

[ORDER FORM \(1\)](#) - see pages 4 and 5

[PEPS-C TERMS AND CONDITIONS](#) - see page 3

INFORMATION:

Profiling Elements of Prosody in Speech-Communication (PEPS-C) is a semi-automated test battery for assessing receptive and expressive prosody skills. It has been used in several studies of the speech and understanding of children with high-functioning autism/Asperger's syndrome. It is intended for use by language teachers, clinicians and researchers in assessing prosody in any conditions in both children and adults.

Prosody is a little-investigated aspect of speech, concerning not what you say but the way you say it: the effect of intonation, emphasis and prosodic phrasing on the meaning and impact of the spoken utterance. Prosody is frequently disordered in people with language impairment and learners of second languages. PEPS-C has been developed and used as a research tool and is now available in a version designed to assist therapists and teachers in remedial intervention.

The test is suitable for all ages above 4. A tester administers the test using a computer and elicits responses through auditory stimuli and pictures presented on the screen, using items that are culturally inoffensive and easy to pronounce. The pictures included in the test are likely to be familiar to all, including young children, but a pre-test vocabulary check is completed so that tester and client can agree on the words for what is seen in the pictures. Confidentiality is ensured in that the client is assigned an identity code which is all that appears in computer records. The test is available in several language versions and runs on a PC. The package uses Microsoft Excel to store and display results¹.

PEPS-C 2015 comprises fourteen tasks, addressing receptive and expressive skills in parallel. The tasks are at two levels, examining 6 prosodic functions (6 receptive and 6 expressive tasks) and prosodic form (2 tasks):

1. Turn end: indicating whether an utterance requires an answer or not (question/statement)
2. Affect: indicating mood/emotions/opinions; in this test, signalling liking or reservation with respect to food items
3. Lexical Stress: indicating placement of primary stress in 2-syllable words
4. Phrase Stress: differentiating between 2 simple nouns or one compound noun according to stress realisation
5. Boundary: prosodic phrase boundaries indicating how speech can be verbally 'chunked', as in the difference between 'fruit, salad and milk' and 'fruit-salad and milk'
6. Contrastive Stress: emphasising one word in an utterance to focus attention on it, e.g. 'white COW' as opposed to 'WHITE cow'.

Prosodic form processing requires non-cognitive skills. The tasks are:

1. an auditory discrimination task, essentially a same/different task. Stimuli exemplify the prosodic variations that convey the different meanings used in the receptive prosodic function tasks (*receptive*)
2. an imitation task requiring the production of the types of prosodic variation needed for completing the expressive function tasks (*expressive*).

The assessment of skills at two levels helps to determine the level at which a client has a problem with prosody, thus enabling better targeting of intervention. The test is not standardised, but a limited amount of normative data is available.

The test is easy to administer but requires some familiarisation. Receptive tasks present an auditory stimulus with two pictures as response options on the computer screen: clients indicate one half of the computer screen by way of response. In expressive function tasks, pictures appear on the screen and clients have to say what they see: their utterances are scored by the tester on a separate keypad (see below). For imitation tasks, testers evaluate utterances as Good, Fair or Poor: a training programme is included in the package to ensure uniformity of judgments.

PEPS-C 2015 can automatically collate summary and detailed results from multiple clients in a separate Excel workbook. (It no longer automates the rating by several judges of expressive task responses as was the case with an earlier Research version of the test.)

¹ As at 1 October 2015: Dutch, English (Australian, North American, Southern British English, Scottish Edinburgh, Irish), French, Norwegian, Spanish. The test is not currently available on Apple Mac computers, though the results workbook can be used on a Mac.

Scoring is automated, ensuring safety from transcription errors and enabling the tester to focus on the client's performance. The Excel workbook includes a summary scoresheet for each client that can be printed out. Individual scores can be compared with data obtained from control clients. Item scores, useful for determining error patterns, are provided in detailed scoresheets.

The overall scheme is illustrated below:

Test administered in clinic, school, home, lab etc.



Results presented in Excel sheets:
Record Form and Results Summary

Profiling Elements of Prosody in Speech-Communication						
Record Form and Results Summary						
Name						
ID for test			Test Date			
Gender			Birth Date			
Pre-test checks		Completed				
C_Vocabulary & same-different check						
RESULTS SUMMARY (Pass is set at 75% for each subtest)						
1.25 standard deviations below the mean (in bold) is interpreted as an area of difficulty for						
Receptive subtests	Tester	Location	Raw Score	Percentage Score	Pass/Fail	Unscored Items
Discrimination						16
Turn end Understanding						16
Affect Understanding						16
Lexical Stress Understanding						16
Phrase Stress Understanding						16
Boundary Understanding						16
Contrastive Stress Understanding						16
Receptive Results						112
Expressive subtests	Tester	Location	Raw Score	Percentage Score	Pass/Fail	Unscored Items
Imitation						16
Turn end Expression						16
Affect Expression						16
Lexical Stress Expression						16
Phrase Stress Expression						16
Boundary Expression						16
Contrastive Stress Expression						16
Expressive Results						112
When norms available						
Total Test Score	Raw Score	Percentage Score	Standard Deviations from mean	% passing at this ability level		

And in an Excel Detailed results sheet:

Detailed Results

Milk		Cream		Bananas		Pears		Eggs		Oranges		Bread		Jam		Apples		Cake		Honey		Raisins		Salad		Leeks		Cabbage		Carrots		Cheese		Tomatoes																																																			
Item	Cue	Response	Score	Item	Cue	Response	Score	Item	Target	Response	Judgment	Score	Item	Cue	Response	Score	Item	Target	Response	Judgment	Score	Item	Cue	Response	Score	Item	Cue	Response	Score	Item	Target	Response	Judgment	Score																																																			
P milk	D			P cream	L			1 bananas	L	L ^A	1	1	2 pears	L	L ^A	1	3 eggs	D	D [~]	1	1	4 oranges	D	D [~]	1	5 bread	L	L ^A	1	1	6 jam	D	D [~]	1	1	7 apples	L	L ^A	1	1	8 cake	L	L ^A	1	1	9 honey	D	D [~]	1	1	10 raisins	D	D [~]	1	1	11 salad	D	D [~]	1	1	12 leeks	L	L ^A	1	1	13 cabbage	L	L ^A	1	1	14 carrots	D	D [~]	1	1	15 cheese	L	L ^A	1	1	16 tomatoes	D	D [~]	1	1
		TOTAL				16				TOTAL		16				TOTAL		16				TOTAL		16				TOTAL		16				TOTAL		16																																																	



- Keypad for recording tester's judgments

PEPS-C TERMS AND CONDITIONS

The PEPS-C test software described in the PEPS-C 2015 User Guide is furnished under a licence agreement and may be used and copied only in accordance with the terms of the licence agreement. It is against the law to copy the software on any other medium except as specifically allowed in the licence agreement. The licensee may make one copy of the PEPS-C test software for backup purposes. No part of the PEPS-C User Guides may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, for any purpose without the written permission of Sue Peppé.

PEPS-C is being offered on the understanding that normative data (i.e. data from typically-developing children or neurotypical adults) collected for comparison purposes will be made available to the central repository of prosodic data maintained by Sue Peppé (enquiries@peps-c.com), with a view to eventual standardisation. Users trialling the test will be asked to keep records of any failures and difficulties in using the test and to report them to Sue Peppé (enquiries@peps-c.com).

Users of PEPS-C are strongly recommended to follow the instructions and procedures set out in the PEPS-C 2015 User Guide. Information in the Guide is subject to change without notice and does not represent a commitment on the part of Sue Peppé.

I have read and I accept the terms and conditions of using PEPS-C. I undertake to make a copy of my normative data available for Sue Peppé's central repository of prosodic data, and to report problems.

Name of researcher/licensee:

Signed:

Date:

Please print and sign this agreement and either:

post it to: Dr Sue Peppé, High Appin, Tynron, Thornhill, DG3 4LF, UK

email it as a .pdf to enquiries@peps-c.com

Please complete the order form on page 5 and email it (not as a pdf) to enquiries@peps-c.com

ORDER FORM (1)

Please ensure you have the following equipment and software environment (required for PEPS-C):

PC (not Mac) desktop or laptop for assessing clients and collecting data: <ul style="list-style-type: none"> • Microsoft Windows: 95, 98, 2000, XP/MCE, XP, Windows NT , Vista, 7, 8, 10 • a soundcard • 1 spare USB port • 1 microphone: internal or external
PC (not Mac) desktop or laptop for scoring results (can be same PC as above): <ul style="list-style-type: none"> • Microsoft Windows: 98, 2000, XP, Windows NT, Vista, 7 , 8, 10 • a soundcard • Microsoft Office (Excel): 97, 2000, 2002, XP, 2003, 2007, 2010

The PEPS-C package comprises:

- a customised keypad (postage is included in the price)
- a Dropbox link giving access to:
 - the PEPS-C installation program
 - user guides and training programme (MS Word documents – also available in .pdf format on request)
- email/telephone support

Support: The current releases are beta-versions intended for researchers in speech sciences and clinicians. While every effort will be made to ensure the software runs smoothly, it is not expected to be problem-free. On-line consultation is available; apply to Sue Peppé/Gavin King-Smith:

- tel. +44 (0)1848 200770 or
- email support@peps-c.com

Payment:

- for UK customers: by Paypal or BACS transfer; £180 (PLEASE NOTE: This currency is GBP, not euros). Recipient's account details will be sent on receipt of order.
- for non-UK customers: by Paypal (account: sue.peppe@gmail.com). This is all that is needed by way of details)

The test will be shipped once payment has been received.

Please print and sign the agreement on page 3 and either:

post it to: Dr Sue Peppé, High Appin, Tynron , Thornhill, DG3 4LF, UK

email it as a .pdf to enquiries@peps-c.com

Please complete the order form on page 5 and email it (**not as a pdf**) to enquiries@peps-c.com

ORDER FORM (2)

Please complete this form and return it by email (**not as a .pdf**) to enquiries@peps-c.com

User's Full Name and Title:
User's Institution:
Address to which PEPS-C is to be sent:
Email Address:
Tel:
Research Study/Project Name
Invoice required: Yes /No
Date PEPS-C required:
Accent-version of English required (5 currently available) (please ✓/ make bold): <ul style="list-style-type: none"> • Southern British (UK general): UKGen • Edinburgh Scottish (UK regional): UKScotEd* • Irish English* • General American: NAGen • General Australian: AUSGen* Other languages: Spanish, French, Dutch, Norwegian, Finnish, Portuguese, Farsi
* There is as yet no 2015 edition of these accent-versions. For these versions, please contact enquiries@peps-c.com direct
Likely starting-date and duration of study/project:
Experimental group: condition, regional accent, child/adult, estimated number:
Control group: condition (e.g. neurotypical) regional accent, child/adult, estimated number:
State specification of (PC) computer collecting data (please circle/ bold relevant option in all bullets): <ul style="list-style-type: none"> • version of Microsoft Windows: 95, 98, 2000, XP, XP/MCE, NT, Vista, 7, 8, 10 • version of Office (Excel): 97, 2000, 2002, XP, 2003, 2007, 2010 • make and model of soundcard if known: • ports: USB(number available) • microphone: internal, external:
State specification of (PC) computer analysing data (where different): <ul style="list-style-type: none"> • version of Microsoft Windows: 98, 2000, XP, NT, Vista , 7, 8, 10 • version of Office (Excel): 2000, 2002, XP, 2003, 2007 , 2010