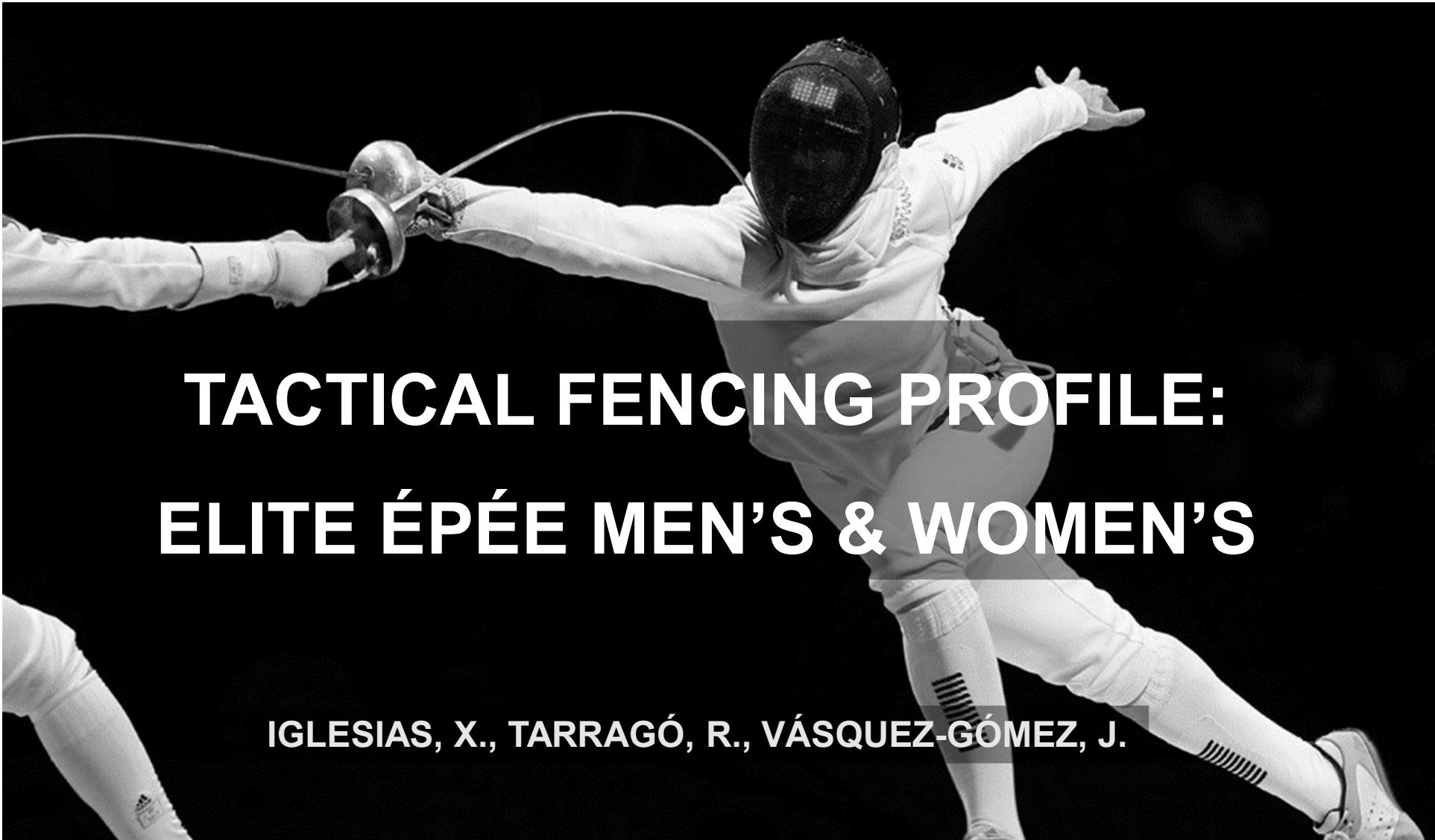




TACTICAL FENCING PROFILE: ELITE ÉPÉE MEN'S & WOMEN'S

IGLESIAS, X., TARRAGÓ, R., VÁSQUEZ-GÓMEZ, J.



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INTRODUCTION



TACTICAL FENCING PROFILE: ELITE ÉPÉE MEN'S & WOMEN'S

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- Las decisiones tácticas son determinantes para el éxito en la esgrima

- AIM

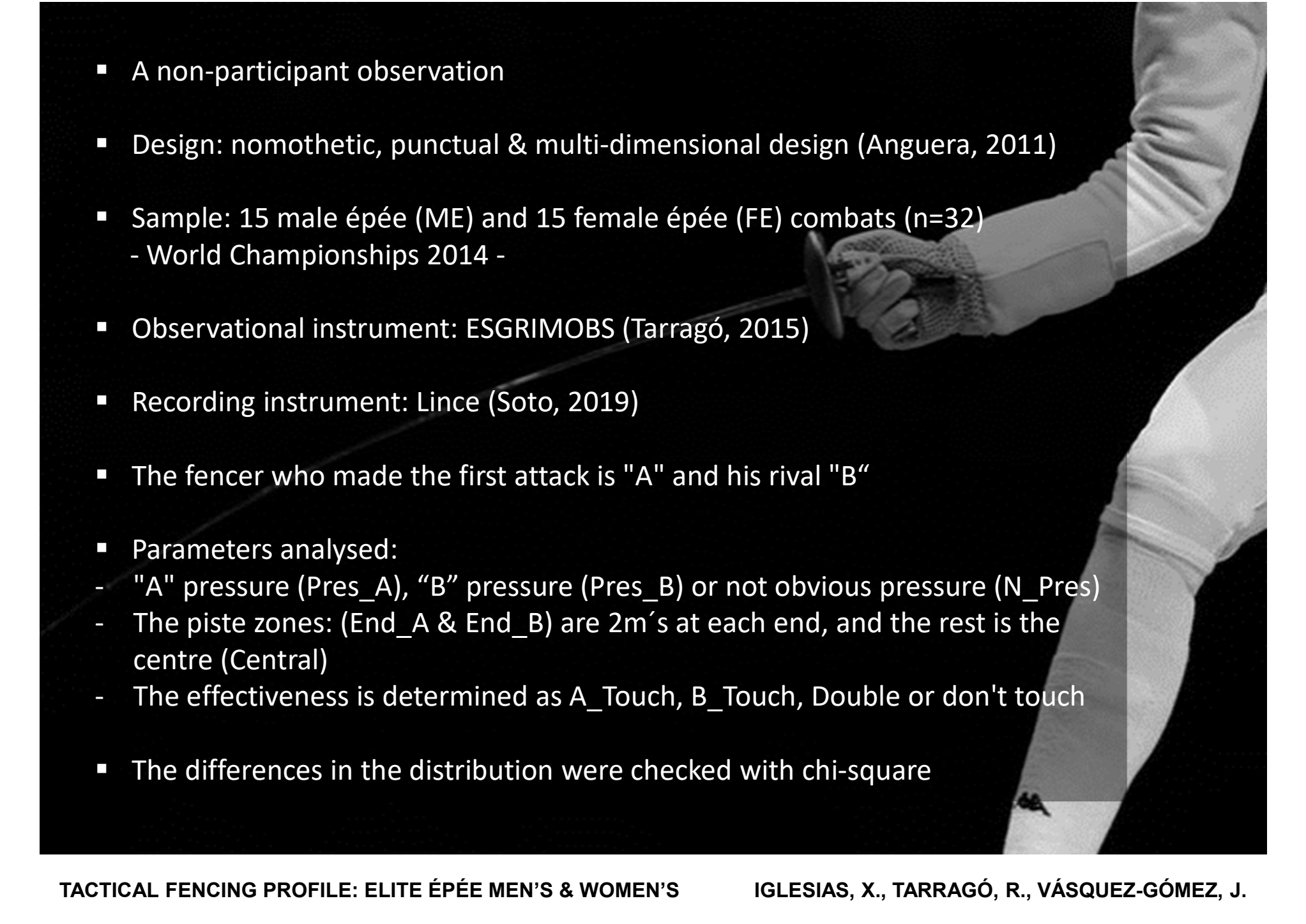
To determine the effectiveness of elite female and male épée fencers based on the initiative of attack, the pressure and the piste area

METHODS

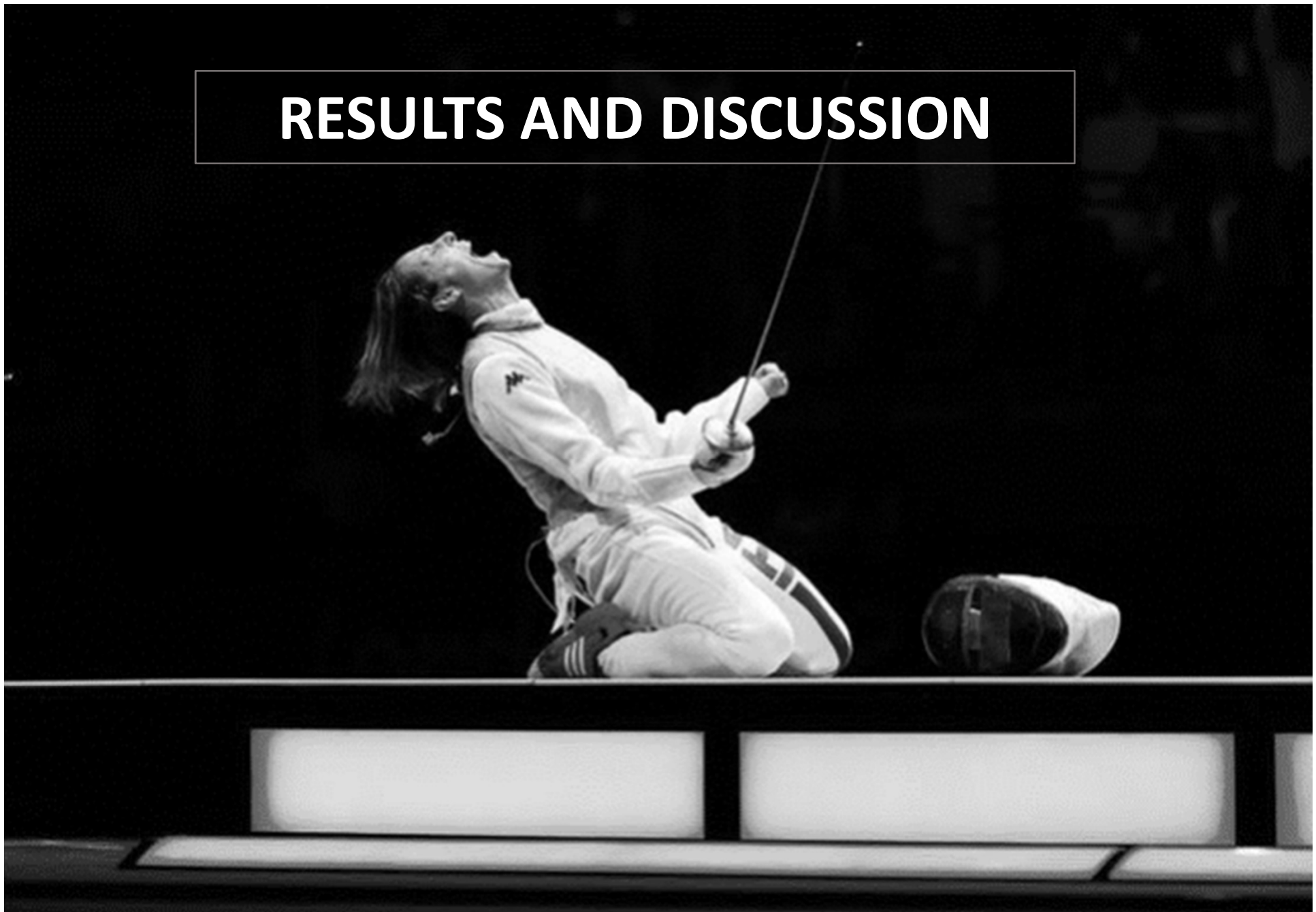


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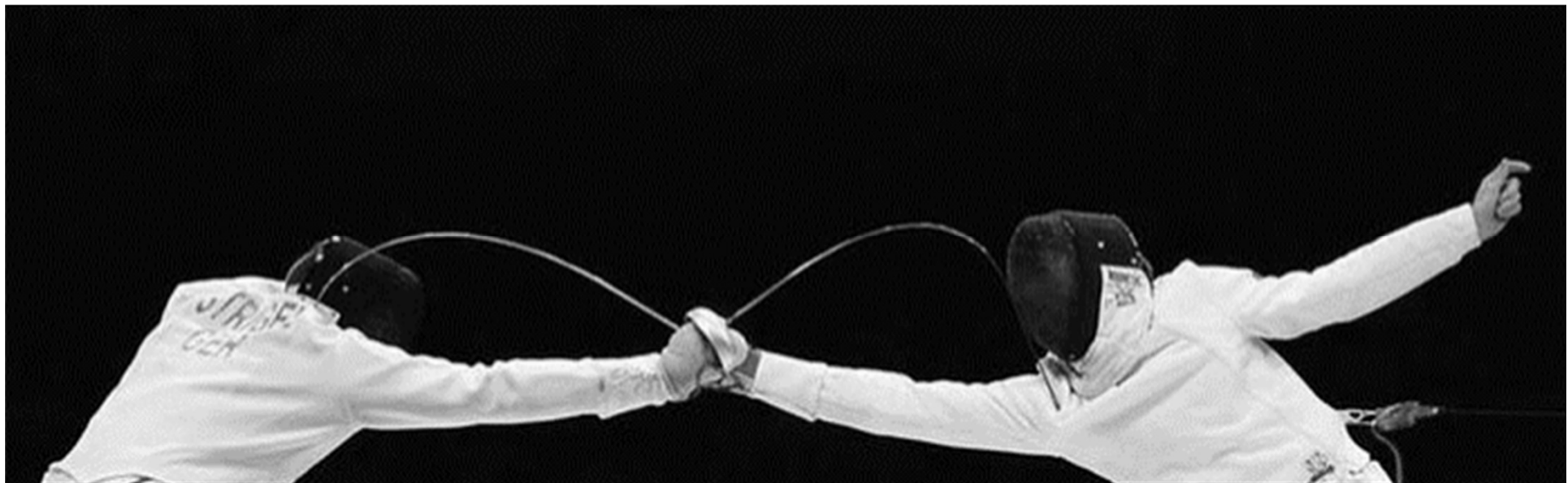
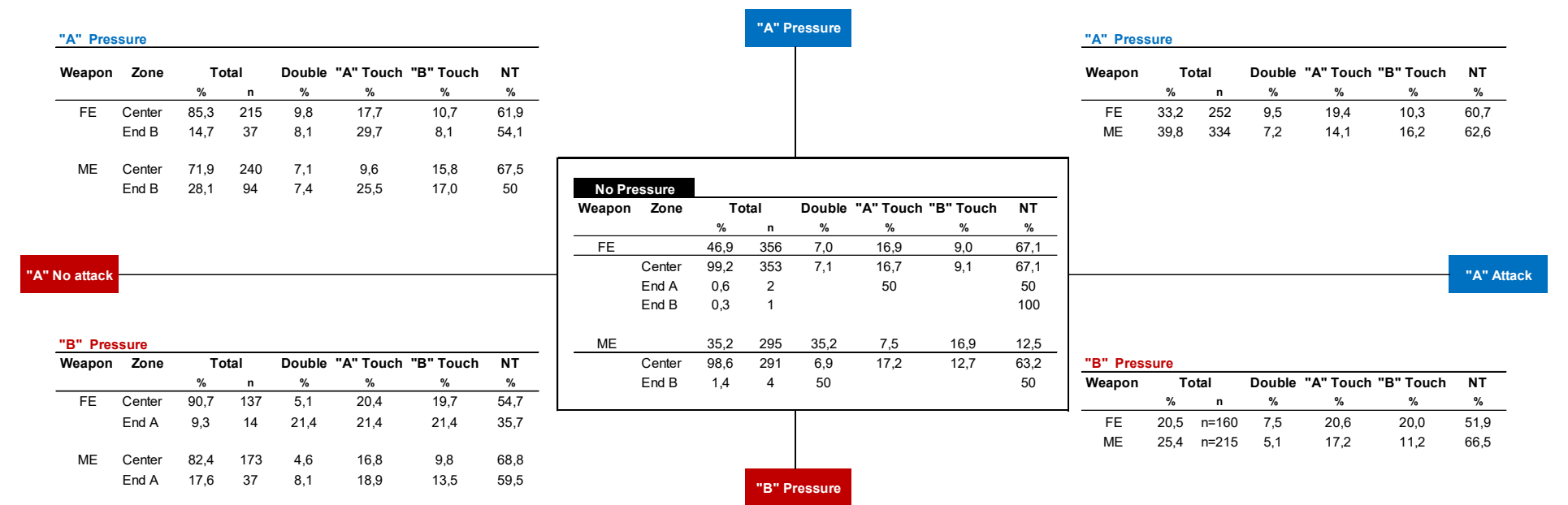
- 
- A non-participant observation
 - Design: nomothetic, punctual & multi-dimensional design (Anguera, 2011)
 - Sample: 15 male épée (ME) and 15 female épée (FE) combats (n=32)
 - World Championships 2014 -
 - Observational instrument: ESGRIMOBBS (Tarragó, 2015)
 - Recording instrument: Lince (Soto, 2019)
 - The fencer who made the first attack is "A" and his rival "B"
 - Parameters analysed:
 - "A" pressure (Pres_A), "B" pressure (Pres_B) or not obvious pressure (N_Pres)
 - The piste zones: (End_A & End_B) are 2m's at each end, and the rest is the centre (Central)
 - The effectiveness is determined as A_Touch, B_Touch, Double or don't touch
 - The differences in the distribution were checked with chi-square

RESULTS AND DISCUSSION



- 1598 actions were analysed
- 36.7% were Pres_A, and 22.6% were Pres_B, while 40.7% were N_Pres
- There is no relationship between pressure and effectiveness (n.s.) in total records





"A" Pressure

Weapon	Zone	Total		Double	"A" Touch	"B" Touch	NT
		%	n	%	%	%	%
FE	Center	85,3	215	9,8	17,7	10,7	61,9
	End B	14,7	37	8,1	29,7	8,1	54,1
ME	Center	71,9	240	7,1	9,6	15,8	67,5
	End B	28,1	94	7,4	25,5	17,0	50

"A" Pressure

"A" Pressure

Weapon	Total		Double	"A" Touch	"B" Touch	NT
	%	n	%	%	%	%
FE	33,2	252	9,5	19,4	10,3	60,7
ME	39,8	334	7,2	14,1	16,2	62,6

"A" No attack

"B" Pressure

Weapon	Zone	Total		Double	"A" Touch	"B" Touch	NT
		%	n	%	%	%	%
FE	Center	90,7	137	5,1	20,4	19,7	54,7
	End A	9,3	14	21,4	21,4	21,4	35,7
ME	Center	82,4	173	4,6	16,8	9,8	68,8
	End A	17,6	37	8,1	18,9	13,5	59,5

No Pressure

Weapon	Zone	Total		Double	"A" Touch	"B" Touch	NT
		%	n	%	%	%	%
FE		46,9	356	7,0	16,9	9,0	67,1
	Center	99,2	353	7,1	16,7	9,1	67,1
	End A	0,6	2		50		50
	End B	0,3	1				100
ME		35,2	295	35,2	7,5	16,9	12,5
	Center	98,6	291	6,9	17,2	12,7	63,2
	End B	1,4	4	50			50

"B" Pressure

"B" Pressure

Weapon	Total		Double	"A" Touch	"B" Touch	NT
	%	n	%	%	%	%
FE	20,5	n=160	7,5	20,6	20,0	51,9
ME	25,4	n=215	5,1	17,2	11,2	66,5

"A" Attack

In FE (n=759)

- Pres_A achieves in 19.4% A_Touch, 10.3% B_Touch and 9.5% Double
- Pres_B gets 20.6% A_Touch, 20.0% B_Touch and 7.5% Double
- With N_Pres you get 16.9% A_Touch, 9.0% B_Touch and 7.0% Double (p=.008)



"A" Pressure

Weapon	Zone	Total		Double	"A" Touch	"B" Touch	NT
		%	n	%	%	%	%
FE	Center	85,3	215	9,8	17,7	10,7	61,9
	End B	14,7	37	8,1	29,7	8,1	54,1
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"A" Attack

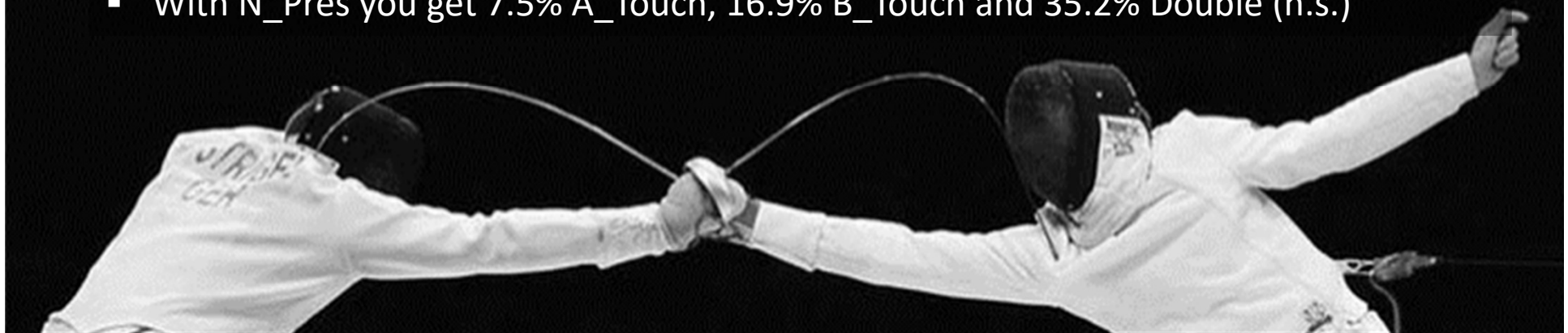
"B" Pressure

Weapon	Zone	Total		Double	"A" Touch	"B" Touch	NT
		%	n	%	%	%	%
FE	Center	20,5	n=160	7,5	20,6	20,0	51,9
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"B" Pressure

In ME (n=839)

- Pres_A achieves in 14.1% A_Touch, in 16.2% B_Touch and in 7.2% Double
- Pres_B achieves 17.2% A_Touch, 11.2% B_Touch and 5.1% Double
- With N_Pres you get 7.5% A_Touch, 16.9% B_Touch and 35.2% Double (n.s.)



"A" Pressure

Weapon	Zone	Total		Double	"A" Touch	"B" Touch	NT
		%	n		%	%	%
FE	Center	85,3	215	9,8	17,7	10,7	61,9
	End B	14,7	37	8,1	29,7	8,1	54,1
ME	Center	71,9	240	7,1	9,6	15,8	67,5
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"A" Attack

"B" Pressure

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ME	25,4	n=215	5,1	17,2	11,2	66,5

"B" Pressure

In ME (n=839)

- In Pres_B, "A" manages to touch more than "B" both in the End_A (18.9% vs. 13.5%) and in the centre (16.8% vs. 9.8%)(n.s.)
- The best options for B_Touch are with Pres_A in the central zone (15.8% vs. 9.6%) (p<.001)



"A" Pressure

Weapon	Zone	Total		Double	"A" Touch	"B" Touch	NT
		%	n	%	%	%	%
FE	Center	85,3	215	9,8	17,7	10,7	61,9
	End B	14,7	37	8,1	29,7	8,1	54,1
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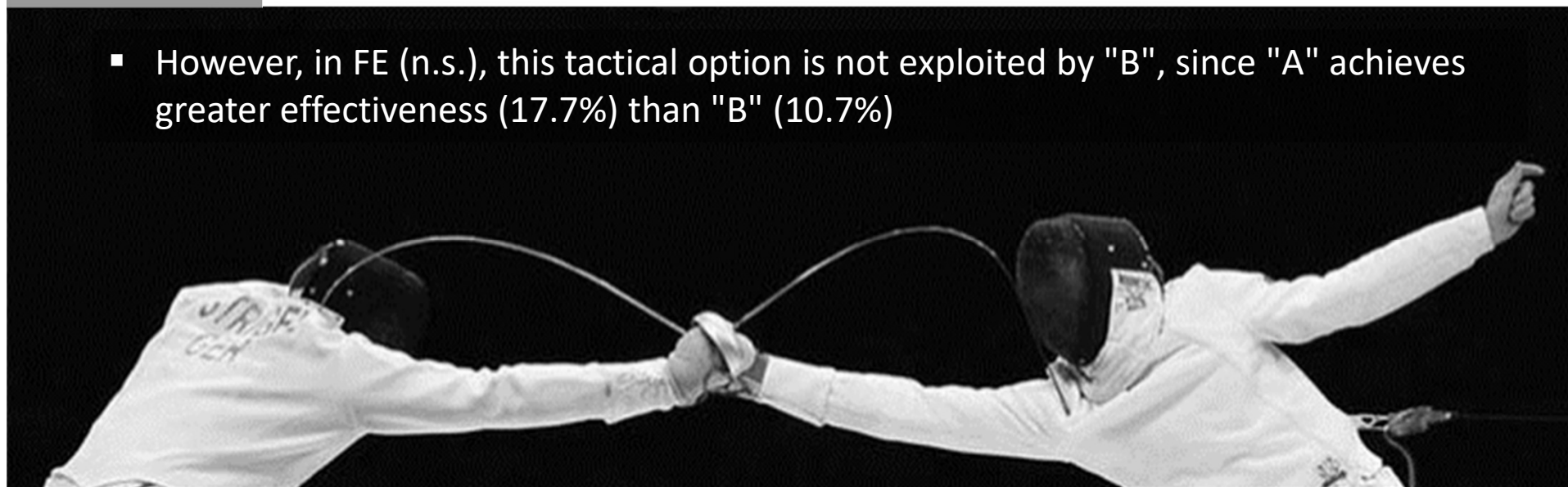
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"A" Attack

In FE (n=759)

- However, in FE (n.s.), this tactical option is not exploited by "B", since "A" achieves greater effectiveness (17.7%) than "B" (10.7%)



"A" Pressure

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		%	n	%	%	%	%
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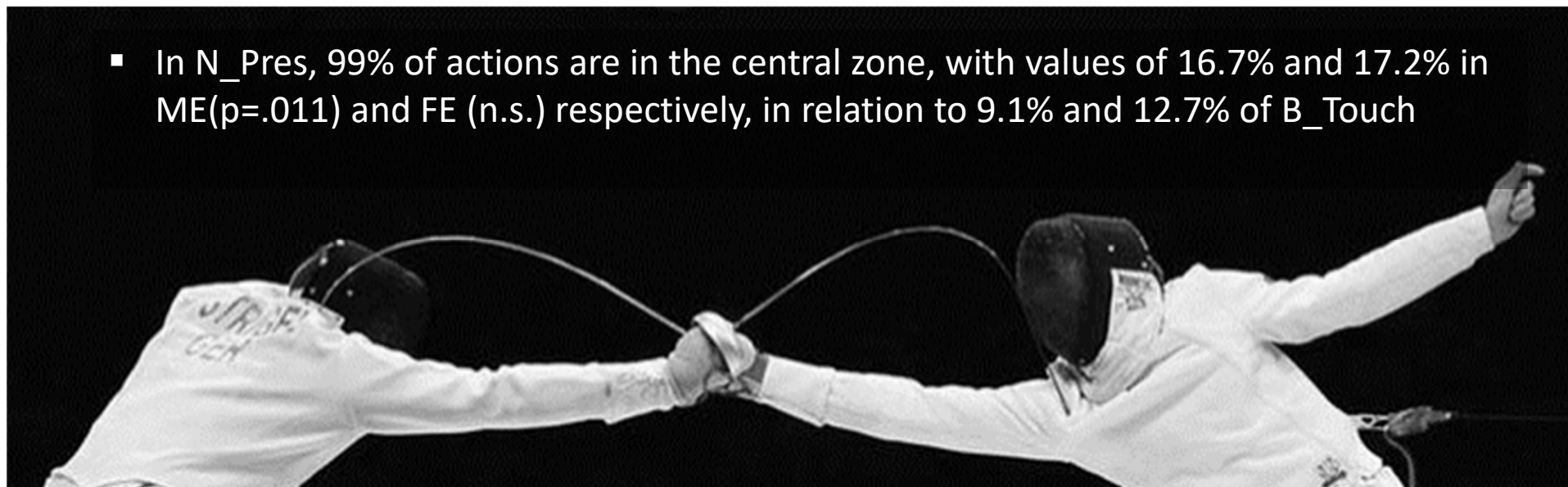
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"A" Attack

- In N_Pres, 99% of actions are in the central zone, with values of 16.7% and 17.2% in ME(p=.011) and FE (n.s.) respectively, in relation to 9.1% and 12.7% of B_Touch



"A" Pressure

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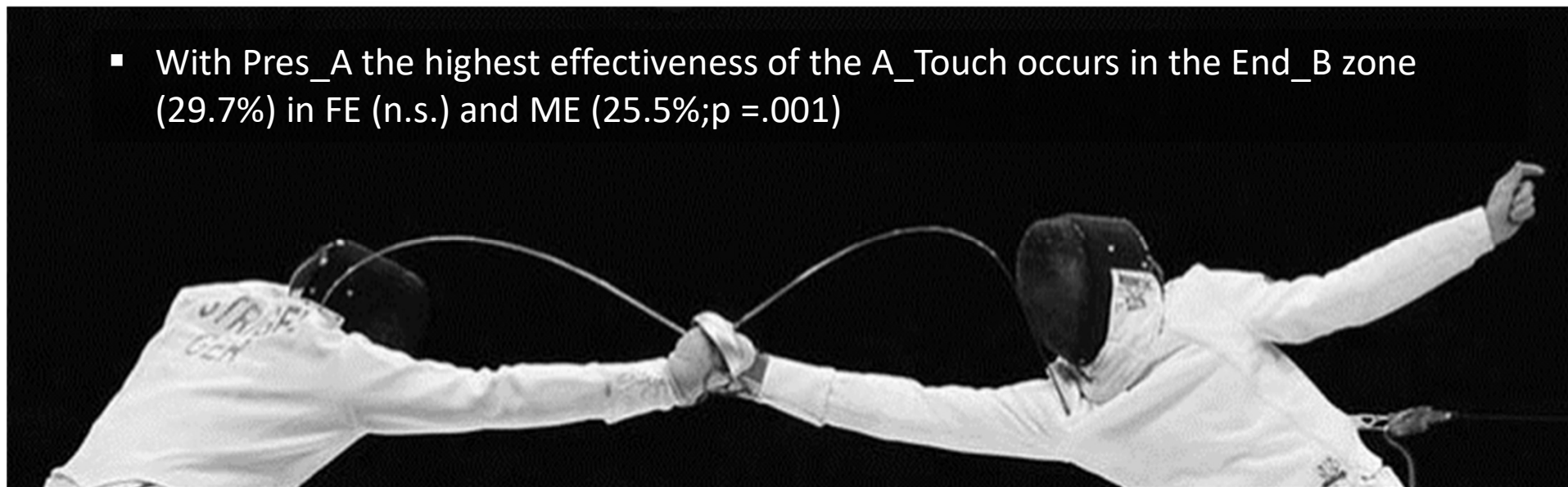
"B" Pressure

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ME	25,4	n=215	5,1	17,2	11,2	66,5

"A" Attack

- With Pres_A the highest effectiveness of the A_Touch occurs in the End_B zone (29.7%) in FE (n.s.) and ME (25.5%;p =.001)

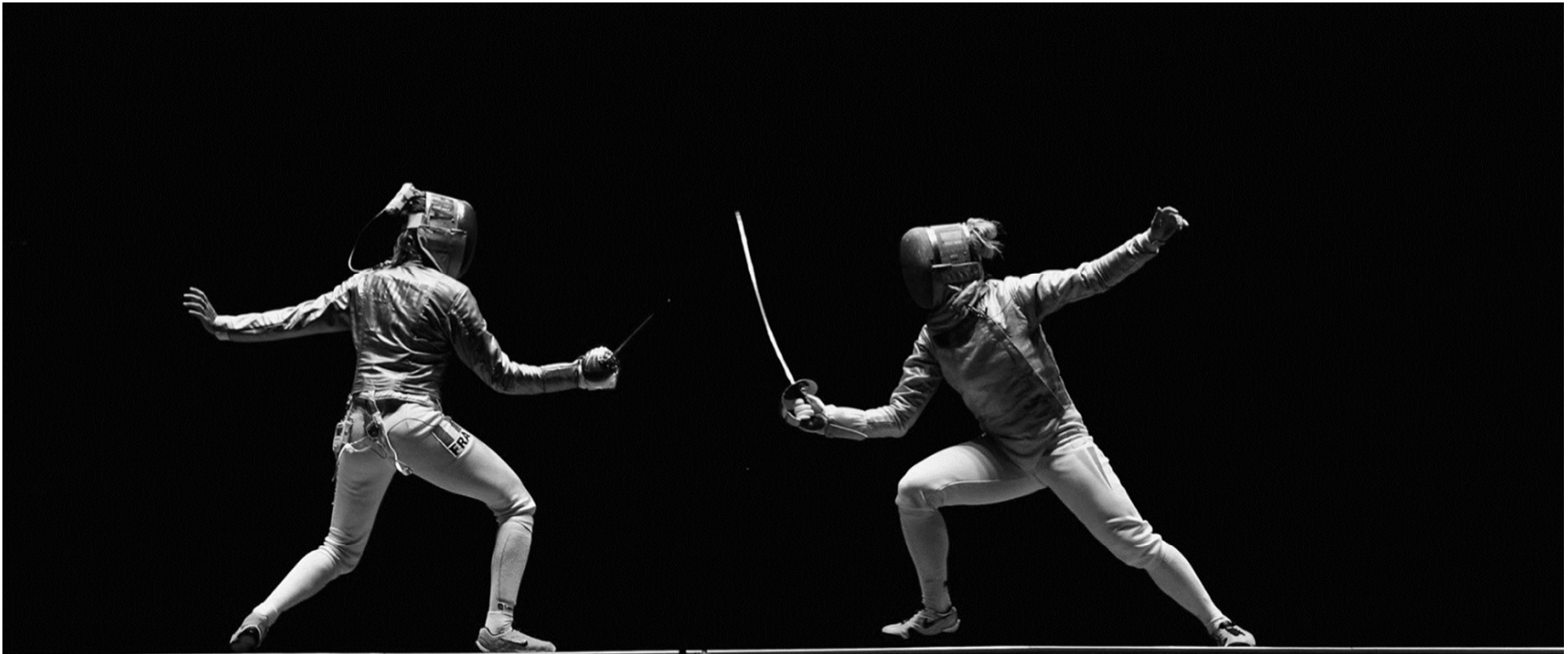


- Delhomme (2016), defines 4 tactical profiles according to the fencer who makes the decision to attack and apply pressure. Individual study is very appropriate. In our case we have collectively valued the 16 best in the world, which gives us more global information but less precision individually



CONCLUSIONS





- The combination of pressure factors and piste area determine the effectiveness
- The most effective situation for the attacking épée fencer is to attack after pressuring his opponent at the end of his opponent's piste

GRANTS

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- Spanish government
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- Catalanian government
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