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自閉症類群障礙症（autism spectrum disorder, ASD）是先天的神經發展障礙症，且為高度異質性的群體。當代研究指出 ASD 盛行率已經超過 2%。因此，早期診斷提供患者療育訓練是重要的方向。另一個重要議題是探究 ASD 患者發展次群體或發展軌跡，瞭解不同亞型內個體的相似性，以便能針對不同亞型患者屬性提供適當的早期療育。研究團隊過去幾年致力於發展本土 ASD 幼兒早期篩檢工具「自閉症類群障礙幼兒篩檢工具（Screening Tool for Autism Spectrum Disorder in Toddlers, STASD-T）」，用來篩檢 3 歲以下 ASD 幼兒，且具備良好篩檢正確率。研究團隊預計每年舉辦一場工作坊，進行工具推廣。另外，研究團隊於 2023 年發表探究發展障礙兒童（ASD 兒童及其他類型發展遲緩兒童）語言能力的發展軌跡的研究，結果發現發展障礙語言理解能力出現三條路徑，而語言表達能力出現兩條路徑，支持發展異質性，且 ASD 兒童比較可能屬於障礙較為嚴重的一群。



【具體成果】

● 學術成就

本研究團隊致力於發展本土化 ASD 篩檢工具及發展軌跡的研究，已取得重要的研究成果，如下：

1. Yao, P. Y., Iao, L. S., & Wu, C. C.* (2023). Language development trajectories in young children with developmental disabilities in Taiwan. *Research in Developmental Disabilities, 136*, 104470.
2. 侯育銘、吳進欽*（出版中）。自閉症類群障礙症幼兒篩檢工具的發展：篩檢正確率初探。應用心理研究。

研究團隊所發展的本土化 ASD 早期篩檢工具「自閉症類群障礙幼兒篩檢工具（Screening Tool for Autism Spectrum Disorder in Toddlers, STASD-T）」，初步研究成果已經發表。研究團隊為推廣 STASD-T 的應用，將與社團法人台灣兒童青少年發展障礙學會共同舉辦認證工作坊，第二場將於 114 年 11 月 30 日於本校舉行。此工作坊旨在提升臨床與教育工作者對 STASD-T 的理解與使用能力，促進 ASD 的早期篩檢與介入，未來將持續辦理。關於 ASD 兒童發展軌跡的研究，研究團隊已經將新的研究結果進行投稿，正在接受審查。



【研究團隊】

團隊成員：吳進欽、邱子琳、江以昕、莊程恩、吳汶璇、王芝穎、李穎怡、黃皓萱

團隊簡介：本研究團隊專注於 ASD 診斷與篩檢工具的發展，致力於推動 ASD 的早期篩檢與介入工作。團隊成員皆接受過專業訓練，擅長發展評估及自閉症篩檢工具的施測，及早期療育訓練。研究成員具備豐富理論基礎與實務經驗。多年來，研究團隊在南台灣累積大量的研究與實務經驗，並與多家醫療、社福及教育機構合作，為 ASD 患者與家庭提供支持。

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Autism spectrum disorder (ASD) is an innate neurodevelopmental condition and represents a highly heterogeneous group. Recent research indicates that the prevalence of ASD has exceeded 2%. As a result, early diagnosis and early intervention have become important issues. Another key issue is identifying subgroups or developmental trajectories within the ASD population. Thus, it is becoming essential to examine and understand the heterogeneity of individuals with ASD by establishing more homogeneous subtypes. It is helpful for early interventions of children with ASD.

I and colleagues have focused on developing a local early screening tool ‘Screening Tool for Autism Spectrum Disorder in Toddlers (STASD-T)’ which designed to detect ASD in toddlers under age three. The STASD-T has been demonstrated to have high accuracy and we plan to hold an annual workshop to promote it. In addition, in 2023, we published a study examining developmental trajectories of language abilities in children with developmental disorders (including children with ASD and those with developmental delays). The findings revealed three distinct trajectories for receptive language and two trajectories for expressive language, supporting the notion of developmental heterogeneity. The results also showed that children with ASD were more likely to fall into the groups with more severe impairments.



【Concrete Results】

● Academic Achievements

Our research team is dedicated to developing localized ASD screening tools and studying developmental trajectories in this population. Some studies have been published. Please see below.

Yao, P. Y., Iao, L. S., & Wu, C. C.* (2023). Language development trajectories in young children with developmental disabilities in Taiwan. *Research in Developmental Disabilities, 136*, 104470.

Hou, Y. M. & Wu, C. C.*(in press). Development of the Screening Tool for Autism Spectrum Disorder in Toddlers: A Preliminary Study of the Detecting Accuracy. *Research in Applied Psychology*.

The early ASD screening tool developed by our team—the Screening Tool for Autism Spectrum Disorder in Toddlers (STASD-T)—has already been published and the preliminary findings showed high accuracy. To promote the use of the STASD-T, our team will co-host certification workshops with the Taiwan Society of Child and Adolescent Developmental Disorders. The second workshop will be held at KMU on November 30, 2025. The aim of this workshop is to enhance clinicians' and educators' understanding and application of the STASD-T, thereby supporting early screening and intervention for ASD. Additional workshops will continue to be offered in the future. Regarding developmental trajectories in children with ASD, our team has submitted new findings for publication, and is currently under review.



【Research Team】

Team Member: Chin-Chin Wu, Zih-Lin Ciou, Yi-Hsi Chiang, Cheng-En Chuang, Wen-Hsuan Wu, Chih-Ying Wang, Weng-I Lei, Hao-Hsuan Huang

Overview: Our team focuses on developing diagnostic and screening tools for ASD and is committed to promoting early screening and intervention. All team members are trained and experienced in developmental assessments, autism screening tools, and early intervention practices. The member of our team possesses good theoretical and practical expertise. Over the years, we have accumulated some research and practical experience in southern Taiwan. We also collaborate closely with medical, social welfare, and educational institutions to provide support for individuals with ASD and their families.

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