



Corrigendum: Analysis of Perceptual Expertise in Radiology – Current Knowledge and a New Perspective

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Keywords: visual perception, expertise, radiology, visual search, perceptual learning, attention, holistic processing, gist

A Corrigendum on

Analysis of Perceptual Expertise in Radiology – Current Knowledge and a New Perspective by Waite, S., Grigorian, A., Alexander, R. G., Macknik, S. L., Carrasco, M., Heeger, D. J., et al. (2019) Front. Hum. Neurosci. 13:213. doi: 10.3389/fnhum.2019.00213

In the original article, there was a mistake in the caption for **Figure 5**. The caption incorrectly states that the figure was from Reed et al. (2011) however the figure was reprinted from Litchfield and Donovan (2016) with permission. The correct legend appears below.

The authors apologize for this error and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

Figure 5. Reprinted from Litchfield and Donovan (2016) with permission. Two different experience groups—expert radiologists and psychology students—searched for lung nodules from CXR images using the flash-preview moving window (FPMW) paradigm. Participants looked at the target word for 15 s ("lung nodule"). They then saw a fixation cross for 200 ms, then either a mask preview (random array of colored pixels) or a CXR (a 'scene' preview) for 250 ms. Next, participants saw a mask for 50 ms and then a second fixation cross for 400 ms. Following a second presentation of the fixation cross, they conducted a windowed search, with a 2.5-degree radius window restricting the field of view (Litchfield and Donovan, 2016).

REFERENCES

Litchfield, D., and Donovan, T. (2016). Worth a quick look? Initial scene previews can guide eye movements as a function of domain-specific expertise but can also have unforeseen costs. J. Exp. Psychol. Hum. Percept. Perform. 42, 982–994. doi: 10.1037/xhp0000202

Reed, W. M., Ryan, J. T., McEntee, M. F., Evanoff, M. G., and Brennan, P. C. (2011). The effect of abnormality-prevalence expectation on expert observer performance and visual search. *Radiology* 258, 938–943. doi: 10.1148/radiol.10101090

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Edited and reviewed by:

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Received: 02 July 2019 Accepted: 23 July 2019 Published: 13 August 2019

Citation:

Waite S, Grigorian A, Alexander RG, Macknik SL, Carrasco M, Heeger DJ and Martinez-Conde S (2019) Corrigendum: Analysis of Perceptual Expertise in Radiology – Current Knowledge and a New Perspective. Front. Hum. Neurosci. 13:272. doi: 10.3389/fnhum.2019.00272