

Internal Difficulties and Social Cognition in Women With Asperger Syndrom : Comparative Study With Gifted and Typical Women Population.

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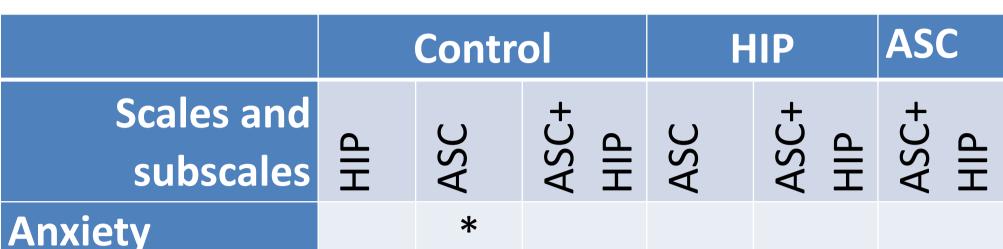
BACKGROUND

More and more studies point out a **female subdiagnosis in Autism Spectrum Condition** (ASC). These women would show less outsourced behavior than men but similar internal difficulties. However, in clinical practice, this data seems to be forgotten and delays or misdiagnosis can be made. This can have **serious consequences** like anxiety, depression, suicide, sexual abuse and harassment.

> Abuse and Harassment

RESULTS

Women with ASC have more depressive disorders than Gifted women and more anxiety than Typical. **HIP seems to protect women with ASC of anxiety.** Attention to details tends to be more important for them than to the other groups. **There's no significative differences between ASC and ASC+HIP** groups.





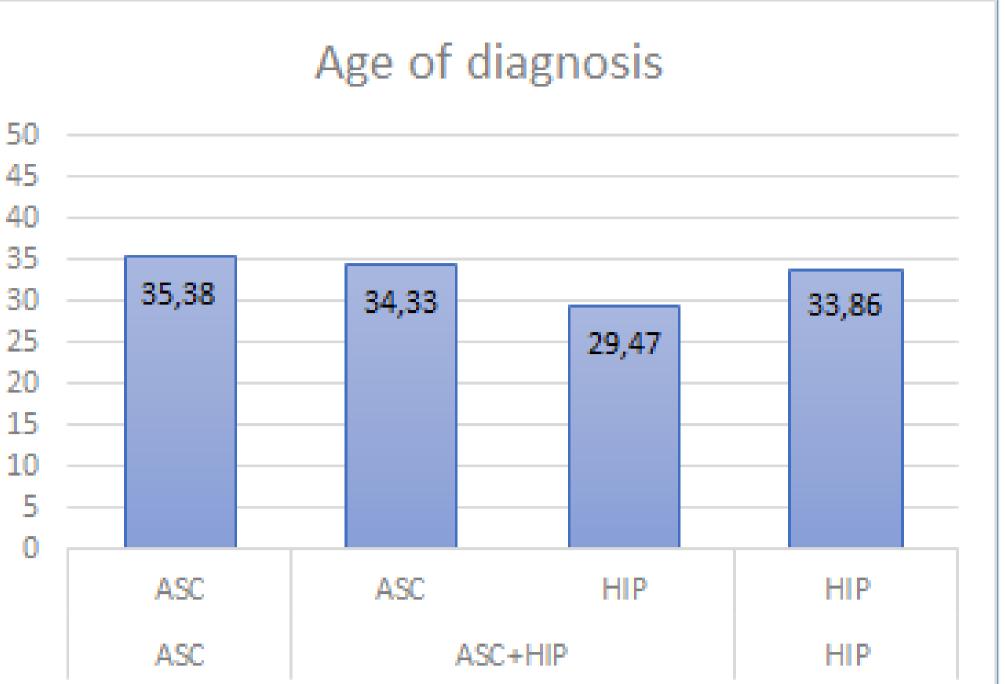
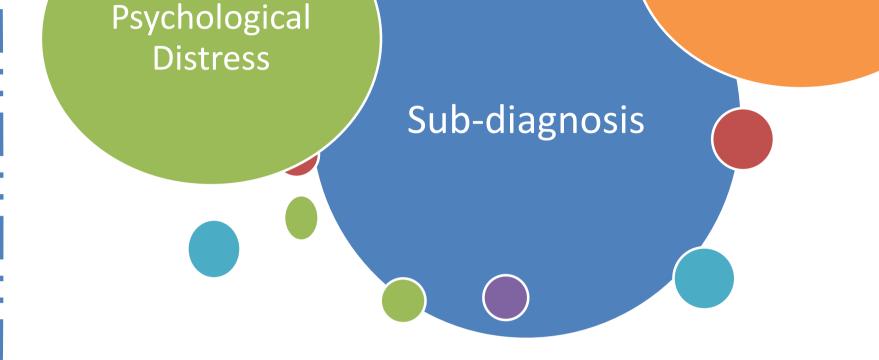


Figure 1. Age of screening of HIP or diagnosis of ASC between groups.



It also seems that **High Intellectual Potential (HIP) could increase the masking phenomenon** and complicate the diagnosis of ASC for the women who have both.

OBJECTIVE

The current study aims to **explore the invisible difficulties of women with ASC** in parallel with HIP and typical women. We distinguish women with ASC from those with the dual specificity of ASC and HIP for consider **if HIP have an impact on the diagnosis** or potential peculiarities. We wanted to objectively show the consequences of internal **difficulties of women in relation with sensorial et social impairing.**

AllAley					
Depression			**	*	
Sensorimotor	* * *	* * *	***	* * *	
AQ	* * *	* * *	***	* * *	
Social Hability	* * *	* * *	* * *	* * *	
Attention Switching	* * *	* * *	***	* * *	
Attention to details		* * *		*	
Communication	* * *	* * *	* * *	* * *	
Imagination	* * *	* * *	* * *	* * *	
ERF-CS	* * *	* * *	* * *	* * *	
Emotional Processes	* * *	* *	* * *	* * *	
TOM	* * *	* * *	* * *	* * *	
Attributional Style	* * *	* * *	* * *	* * *	
Social	* * *	* * *	* * *	* * *	
Inconvenience	* * *	* * *	* * *	* * *	
Frequency	***	* * *	***	* * *	

Analysis of the average age of diagnosis of ASC shows no significant differences between ASC and ASC and HIP groups. No significant difference is found too between the age of screening of HIP for ASC and HIP and HIP groups. Women with dual specificity were diagnose with HIP 4 years earlier than women with HIP only. On the 43 women with dual specificities, only three of them were diagnosed with autism before beeing screened HIP, the other were diagnose with ASC at the same times or few years after the screening of HIP.

DISCUSSION We could here consider the correlation between autistic traits, social difficulties and sensory specificities.

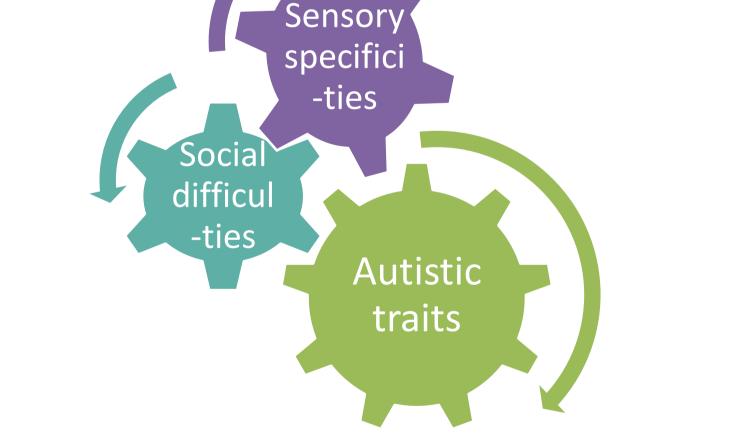
METHODS

Tests were completed online by 64 Typical women, 44 HIP women and 99 women with AS (56 AS and 43 AS and HIP).

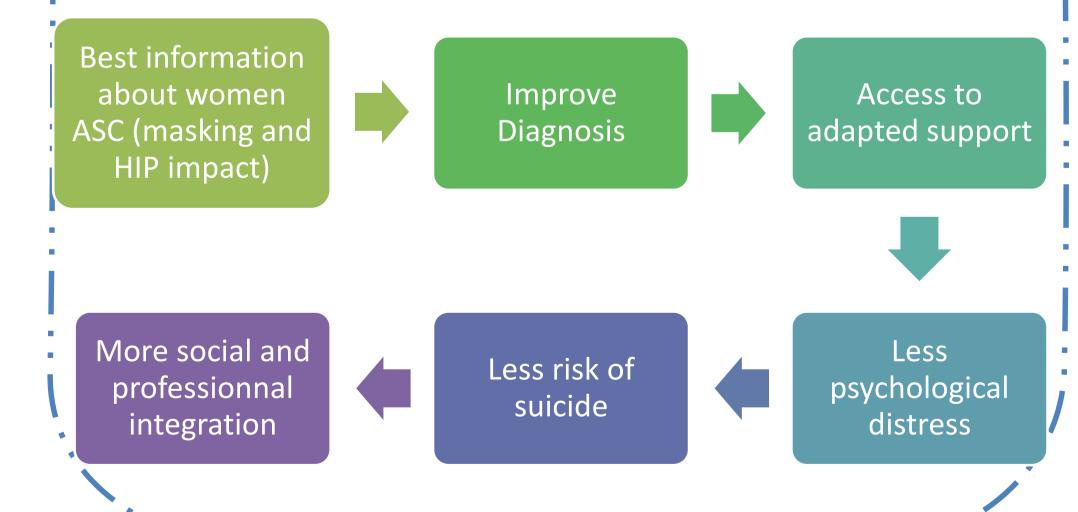
- <u>Hospital Anxiety and Depression Scale</u> (Zigmond and Snaith, 1983)
- <u>Sensorimotor subscale</u> of RAADS-R (Ritvo and al., 2008),
- <u>Autism Quotient (</u>AQ) (Baron-Cohen and al., 2001)
- <u>Functional Repercussion Scale of Social</u>
 <u>Cognition</u> (ERF-CS) (Peyroux et Gaudelus, 2014).

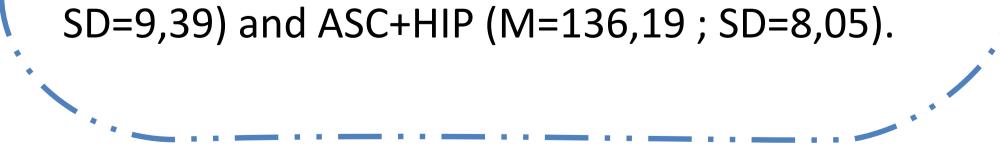
Participants were aged between 18 and 75 years old (M=37,22 ; SD=10,99) without significative difference between groups. IQ means have no significative difference between HIP (M=137,02 ; **Table 1**. Significant differences by scales and subscales betweengroups (Games Howell Test)*p < .05*p < .01

Spearman Test on all the population shows a **significant correlation between AQ and ERF-CS** (r = .86, p<.001) and **moderately significant between AQ and sensory-motor subscale** (r = .70, p<.001) as well as between this subscale and ERF-CS (r = .66, p<.001). We found too a **moderatly significant correlation between sensory-motor subscale and daily inconvenience** (r = .64, p<.001) and between this subscale **and the frequency of difficulties** (r = .67, p<.001) create by lack of social cognition.



Besides, we show that high potential could delays the diagnosis of ASC. A possible explanation is that HIP women and professionals attribute their specificities to HIP and don't consider ASC hypothesis before many years.







References

Baker, A. R. Invisible at the end of the spectrum : shadows, residues, "BAP" and the female aspergers experience.; In World Autism Congress, 2002.

Bargiela, S., R. Steward, et W. Mandy. The Experiences of Late-Diagnosed Women with Autism Spectrum Conditions: An Investigation of the Female Autism Phenotype. Journal of Autism and Developmental Disorders 46, nº 10. 3281-94.

Begeer, S., D. Mandell, B. Wijnker-Holmes, S. Venderbosch, D. Rem, F. Stekelenburg, et H. M. Koot. Sex Differences in the Timing of Identification Among Children and Adults with Autism Spectrum Disorders. Journal of Autism and Developmental Disorders 43, n° 5 (mai 2013): 1151-56.

Dworzynski, K., A. Ronald, P. Bolton, et F. Happé. How Different Are Girls and Boys Above and Below the Diagnostic Threshold for Autism Spectrum Disorders? Journal of the American Academy of Child & Adolescent Psychiatry 51, n° 8 (août 2012): 788-97.

Gould, J..Towards understanding the under-recognition of girls and women on the autism spectrum. Autism 21, n° 6 (2017): 703–705.

Kreiser, N. L., et S. W. White. ASD in Females: Are We Overstating the Gender Difference in Diagnosis? Clinical Child and Family Psychology Review 17, nº 1 (juillet 2013): 67-84.

Lai, M-C., et S. Baron-Cohen. Identifying the Lost Generation of Adults with Autism Spectrum Conditions. The Lancet Psychiatry 2, nº 11 (novembre 2015): 1013-27.

Lai, M-C., M. V. Lombardo, A. NV Ruigrok, B. Chakrabarti, B. Auyeung, P. Szatmari, F. Happé, et S. Baron-Cohen. Quantifying and exploring camouflaging in men and women with autism. Autism 21, nº 6 (2016): 690-702. Rynkiewicz, A., et I. Łucka. Autism spectrum disorder (ASD) in girls. Co-occurring psychopathology. Sex differences in clinical manifestation. *Psychiatria Polska*, 2015, 1-11.

Tierney, S., J. Burns, et E. Kilbey. Looking behind the Mask: Social Coping Strategies of Girls on the Autistic Spectrum. Research in Autism Spectrum Disorders 23 (mars 2016): 73-83.