# Patient-completed screening tools have poor diagnostic accuracy for neuropathic orofacial pain in a hospital-based cohort

# 

# Introduction

Diagnosis of orofacial pain (OFP) syndromes is complex due to dent and simultaneous manifestations in one patie

The Oregon Health and Science University questionnaire (OHS used to recognise orofacial pain syndromes (McCartney et al. 20 questionnaire (PD-Q) scores patients on their likelihood of have components (Freynhagen et al. 2006).

## Screening Result Final score negative unclear pos

3 4 5 6 7 8 9 10 11 **12 13** 14 15 16 17 **18 19** 20 21 22 23 24 25 26 27 28 2

A neuropathic pain component is unlikely (< 15%)

Aim

Result is ambiguous, however a neuropathic pain component can be present

A neuro pain com is like (> 90

Figure 1 | Scoring and screening result of the

We aimed to determine and compa accuracy of the OHSU and PD-Q for in a hospital based coh

# Methods

A prospective diagnostic study was conducted at a Facial Pain ac United Kingdom. After referral, and prior to their first appointment, either the OHSU or the PD-Q to complete.

The primary outcome was the accuracy of each screening tool syndromes. The secondary outcome was the factors associated w



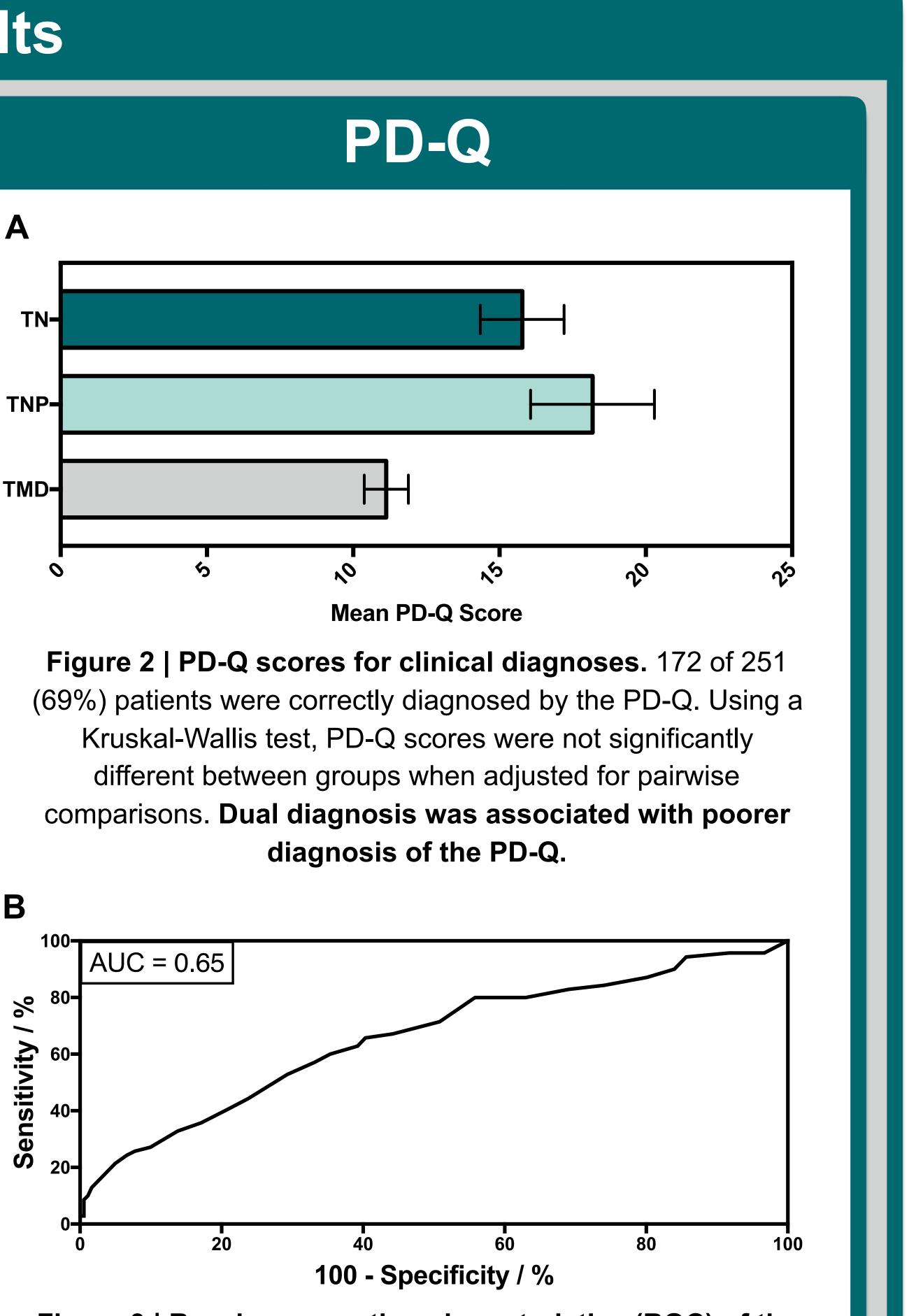
**Daniyal J Jafree, Joanna Zakrzewska, Carolina Venda-Nova** 

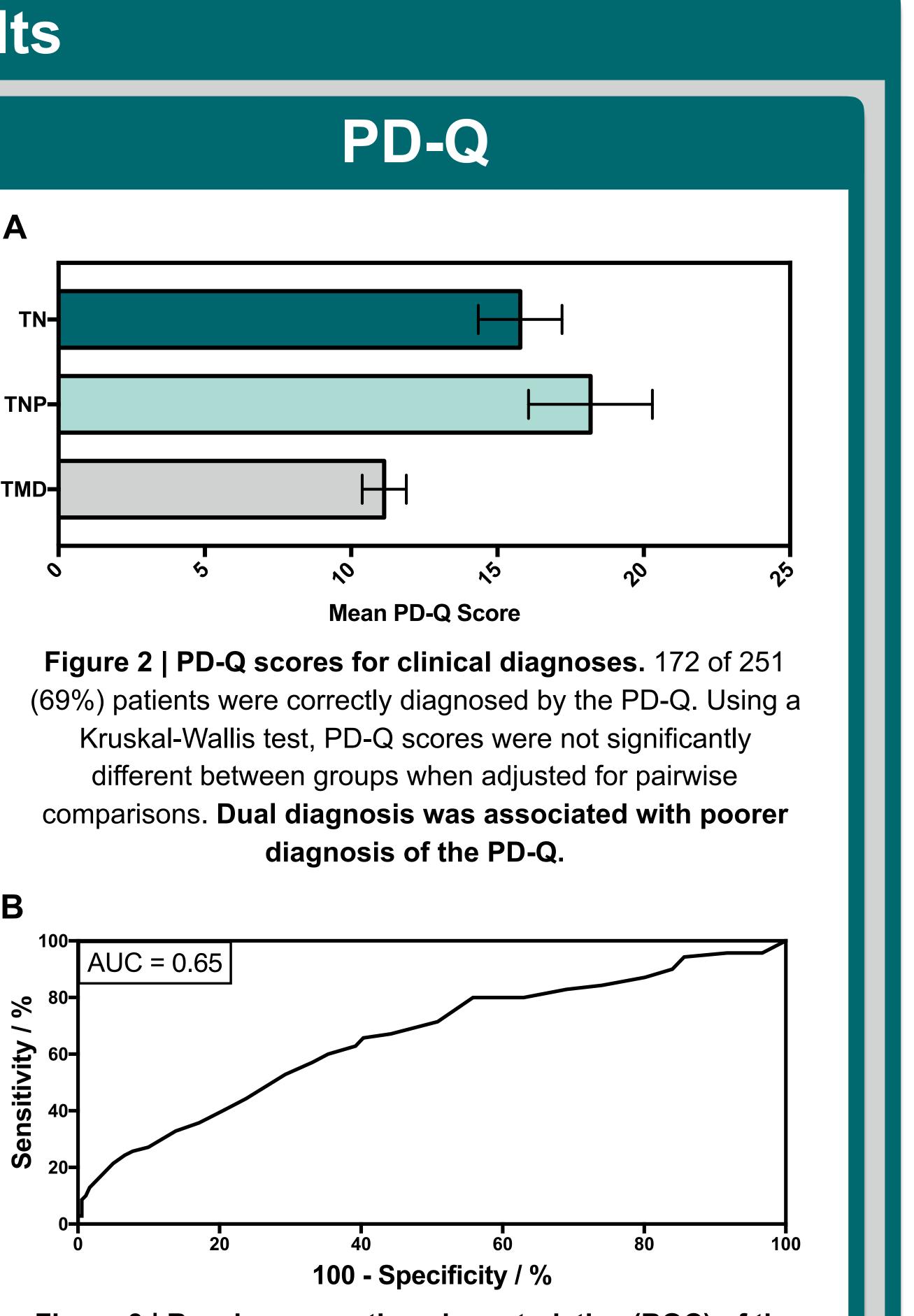
Eastman Dental Institute, University College London Hospitals NHS Foundation Trust, London, United Kingdom

daniyal.jafree.13@ucl.ac.uk

	Results										
ental and non-dental overlap tient.		OHSU									
<b>HSU)</b> is a 22-question tool 2014). The <b>PainDETECT</b> aving neuropathic pain			Prevalence	Sensitivity	Specificity	PPV	NPV		A TN-		
		TN	32%	84% (69-93)	59% (48-69)	49% (37-60	) 89% (78-95)		TNP-		
sitive		TMD	32%	48% (33-63)	86% (78-93)	62% (44-78	) 78% (69-86)		TMD-	- ب ب	
		TNP	8%	27% (6-61)	95% (90-98)	33% (7-70)	94% (88-97)		<b>Figure 2  </b> (69%) patier		
ikely 90%) ne PD-Q.		Table (63%) p diagnos most neuralgia neuropa		Kruskal-Wal different be comparisons. <b>B</b> $B^{100}$ AUC = 0.65							
or recognition of OFP hort.				sdiagnosis					Sensitivity / % 80- 80- 80- 80- 80- 80- 80- 80-		
academic unit in London, nt, patients were assigned e. ol for recognising OFP with diagnostic accuracy.		Summary The is the first prospective study comparing diagnostic accuracy of patient-completed screening tools for OFP. These have a low diagnostic accuracy, underestimating the complexity of OFP. Tools must be revalidated in appropriate target populations prior to clinical use.							Figure 3   F PD-Q. Th		
				NHS			Fre	ynhager	ı, R., Baron, R., Goo	ockel,	

**University College London Hospitals NHS Foundation Trust** 





ceiver operating characteristics (ROC) of the area under the curve (AUC) for the PD-Q was 0.65.



References

Freynhagen, R., Baron, R., Gockel, U., Tölle, T. R. (2006). Curr Med Res Opin. 22, 1911-1920. McCartney, S., Weltin, M., Burchiel, K. J. (2014). 92, 44-52.