & Tobago	0.00%	0
Tunisia	0.00%	0
Turkey	0.00%	0
Turkmenistan	0.00%	0

## WFTDA Safety Global Scan 2019

Tuvalu	0.00%	0
Uganda	0.00%	0
Ukraine	0.00%	0
United Arab Emirates	0.00%	0
Uzbekistan	0.00%	0
Vanuatu	0.00%	0
Vatican City	0.00%	0
Venezuela	0.00%	0
Yemen	0.00%	0
Zambia	0.00%	0
Zimbabwe	0.00%	0
TOTAL		4,621

## Q30 Do you identify as:

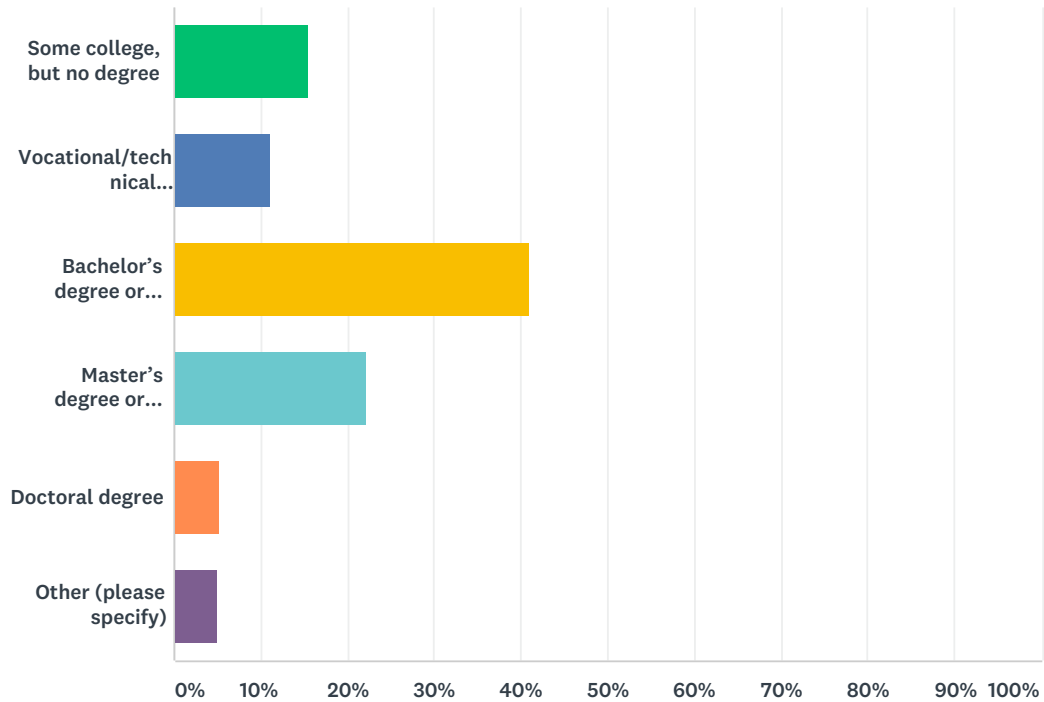
Answered: 4,664 Skipped: 891



ANSWER CHOICES	RESPONSES	
Male	13.19%	615
Female	81.54%	3,803
Non-binary/ third gender	2.34%	109
Prefer not to answer	1.37%	64
Prefer to self-describe:	1.57%	73
TOTAL		4,664

## Q31 What is the highest level of education you have attained?

Answered: 4,646 Skipped: 909



ANSWER CHOICES	RESPONSES	
Some college, but no degree	15.50%	720
Vocational/technical degree/certification	11.04%	513
Bachelor's degree or equivalent	41.07%	1,908
Master's degree or equivalent	22.23%	1,033
Doctoral degree	5.14%	239
Other (please specify)	5.02%	233
TOTAL		4,646

**Q32 If you have any other thoughts you'd like to share on the topics included in this survey, please indicate them here.**

Answered: 1,010   Skipped: 4,545

In order to help ensure the Women's Flat-Track Derby Association (WFTDA) best understand safety habits and concerns of roller derby and derby-adjacent participants worldwide, we would like to hear about your experiences with injuries. Regardless of whether or not you are (or have ever been) active in the sport of roller derby, your input will help the WFTDA improve the tools and resources we offer to all members.

You will have the opportunity to provide specific answers to questions, as well as the opportunity to provide comments in your own words. This survey should take you approximately 10-15 minutes to complete.

You will be asked some personal questions about your medical history as a participant in roller derby. All responses will be completely confidential and only reported in the aggregate. All identifying data will be deleted prior to reporting.

For technical questions related to the survey, please contact [safetystudy@wftda.com](mailto:safetystudy@wftda.com).

1. Which of the following statuses, if any, apply to you? (Please select all that apply.)

	I do this currently	I used to do this	I have never done this
Play roller derby	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Referee roller derby	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
NSO roller derby	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Photograph roller derby	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Announce roller derby	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

\* 2. Which of the following would you consider your primary role in roller derby?

- ☐ Player
- ☐ Referee
- ☐ NSO
- ☐ Photographer
- ☐ Announcer
- ☐ None of the above
- ☐ Other (please specify)

3. In what year did you start being involved in roller derby?

4. Which of the following levels of play have you participated in? (Please select all that apply.)

	I currently <u>participate</u> at this level	I used to <u>participate</u> at this level	I have never <u>participated</u> at this level	My league <u>does not</u> <u>offer</u> this level
Junior level	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rec league	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Home teams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Local region ("C") teams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mid-region ("B") teams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Global travel ("A") teams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

5. Excluding scrimmages and pickup games, what is the approximate number of games you participate in in a given year?

6. Have you ever participated in roller derby games using the following rulesets? (Please select all that apply.)

- ☐ MADE
- ☐ RDCL
- ☐ OSDA
- ☐ USARS
- ☐ Other banked track (Please specify below)
- ☐ Other flat track (Please specify below)
- ☐ None of the above

Other (please specify)



7. Have you ever participated in roller derby games at the following events? (Please select all that apply.)

- ☐ WFTDA Regionals (2006-2008)
- ☐ WFTDA Championships (2006-2008)
- ☐ WFTDA Regional Playoffs (2009-2012)
- ☐ WFTDA Championships (2009-2012)
- ☐ WFTDA Playoffs D2 (2013-2016)
- ☐ WFTDA Playoffs D1 (2013-2016)
- ☐ WFTDA Championships (2013-2016)
- ☐ WFTDA D2 Playoffs and Championships (2017)
- ☐ WFTDA D1 Playoffs (2017)
- ☐ WFTDA Championships (2017)
- ☐ WFTDA Continental Cups (2018)
- ☐ WFTDA International Playoffs (2018)
- ☐ WFTDA Championships (2018)
- ☐ None of the above / I do not recall

This next series of questions asks about your health and well-being while participating in roller derby.

8. Excluding roller derby games and practices, about how many days in a given week do you participate in physical activities or exercise? (Please enter a whole number between 0 and 7.)

9. What are some of the activities that you currently participate in once or more during a typical week? (Please select all that apply.)

☐ Cardiovascular exercises (for example, cycling, running, hiking, and so on)

☐ Weightlifting (other than Crossfit)

☐ Crossfit

☐ Vert/bowl skating

☐ None of the above

Other (please specify)

\* 10. From the time you started your involvement in derby until now (even if you are no longer involved in derby), have you ever experienced something that you would describe as an injury?

☐ Yes

☐ No

\* 11. Have you experienced any injuries, either directly or indirectly, as a result of your involvement in roller derby?

☐ Yes

☐ No

The next series of questions ask you about any injuries you experienced, directly or indirectly, as the result of roller derby.

12. Which of the following types of injuries, if any, have you experienced in the following circumstances? (Please select all that apply.)

	While skating in a derby game/scrimmage	While skating (practice, non- scrimmage)	While skating other (e.g., bowl)	At a derby event, off skates	Other
Ankle sprain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Broken bone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Concussion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fractured bone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hematoma	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Infection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Joint injury	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ligament tear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Muscle strain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Muscle tear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pulled muscle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tailbone injury	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tendon pull	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tendon tear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other lower-body injury	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other upper-body injury	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

13. If you selected "Other" for any of the injuries listed in the above question, please elaborate on how your injury occurred.

14. About how many different injuries would you estimate you've experienced as a result of your involvement in roller derby? (Please enter a whole number.)

15. Did you require any medical treatment for any of the following injuries?

- ☐ Yes
- ☐ No
- ☐ I do not recall

16. Which of the following, if any, medical services did you require as a result of any of your injuries? (Please select all that apply.)

- ☐ Emergency Medical Technician (EMT) treatment
- ☐ Medical facility visit (including Hospitals, Urgent Care/Walk-in Centres, and so on)
- ☐ Surgical procedure
- ☐ Rehabilitation/Physical therapy
- ☐ Other (please specify)

17. This question is for those who indicated that at least one of your injuries happened on skates. At the time of your injury, were you wearing all required safety equipment (helmet, knee pads, elbow pads, and wrist guards)? (Please note that reporting will only be done in the aggregate. Your honesty is appreciated here.)

- ☐ Yes, all required equipment
- ☐ Yes, some required equipment
- ☐ No
- ☐ I do not recall

18. Did you have an active roller derby insurance policy (for example, WFTDA Insurance, CRDi, and so on) at the time?

- ☐ Yes
- ☐ No
- ☐ I do not recall

19. What was the name of your roller derby insurance provider? (Enter N/A if not applicable.)

20. Did you submit a claim using your roller derby insurance policy for any of your injuries?

- ☐ Yes
- ☐ No
- ☐ I do not recall
- ☐ Not applicable

21. Was your claim approved by your roller derby insurance provider?

- ☐ Yes
- ☐ No
- ☐ Approval is still pending
- ☐ I do not recall
- ☐ Other (please specify)

22. Overall, how satisfied or dissatisfied were you with your roller derby insurance coverage?

- ☐ Very satisfied
- ☐ Satisfied
- ☐ Neither satisfied nor dissatisfied
- ☐ Dissatisfied
- ☐ Very dissatisfied



23. What would have made you more satisfied with your roller derby insurance coverage?

24. To the best of your recollection: what was your total out-of-pocket cost across all of your injuries? (Please enter currency and amount; for example, US\$500.)

Currency

Amount

25. Did any of your injuries cause you to stop participating in roller derby permanently?

- ☐ Yes, but I can still skate in a non-contact setting
- ☐ Yes, and I can no longer skate at all
- ☐ No
- ☐ Not applicable (I was/am not in a skating role)

This is your last series of questions.

26. What is your current employment status?

- ☐ Student, not employed
- ☐ Employed full-time
- ☐ Employed part-time
- ☐ Self-employed
- ☐ Retired
- ☐ Other (please specify)

27. How physically active or not active would you say your job is?

- ☐ Very inactive
- ☐ Somewhat inactive
- ☐ Neither active nor inactive
- ☐ Somewhat active
- ☐ Very active
- ☐ Not applicable

28. What is your age? (Please enter a whole number.)

29. Where do you currently live?

30. Do you identify as:

- ☐ Male
- ☐ Female
- ☐ Non-binary/ third gender
- ☐ Prefer not to answer
- ☐ Prefer to self-describe:

31. What is the highest level of education you have attained?

- ☐ Some college, but no degree
- ☐ Vocational/technical degree/certification
- ☐ Bachelor's degree or equivalent
- ☐ Master's degree or equivalent
- ☐ Doctoral degree
- ☐ Other (please specify)

32. If you have any other thoughts you'd like to share on the topics included in this survey, please indicate them here.