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Mothers and daughters: A hidden picture in gambling research

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Gambling in adolescents

- **Adolescents**
 - **60–80%** reported participation in some form of gambling (Calado et al., 2017)
 - They are at a heightened risk of problem gambling due to their **cognitive immaturity** and being more susceptible to **peer influences and advertisements** (Emond & Griffiths, 2020)
 - **Problem gambling** in the adolescent population ranges **from 0.2 to 12.3%** (Calado et al., 2017)

Gambling in adolescents

○ Adolescents

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○ Female adolescents

- Among adolescent gamblers, 73.5% were boys and **26.5% were girls** (Zhai et al., 2020, USA)
- Considering only female adolescents:
 - **67%** were **past-year gamblers**; **7%** were **at-risk** and **3%** **problem gamblers** (Donati et al., 2020, Italy)
 - **11%** were found to have **gambling problems** (Macía et al., 2023, Spain)

Girls' gambling features and related factors

- **Non-strategic gambling activities**, such as lotto and instant scratch-cards (e.g., Buckle et al., 2013; Desai et al., 2005; Donati et al., 2013; Ellenbogen et al., 2017; Huic et al., 2017; Tani et al., 2021; Weidberg et al., 2018);
- **Gambling with family members** (Donati et al., 2013; Donati et al., 2023; Gupta & Derevensky, 1998);
- First gambling activity at an **early age** (Donati et al., 2020; Kaminer et al., 2002);
- **Specific related at-risk factors:**
 - Individual: Erroneous perception of probability and illusion of control (Huic et al., 2017), superstitious thinking (Donati et al., 2013)
 - Environmental: **parental gambling behavior** (Donati et al., 2013)

Parental gambling behaviour & adolescents' gambling

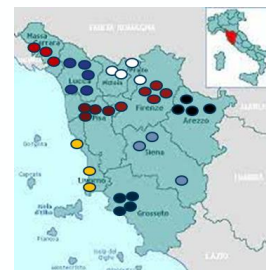
- Parental gambling involvement has been associated with increased prevalence of gambling and gambling-related problems among adolescents (Felsher et al., 2003; Donati et al., 2013; 2023)
 - Adolescents report to gamble with parents and other family members (Donati et al., 2013; Donati et al., 2023; Gupta & Derevensky, 1998)
 - Parents introduce and share gambling activities (e.g., buying scratch cards or betting with them on sport events) (Shead et al., 2011; Zhai et al., 2021)



Little is know on how **mothers' gambling is related to their daughters gambling behavior** (Emond et al., 2020; Forrest & McHale, 2020)

Aim

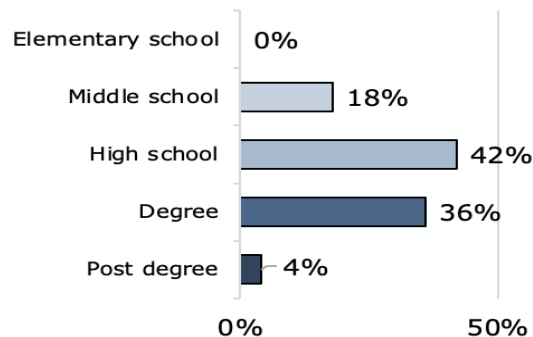
- To explore gambling behavior among **female adolescents and their mothers**
 - Analyzing **gambling activities, gambling frequency, modality and versatility**
 - Measuring **the relationship** between mothers' gambling behavior and their daughters' gambling behavior
 - *Investigating the **specificities of daughters compare to sons***



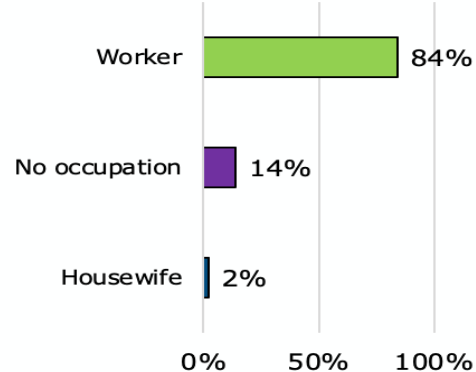
Participants

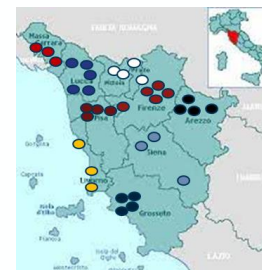
$n = 480$ mothers ($M_{age} = 47.16$, $DS = 5.12$; range: 33.00 – 64.00) of **480 adolescents** involving the PRIZE preventive intervention in Tuscany (Italy)

Study Qualification



Occupational Status



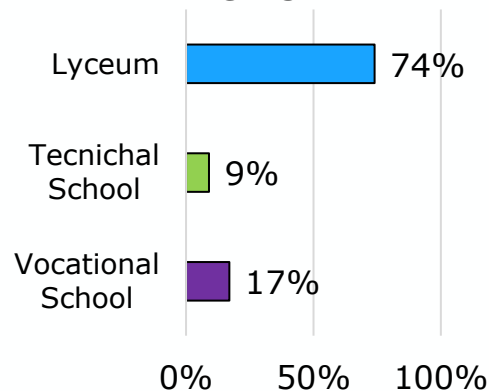


Participants

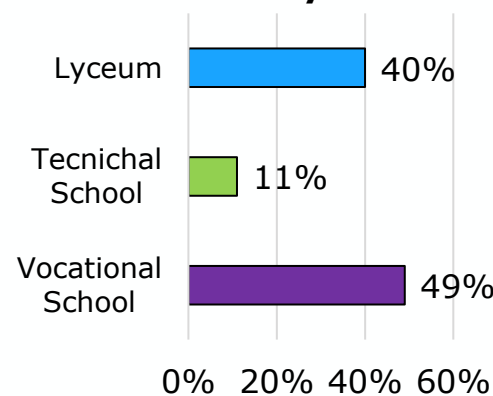
- **251 girls** ($M_{age} = 15.53$, $DS = .60$; range: 14.67 – 19.17)
- **229 boys** ($M_{age} = 15.54$, $DS = .60$; range: 14.58 – 18.58)



Types of school
Girls



Type of school
Boys



Measures & Procedure

Mothers

- Online survey
 - *Socio-demographic questions*
 - *Gambling Behavior Scale – For Parents* (Donati et al., 2023)
 - Gambling frequency
 - Gambling activities
 - Gambling modality
 - Gambling versatility
 - Gambling partner

Adolescents

- Online survey during school hours
 - *Socio-demographic questions*
 - *Gambling Behavior Scale – For Adolescents* (GBS-A; Primi et al., 2015)
 - Section A:
 - Gambling frequency
 - Gambling activities
 - Gambling modality
 - Gambling versatility
 - Gambling partner



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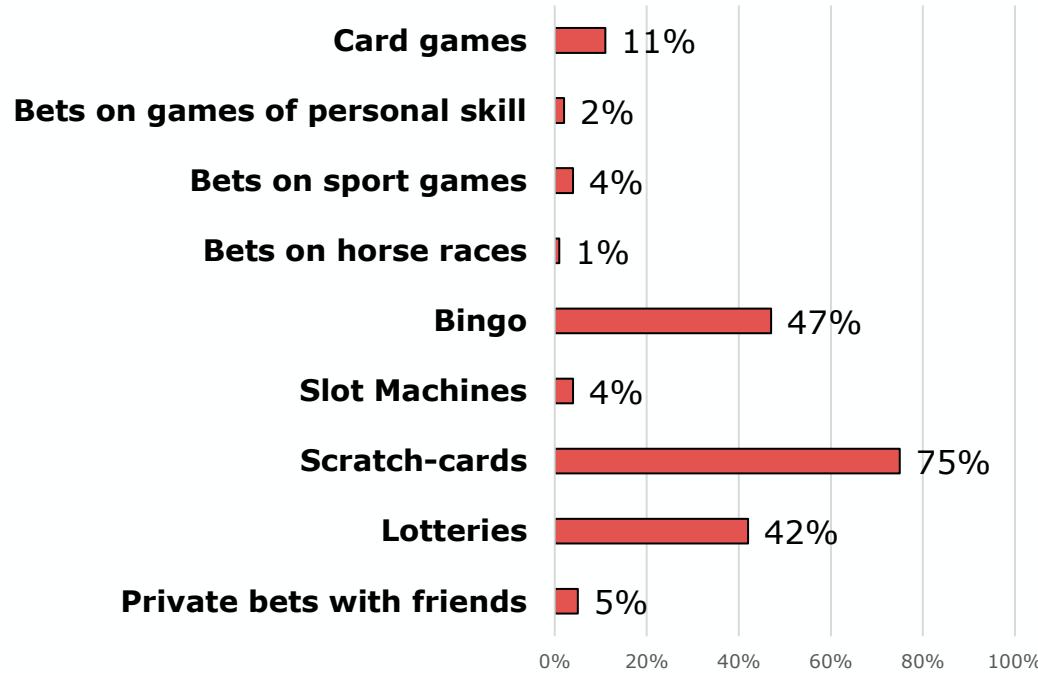
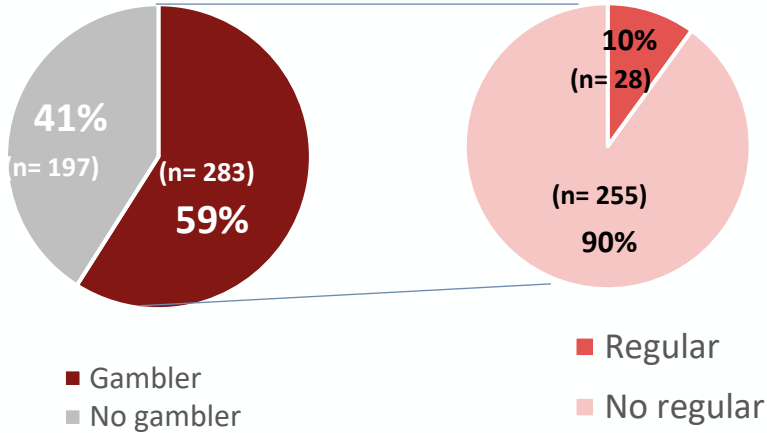
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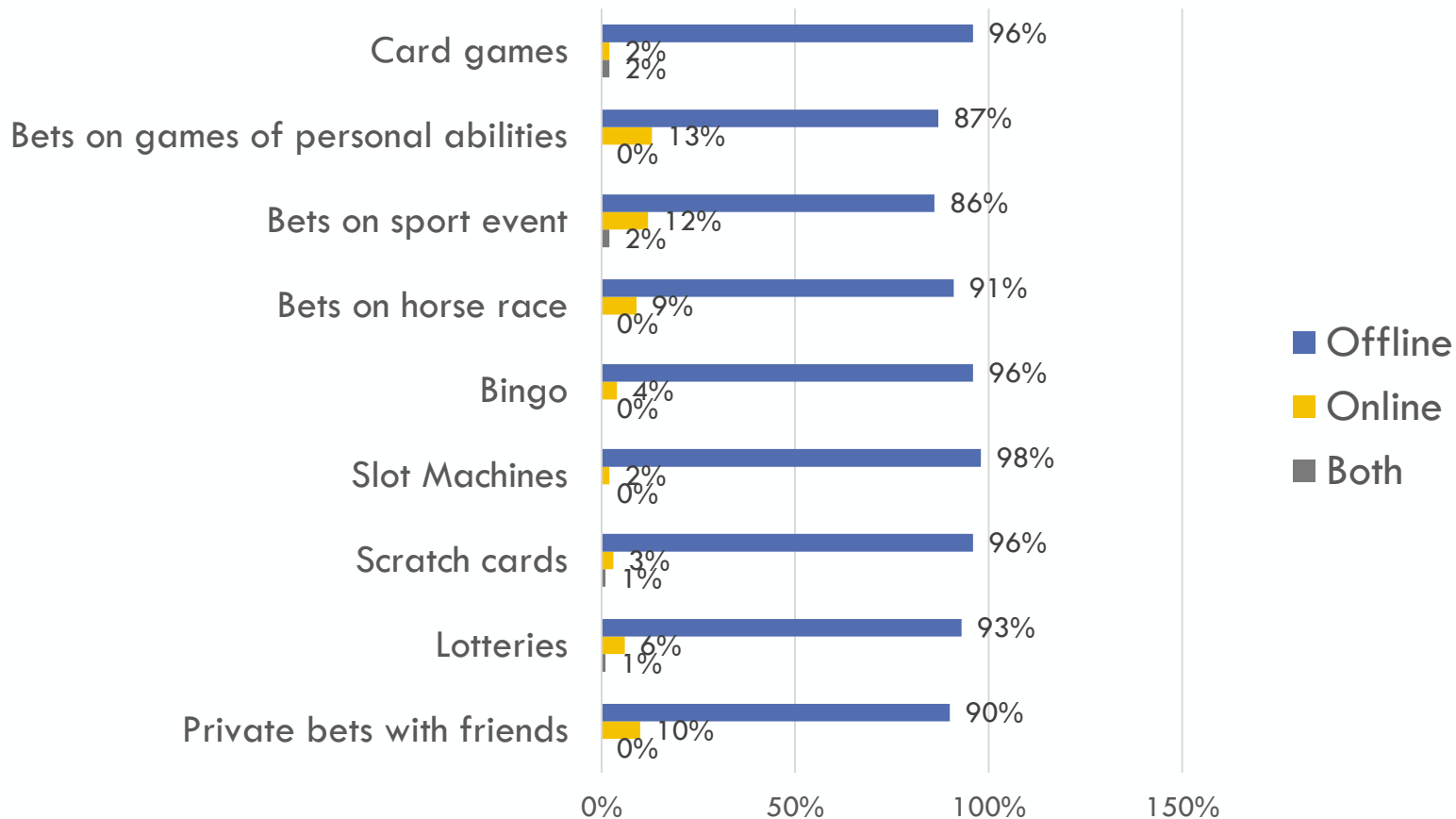
#Results

Mothers' gambling behavior

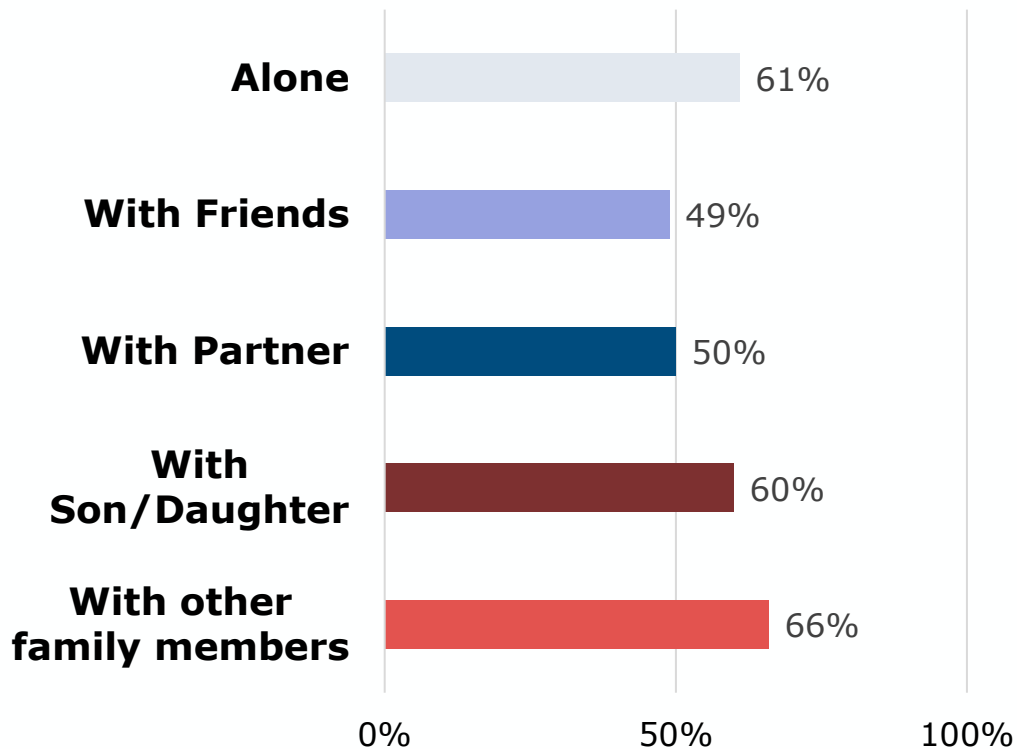


<i>Versatility</i>	
<i>M (SD)</i>	<i>range</i>
2.01 (1.02)	1.00 - 7.00

Mothers' gambling modalities

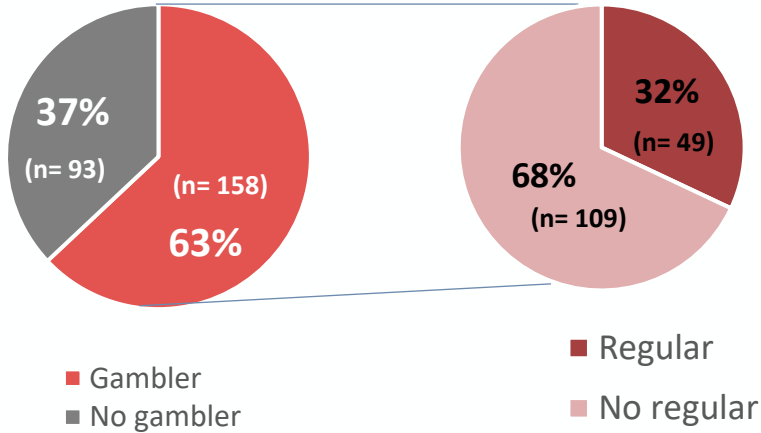


Mothers' gambling partners

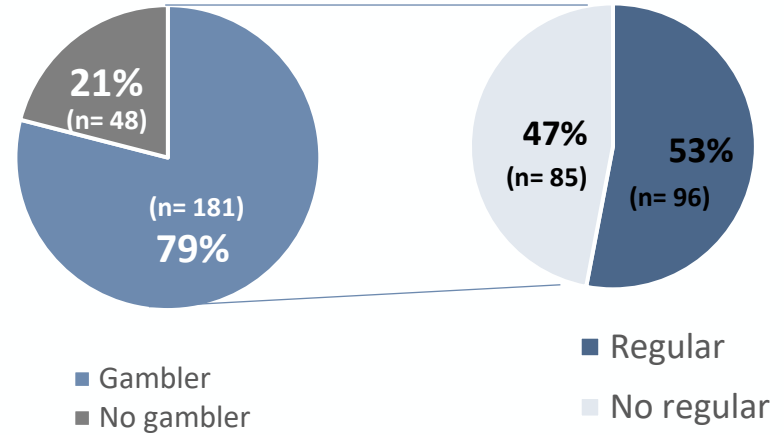


Adolescents' gambling behavior

Daughters

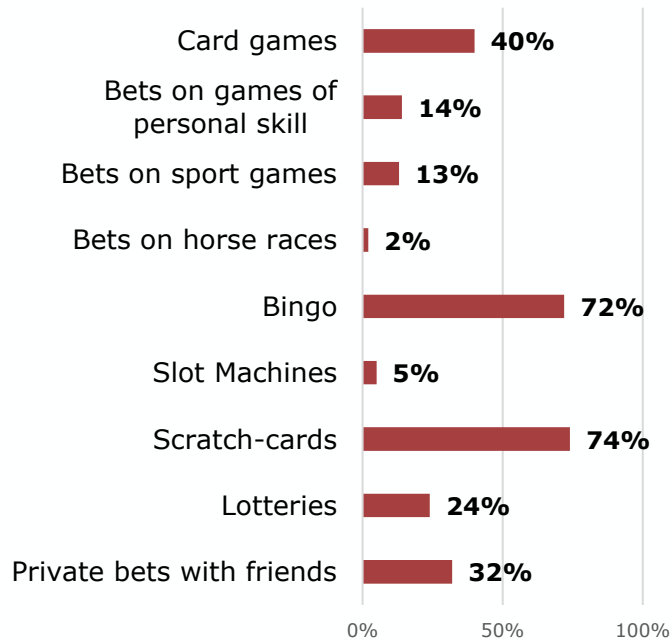


Sons

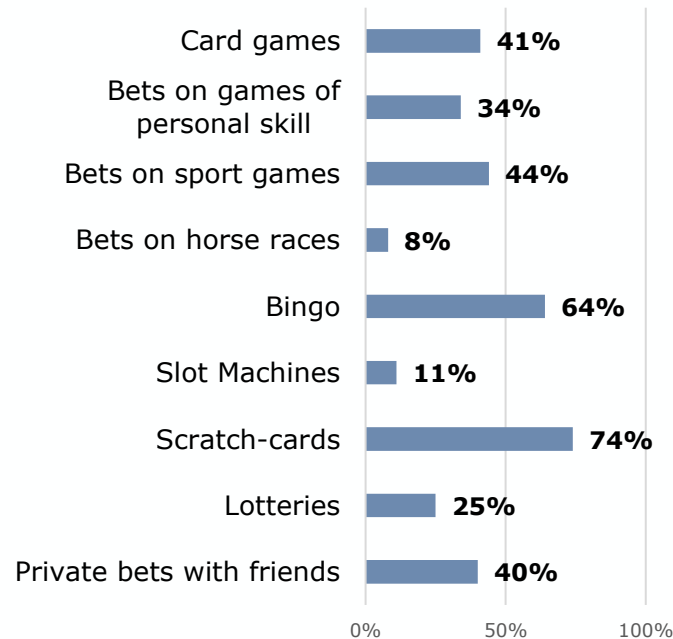


Gambling activities

Daughters



Sons

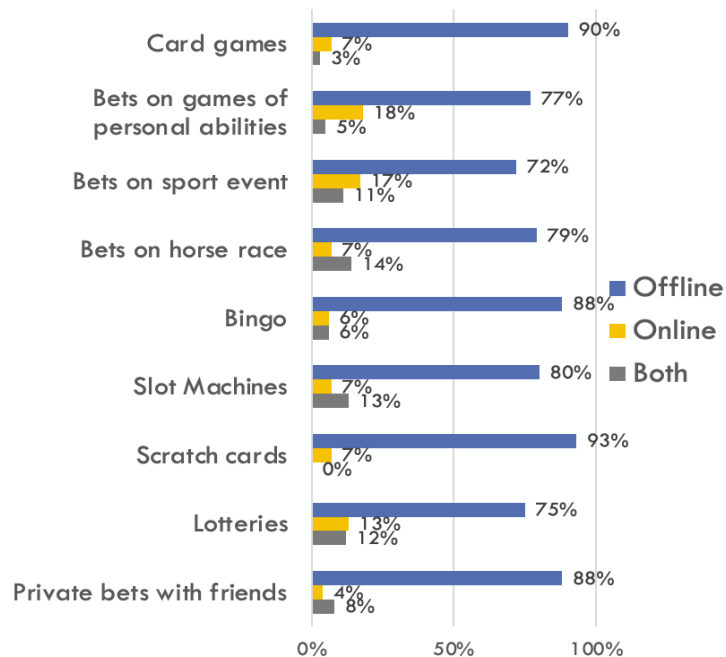


<i>Versatility</i>	
M (SD)	<i>range</i>
2.80 (1.56)	1.00 - 7.00

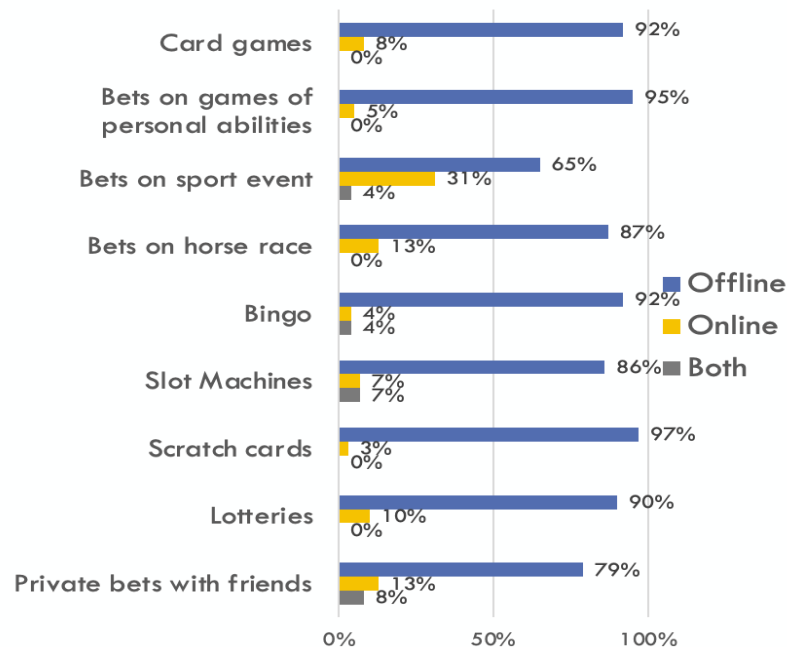
<i>Versatility</i>	
M (SD)	<i>Range</i>
3.40 (2.14)	1.00 - 9.00

Gambling modalities

Daughters



Sons

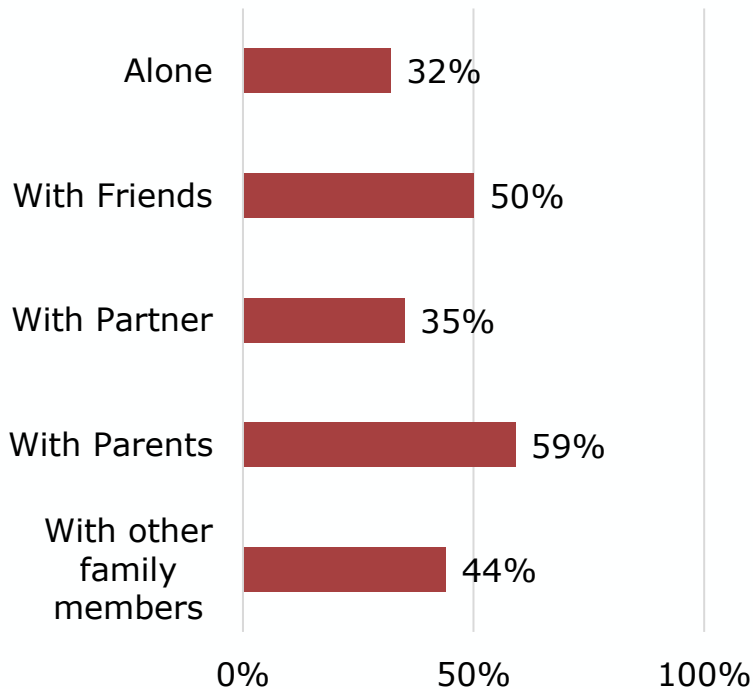




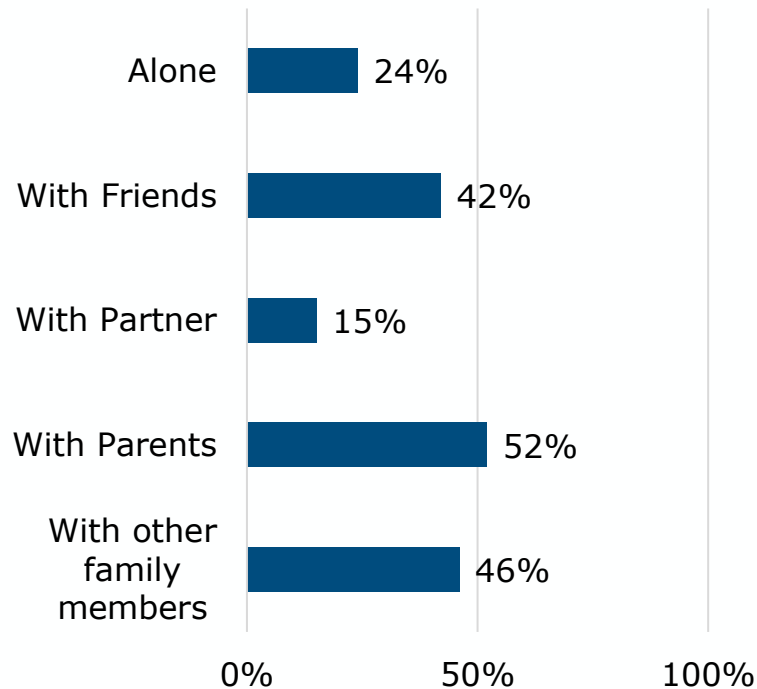
Gambling partners



Daughters

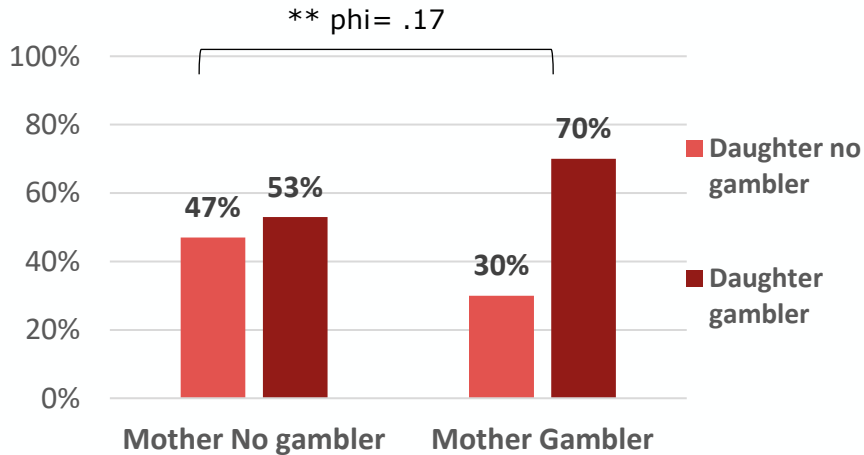


Sons



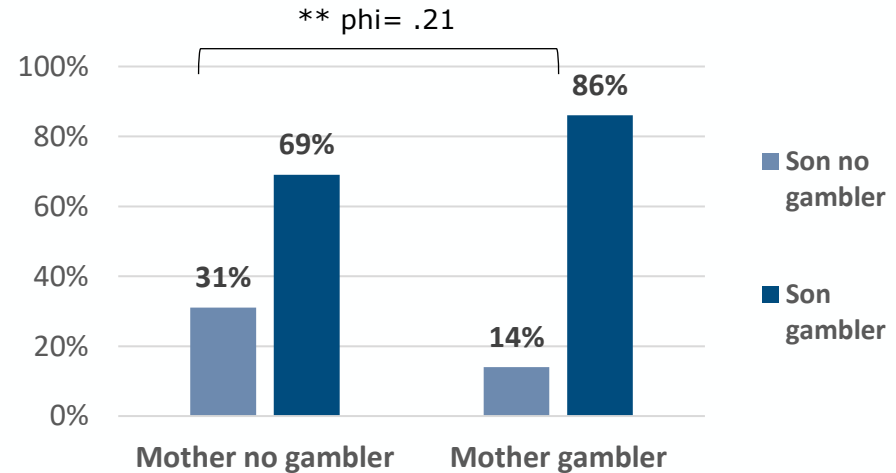
Association of Gambling prevalence among mothers and daughters

Daughters



$\chi^2 (1): 6.69; p < .01$

Sons



$\chi^2 (1): 9.11; p < .01$

Relationship between mothers' gambling behavior among daughters' gambling behavior

Daughters

	1	2	3	4
1. Daughter's gambling frequency	-			
2. Daughter's gambling versatility	.96***	-		
3. Mother's gambling frequency	.21**	.23**	-	
4. Mother's gambling versatility	.28***	.32***	.88***	-
M (SD)	2.14 (2.40)	1.78 (1.84)	1.51 (1.86)	1.18 (1.27)

*** $p < .001$

** $p < .01$

Sons

	1	2	3	4
1. Son's gambling frequency	-			
2. Son's gambling versatility	.94***	-		
3. Mother's gambling frequency	.19**	.23**	-	
4. Mother's gambling versatility	.18**	.25***	.92***	-
M (SD)	3.99 (4.10)	2.70 (2.35)	1.51 (1.68)	1.20 (1.26)

Discussion

- Women are involved in gambling activities
 - The most practiced activities were Scratch cards, Bingo & Lotteries
 - They declare to gamble also with their offsprings
- Daughters declared to gamble with parents, but there are some differences in gambling behaviours:
 - daughters are less involved in lotteries and more in card games and bets in sport
 - daughters less prefer gaming alone comparing to the mothers
 - daughters are more involved in gaming online
- Offsprings of gambler mothers are more involved in gambling activities compared to offsprings of non-gambler mothers
- Mothers' gambling frequency and versatility are in relation with their offsprings' gambling frequency and versatility, higher in daughters

Conclusion

- To involve mothers in gambling prevention program
 - Specific educational interventions
- To conduct training courses with parents and teachers to make them aware that even girls gamble and can become at-risk/problem gamblers
- To promote a gender specific approach in the research and in the prevention program



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Thanks!

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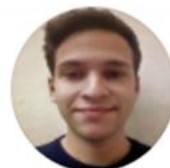
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Santisi



Massimiliano
Padovani



Francesco
Sanson



Maria Anna
Donati



Elisa
Borace



Costanza
Gori