

Ludovic Toma CZISZTER,
Flavia Luminița BOCHIȘ



Study on winter indoor jumping championships



*University of Life Sciences" King Mihai I" from Timișoara
Calea Aradului, 119, 300645 Romania*

Faculty of Bioengineering of Animal Resources

SHOWJUMPING COMPETITION CONDITIONS

Warming up **indoor** sand arena: 2000 sqm

Competition **indoor** sand arena: 2800 sqm



- Warming up **outdoor** sand arena: 3150 sqm
- Walking **outdoor** sand arena: 1000 sqm

NATIONAL WINTER TOURS STATISTICS

- Each tour had 6 height rounds/day, from 60 to 140 cm

- **2021**

- 5 events: 3 days each
- 1719 starts
 - 344 starts/ event, 115 starts/day

- **2022**

- 7 events: 3 days each
- 3502 starts
 - 500 starts/ event, 167 starts/day

- **2023**

- 7 events: 3 days each
- 3103 starts
 - 443 starts/ event, 177 starts/day

WTC	Event I	Event II	Event III	Event IV	Event V	Event VI	Event VII
Year	No. couples in the Master List of the event						
2021	121	139	97	118	89	-	-
2022	158	163	144	170	160	160	117
2023	105	191	167	157	149	119	98

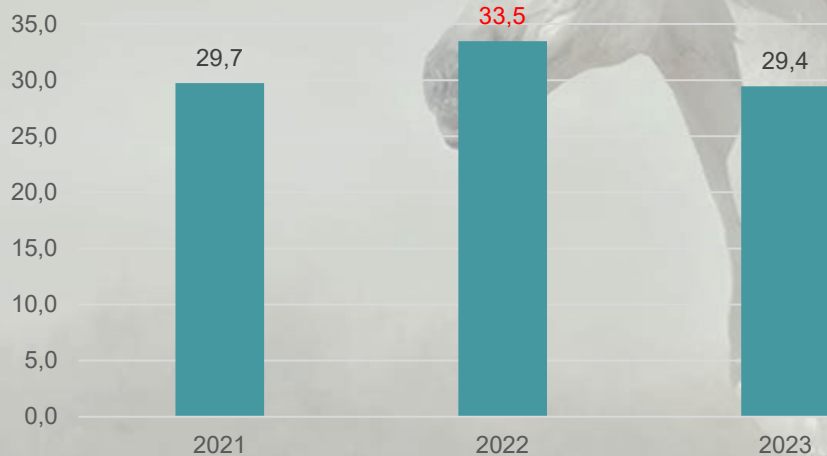
MATERIALS AND METHODS

- 8324 starts in 57 competing days in 341 obstacle courses
- Database was obtained from the official results of the competitions (FER)
- Studied traits
 - Rider-horse couples presented at start per round
 - Couples with no faults/penalties
 - Couples with ≤ 4 points penalty
 - Couples with > 4 points penalty
- Factors taken into study
 - Year: 2021, 2022 and 2023
 - Event: 7 events per competition, except year 2021
 - Test (round/parkour): 17 levels, height & rules of the obstacle parkour, from 60 to 140 cm
- ANOVA Main Effect in STATISTICA software
- Results are presented as percentage of the couples presented at start



Effect of year

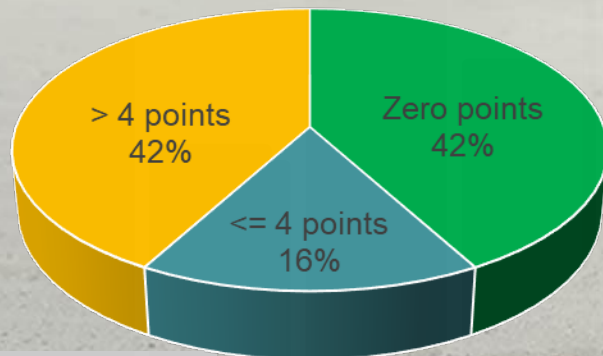
No. of couples took start/round



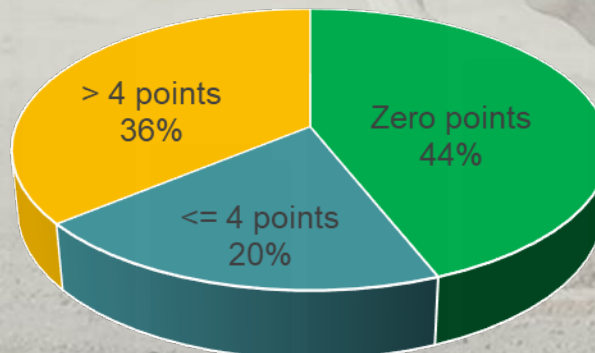
- 4 more couples showing at start in year 2022
- Faultless performance increasing with year
- Less penalty points per round as competition experience increased

Percentage of couples without/with penalties finishing the round, per year

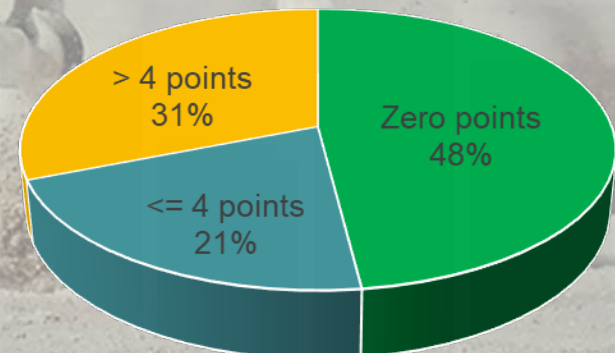
2021



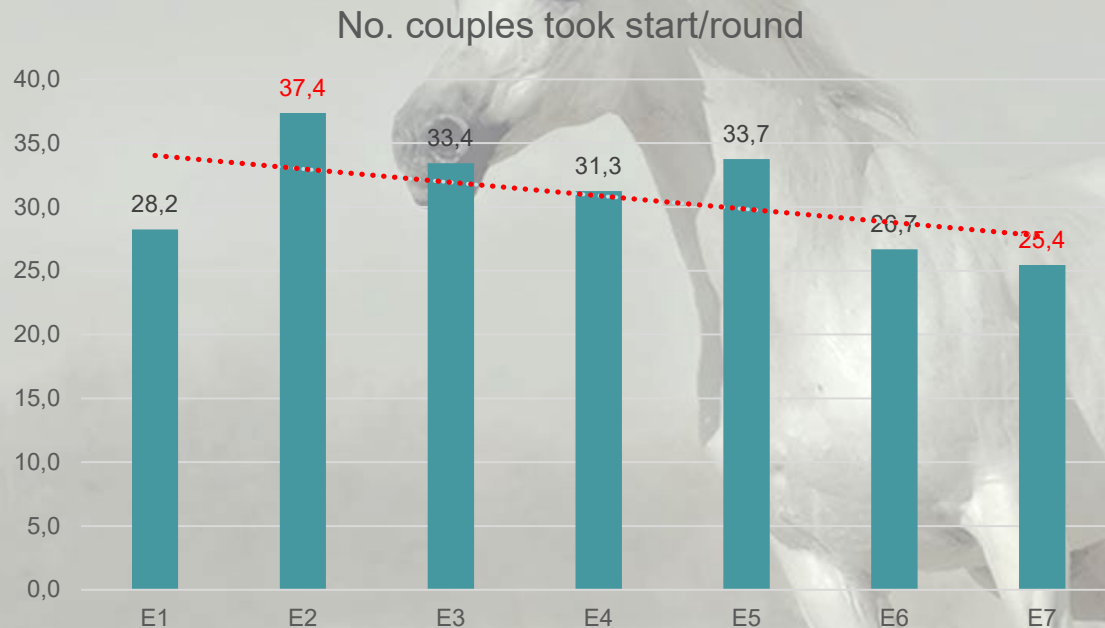
2022



2023



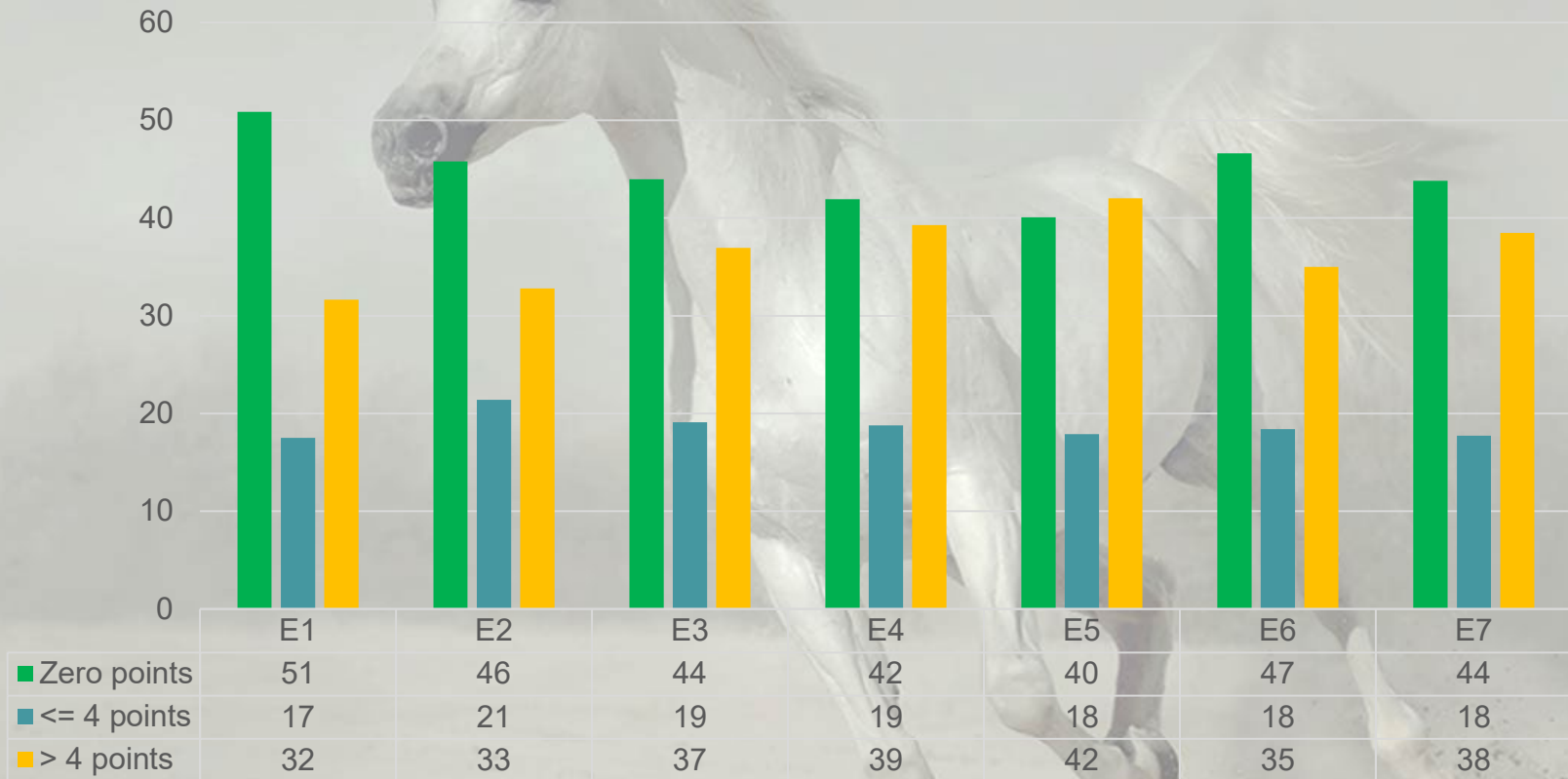
Effect of event



- There was a trend that less couples were present at start (from 37.4 to 25.4) at later events ($p < 0.05$)

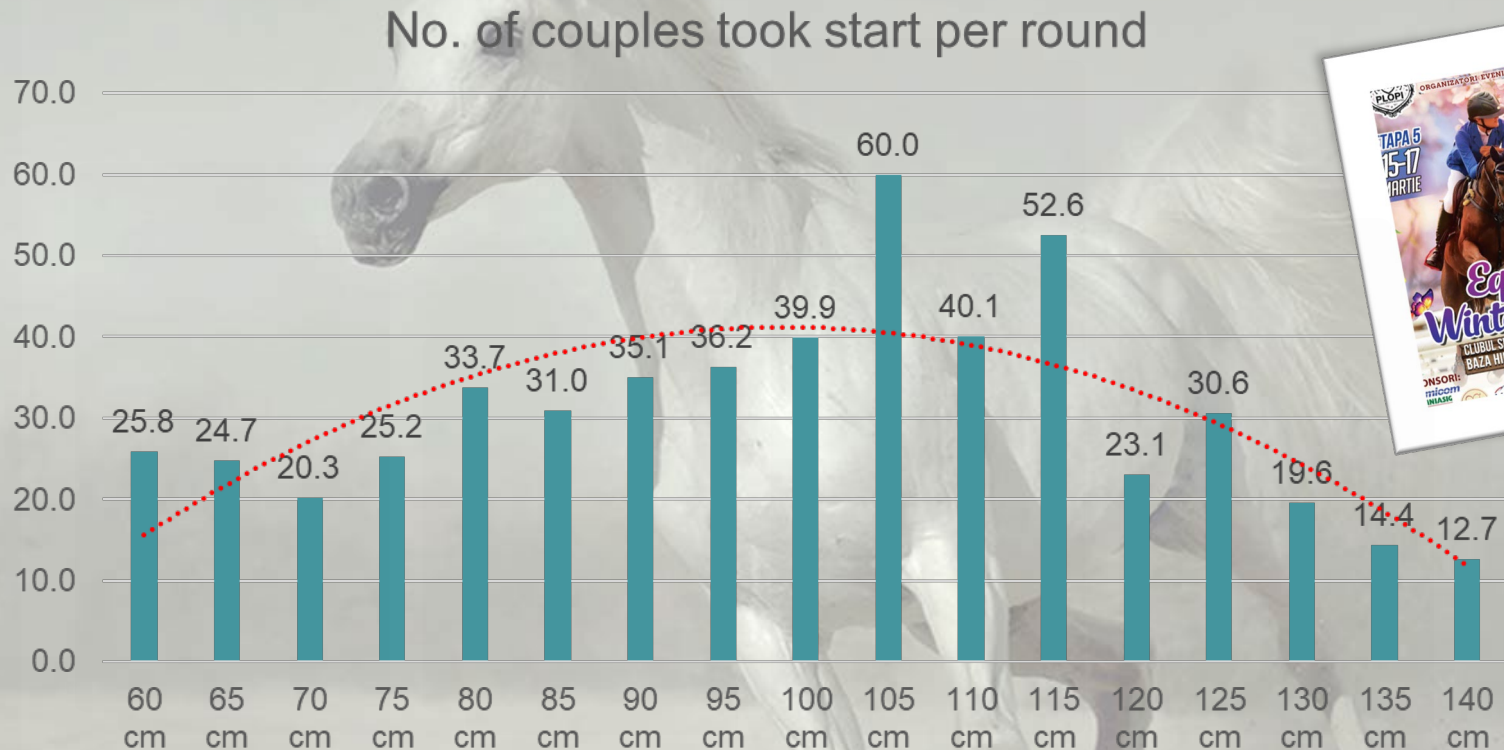
Effect of event

Percentage of couples without/with penalties finishing the round



- Decreasing faultless evolutions with event
- Increasing trend of more than 4 points penalties per round with the event number/obstacle height
- Relative constant proportion of less than 4 points penalties by event

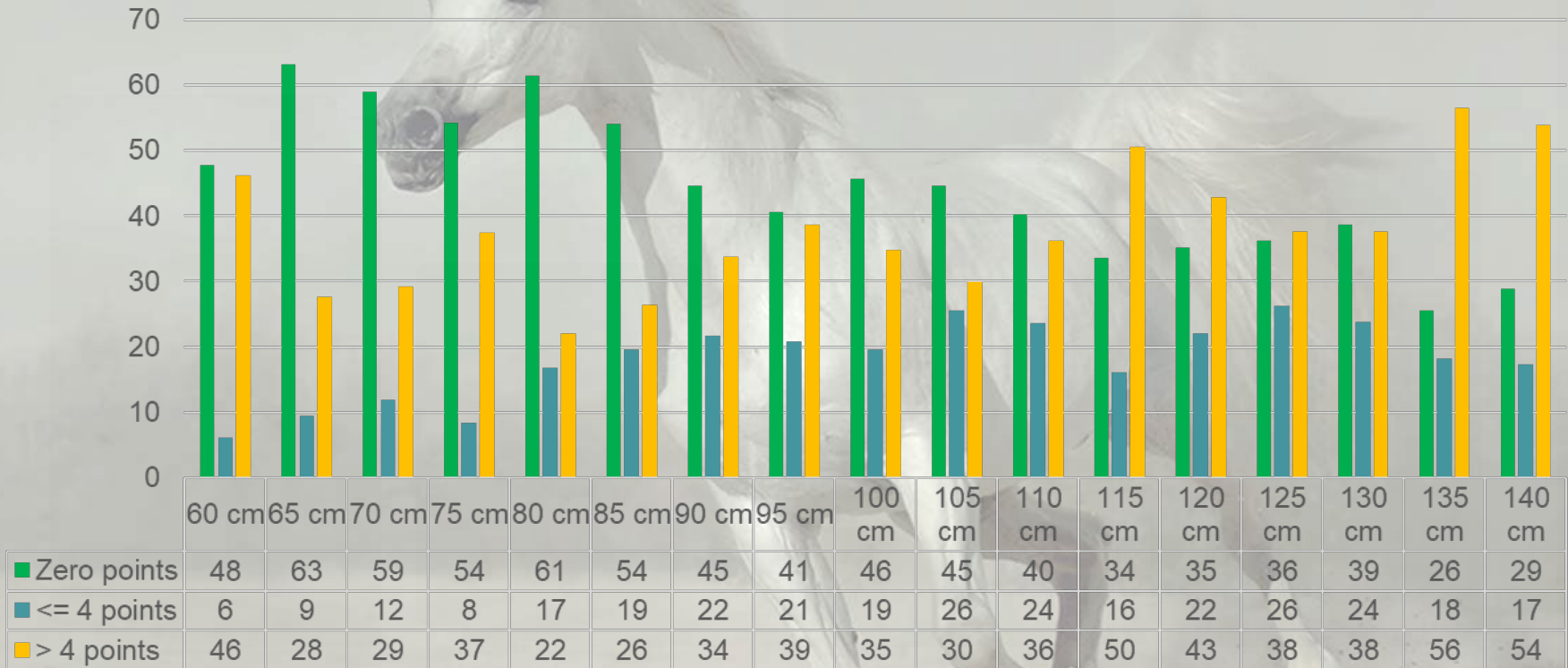
Effects of round/test/parkour



- Most couples presented at start in the intermediate parkours, with a high preference for 100 to 115 cm heights
- Over 120 cm height the number of couples reduced sharply

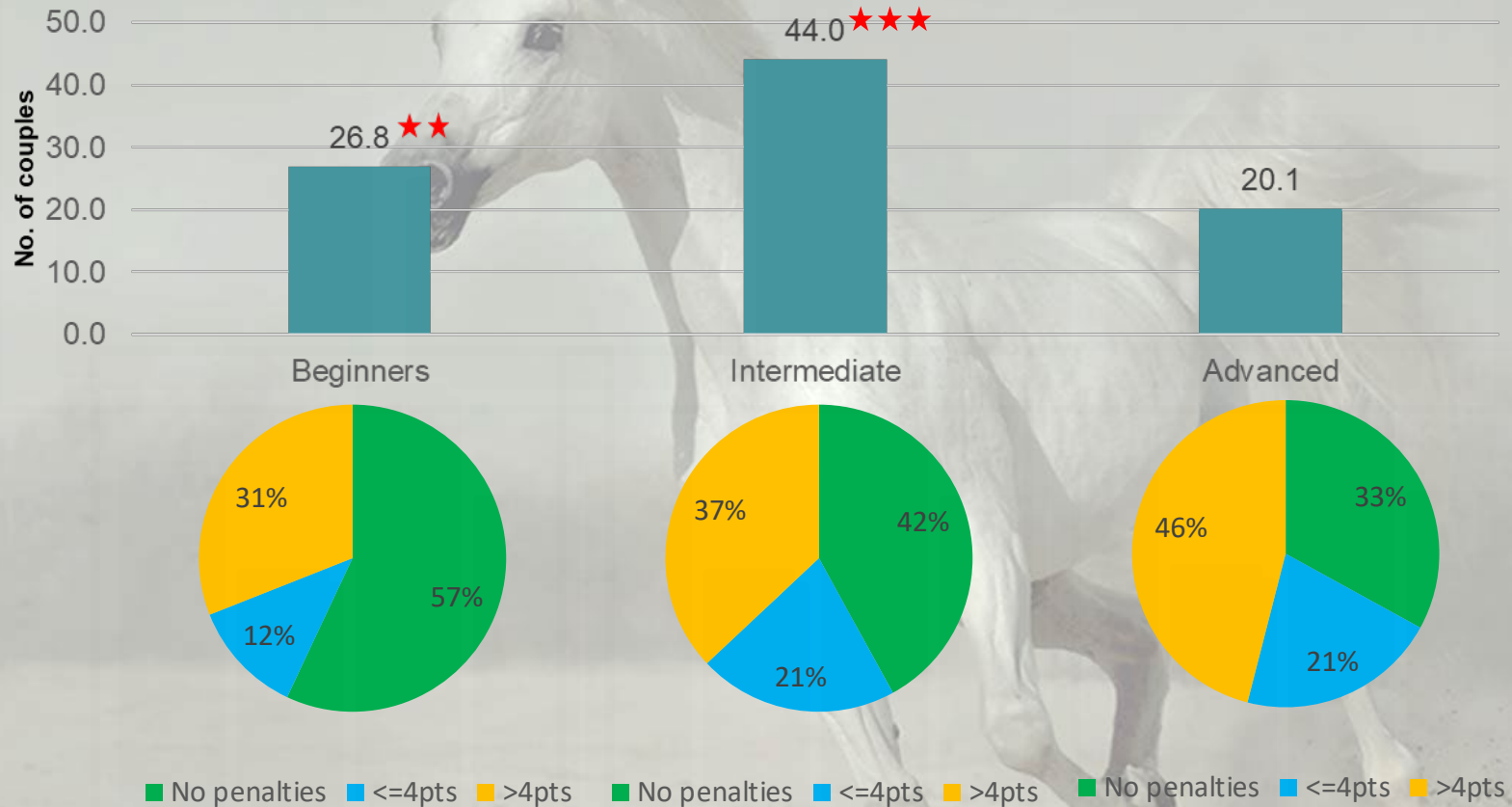
Effect of round/test/parkour

Percentage of couples without/with penalties finishing the parkour



- Faultless evolutions had a decreasing trend as height increased, from 63% in 65 cm to 46% in 100 cm and 26% in 135 cm
- The other way around was observed for more than 4 points penalty

Effects of round/test/parkour

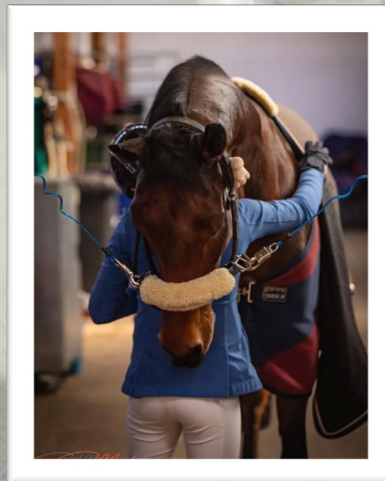


- Levels of performance by height
 - Beginners: 60 to 85 cm
 - Intermediate: 90 to 115 cm
 - Advanced: 120 to 140 cm

Conclusions

- All three studied factors **year**, **event** and **parkour height** had a significant effect on performance results in the winter indoor showjumping competitions
- **Year**, **event** and **parkour level** played an important role in determining the ranking of rider-horse couples in the indoor showjumping championships

THANK



YOU!

Photos by:

