

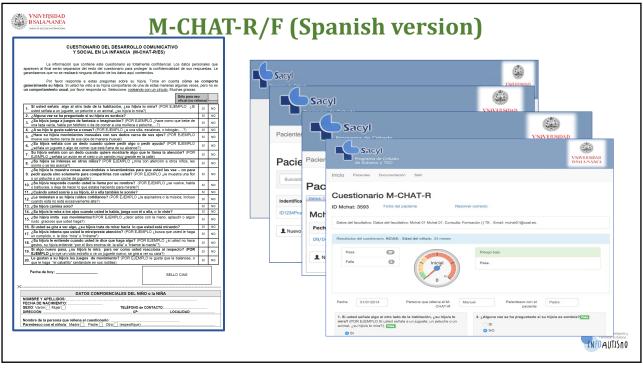
<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header>

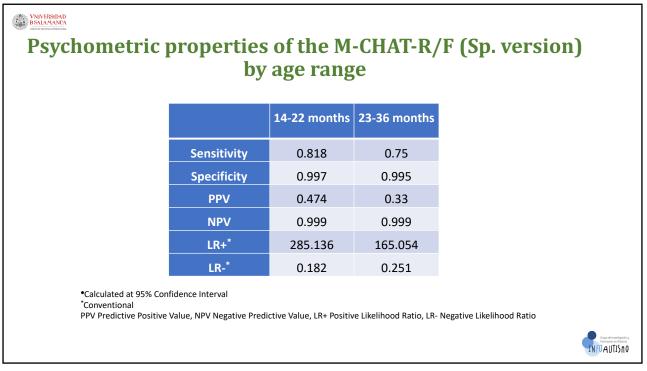




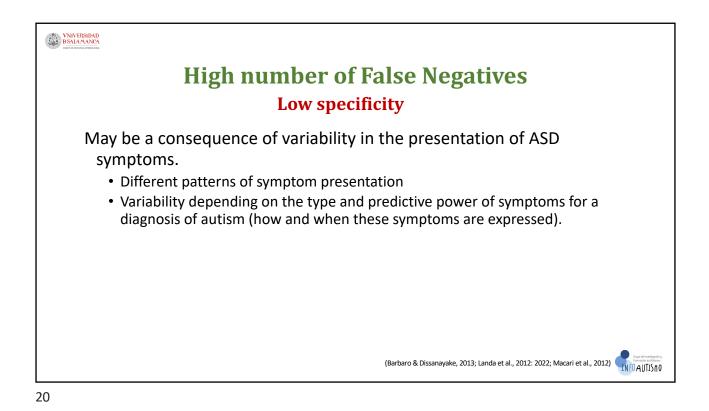


| VIVVERSIDAD <u>BSALA MANCA</u> where to also ensure | |
|--|--|
| The M-CHAT-R/F too | l (Spanish version) |
| Situated señala algo al otro tedo de la habitación, zeu hipóle lo min? (POR ELEMPLO 2/3) dire dire 2. Algunar veste na progratheo di su hipóle bo min?) ELEMPLO 2/3) dire dire 2. Algunar veste na progratheo di su hipóle bo min?) ELEMPLO 2/3) dire dire 4. Ob hipóle juega a juego de finatsia o ingelinadori (POR ELEMPLO 2/ano cono que beb de la sino una texa visita, hipole patrato a su hipóle con texa o patrico. dire dire 4. At na finale patra subiras e consta? (POR ELEMPLO 2/ano cono que beb de la sino que texa visita, himonimiento insusuate en a una nuñeco a patrico. dire dire dire 4. At na finale patra subiras e consta? (POR ELEMPLO 2/ano cono que beb de la sino que texa visita, himonimiento insusuate en con patrico na su hipole conta visita visita e su dire? (POR ELEMPLO di no que texa visita, himo de constade que ter que ta sino patrico na su hipole patra subiras e consta? (POR ELEMPLO di no que texa visita dire dire data conta dire dire data conta dire dire data conta dire dire dire dire dire dire dire dire | • 16-30 months |
| | Screening /ell-child visits) • A los 18 meses • A los 24 meses |
| "cuanche estito vesté accessionnels sub?" "cuanche estito vesté accessionnels sub?" [a. So bijola emira solo? [a. So bijola emira solo? [a. So bijola emira solo? [a. Solo bijola emira solo bijola emira solo bijola emira solo? [a. Solo bijola emira solo bi | |
| Table protoco gas usite hogon: S.S. sturies of gas are view, as all holos trate do minur hacks lo gas usedel estal minuedo? El so T. sciencifico, la fodo minor o minumo? El sobi do trate o minumo | Autism in Toddlers: Cross-Cultural tion in Spain |
| Fecha de hoy: | |
| DATOS CONFIDENCIALES DEL NIÑO o la NIÑA NOMBRE Y APELLIDOS: FECIA DE NACIMIENTO; SEDO Vanci, Mayel DIRCOMO: DIRCOMO: DIRCOMO: DIRCOMO: DIRCOMO: Parenteso con el níliola. Mado: Parenteso con el níliola. Mado: | ORIGINAL PAPER Spanish Cultural Validation of the Modified Checklist for Autism in Toddlers, Revised Maria Maganto ¹ 0- Ricardo Canal-Bedia ¹ 0- Aránzazu Hernández-Fabián ² - Álvaro Bejarano-Martin ¹ - Cira J. Fernández-Álvare ² - María Martínez-Velarte ³ - María V. Martín-Cilleros ¹ - Noelia Flores-Robaina ⁴ - |

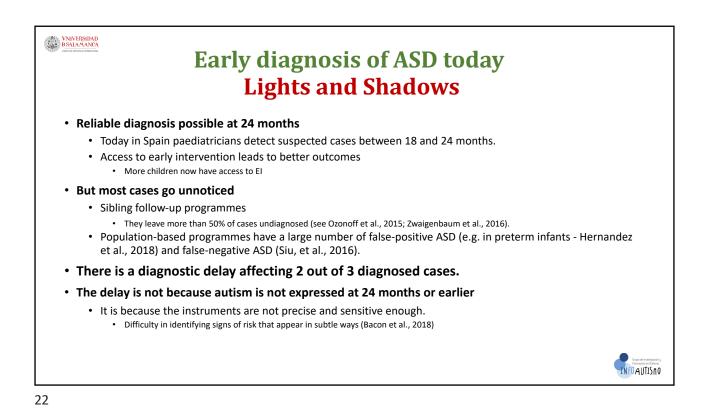




| High | number of | false positives | |
|-----------------------------|---------------------|---------------------------|--|
| | Low sensi | tivity | |
| The | positive predictive | value for ASD only | |
| Tool | PPV | Reference | |
| M-CHAT | 0,6 | Chlebowski, et al. (2013) | |
| M-CHAT-R / F | 0, 54 | Chlebowski, et al. (2013) | |
| Positive p | redictive value for | any developmental delay | |
| Herramienta | PPV | Referencia | |
| M-CHAT | 98% | Chlebowski, et al. (2013) | |
| M-CHAT-R / F | 94% | Robins et al. (2013) | |
| M-CHAT con JA-OBS | 90% | Nygren et al. (2012) | |
| CESDD | 83% | Dereu et al. (2010) | |
| ESAT | 99% | Dietz et al. (2006) | |
| Infant Toddler Checklist (I | TC) 93% | Wetherby et al. (2008) | |



Parental collaboration Parental collaboration if children have more evident atypical behaviour. Less collaboration if children are younger Better several informants Parents as informants Paediatricians + nurses + carers Need for good training programmes and an appropriate toolkit E.g. DIANE project Training reduces fear of misidentification

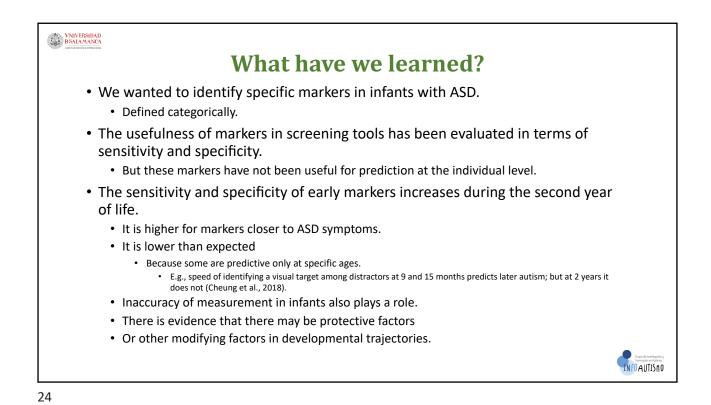


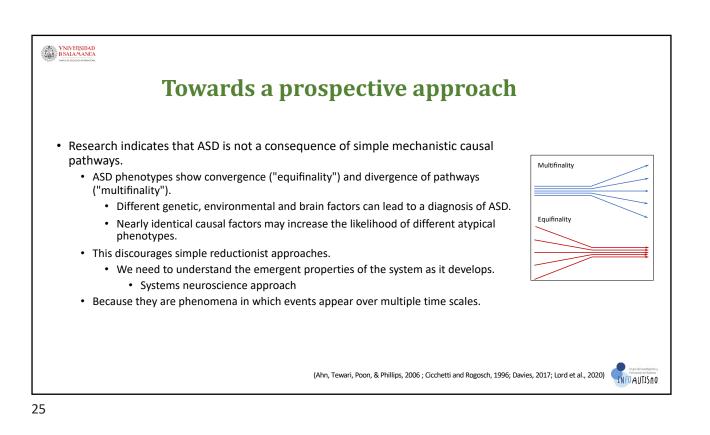
INFOAUTISTIO

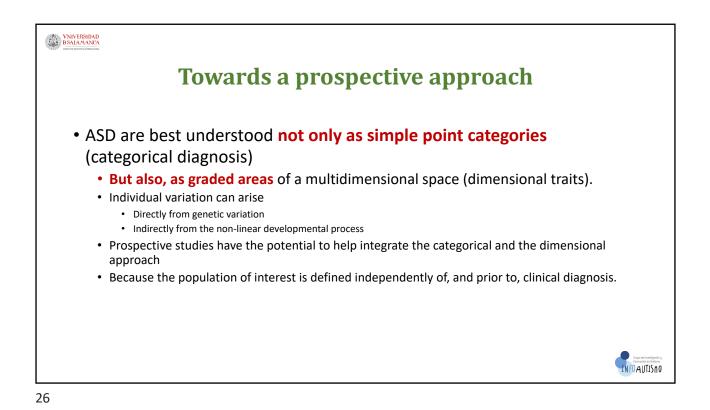
Symptoms of ASD may emerge or attenuate over time (Landa et al. 2022).

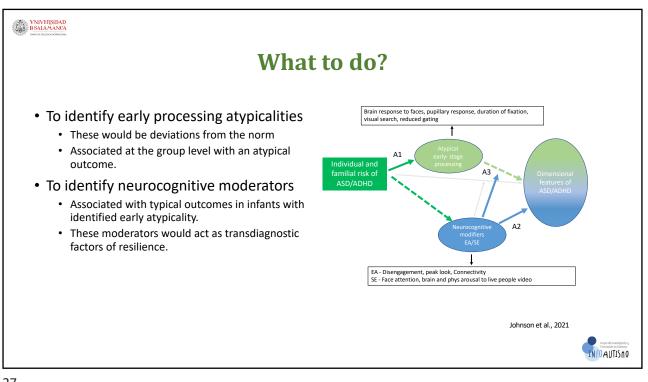
• The sensitivity and stability of the diagnosis of ASD is significantly increased.

- From time 1 (sensitivity: 52%; stability: 63%)
- Till time 2 (sensitivity: 86%; stability: 68%)
- Predictors of belonging to different diagnostic groups:
 - Presence of restricted and repetitive behaviours
 - Limitations in the initiation of joint attention
 - Expressive language skills

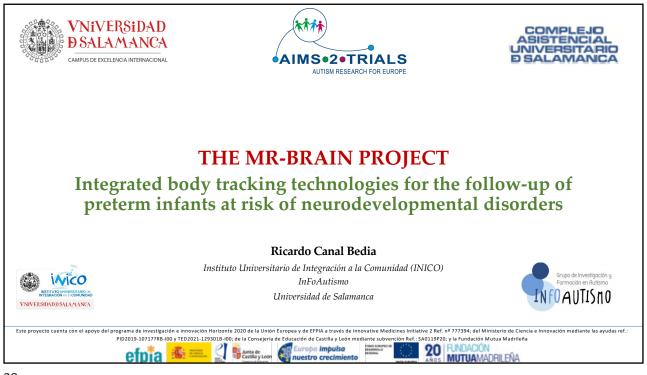


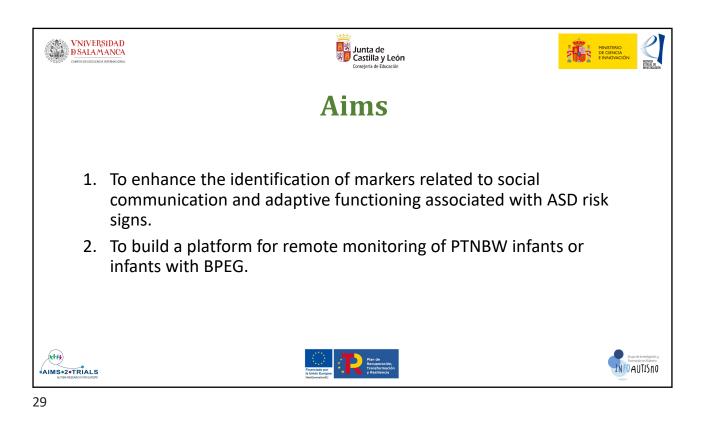


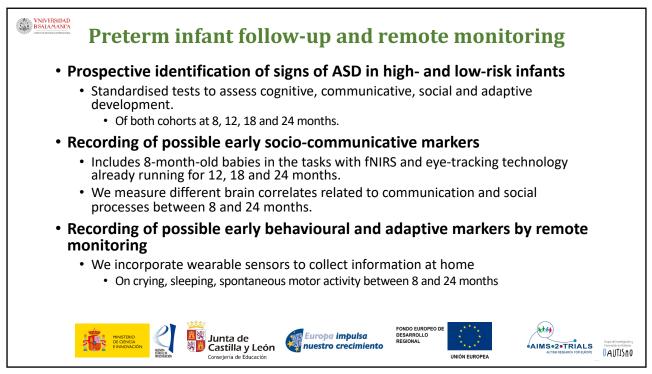


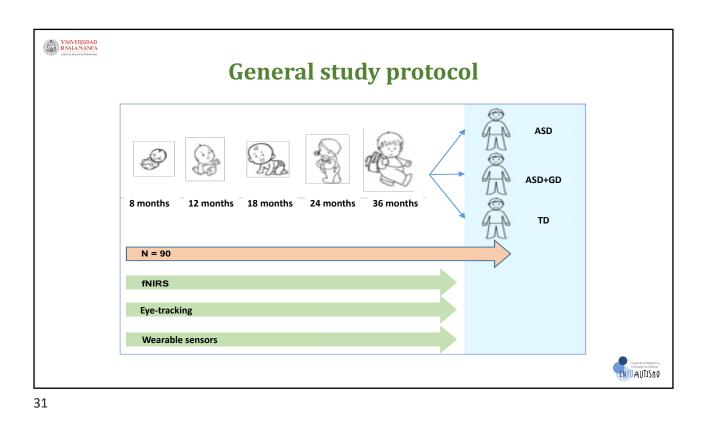




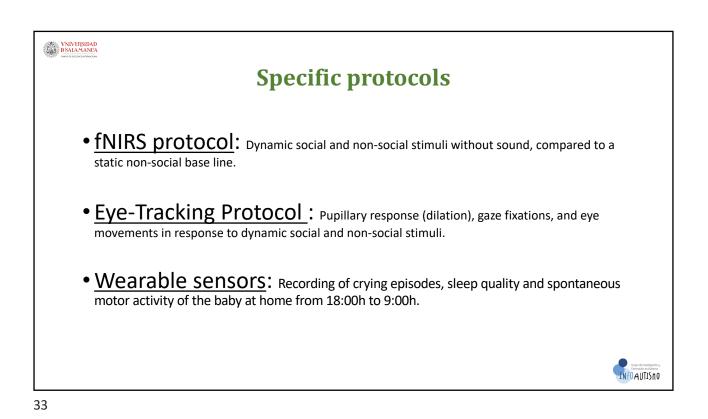


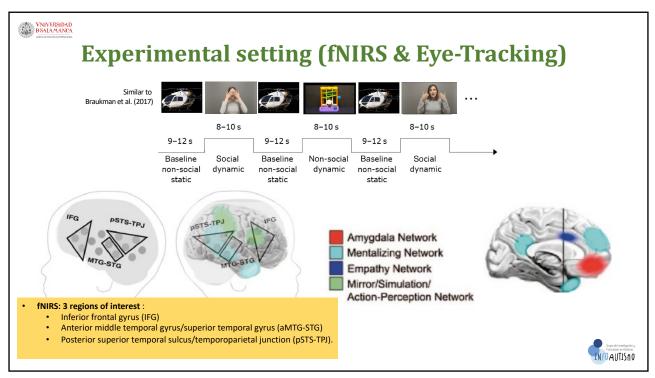


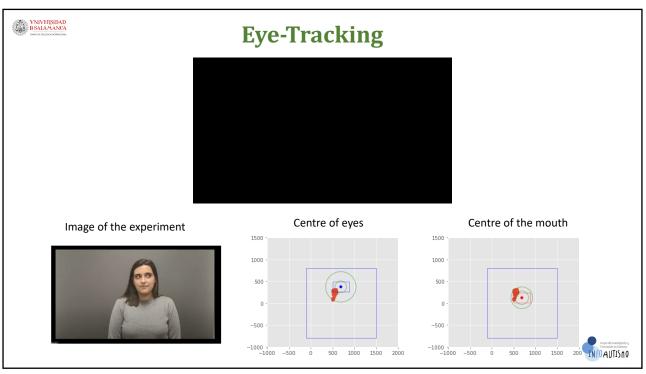


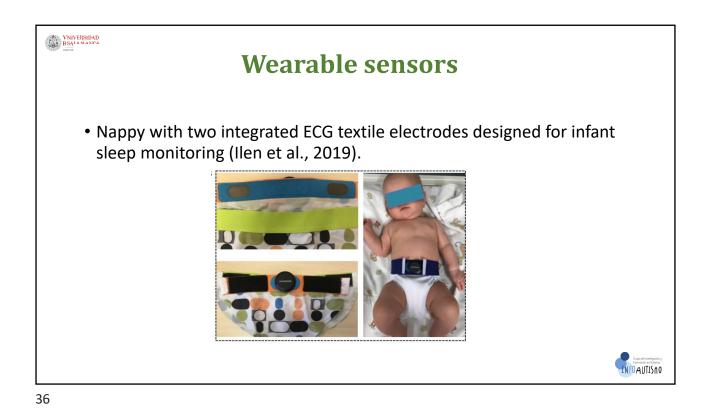


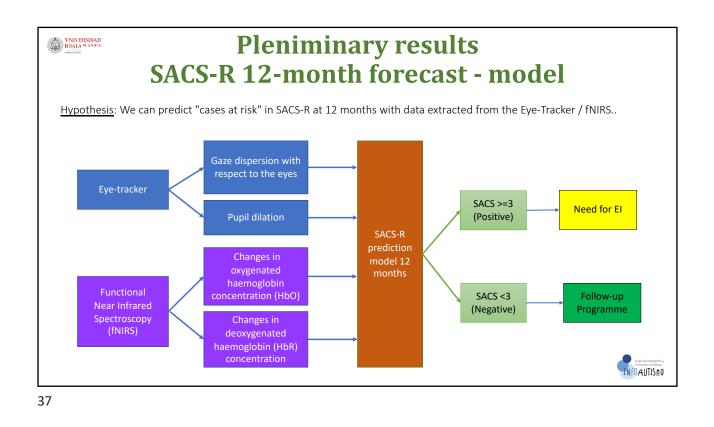
| | Age | 0-6 months | 8 months | 12 months | 18 months | 24 months | 30 months | 36 months | |
|----------------------|-----|---------------|-------------|--------------|--------------|--------------|--------------|--------------|--|
| Invitation & Consent | | X | | | | | | | |
| Clinical information | | х | x | x | x | x | x | х | |
| Parental temperament | | | | х | | | | | |
| AQ parents | | | | х | | | | | |
| SACS | | | | х | х | х | | х | |
| M-CHAT-R | | | | | х | х | | | |
| Bayley III | | | х | х | х | х | | х | |
| Vineland | | | х | х | х | х | | х | |
| MacArthur Inventory | | | | | х | х | | | |
| ADOS-2 | | | | | х | х | | х | |
| fNIRS | | | | х | x | x | | | |
| Eyetracking | | | | х | x | x | | | |
| Wearable sensors | | | х | х | х | x | х | х | |

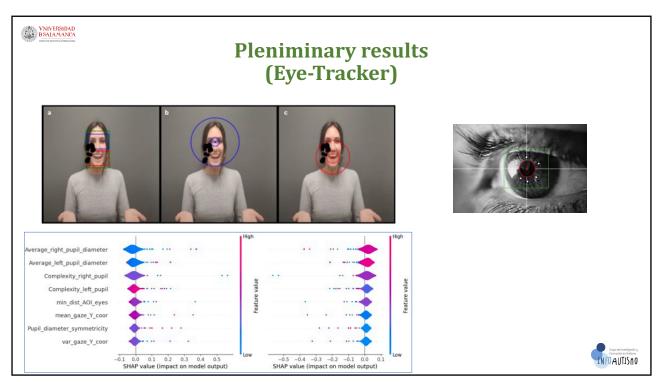


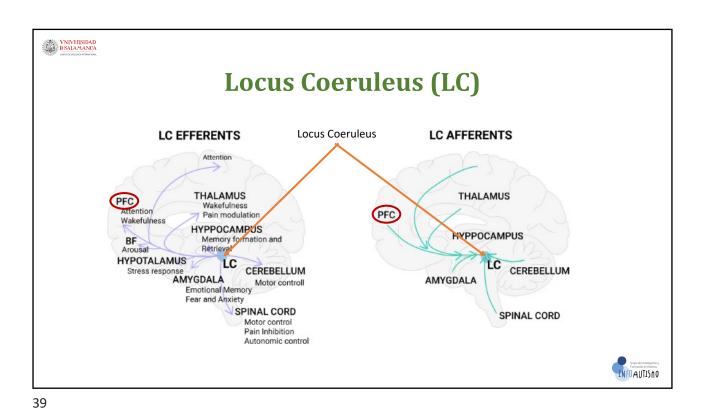












| Algorithm | Accuracy | PPV | NPV | Recall /Sensitivity | Specificity | F1 Score | мсс | AUC score |
|---------------|----------|-----|------|------------------------|-------------|-------------|------|-----------|
| Random Forest | 0.94 | 0.6 | 0.98 | 0.75 | 0.96 | 0.67 | 0.67 | 0.94 |

