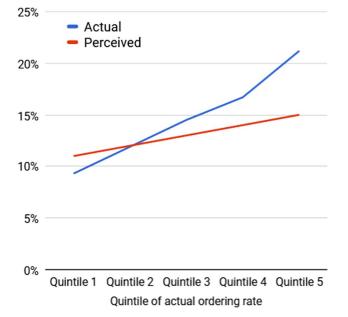
LETTER IN RESPONSE TO: "SELF-AWARENESS OF COMPUTED TOMOGRAPHY ORDERING IN THE EMERGENCY DEPARTMENT"

To the editor: Dr. Kadhim-Saleh and colleagues have likely demonstrated the Dunning-Kruger effect among emergency physicians.¹ The Dunning-Kruger effect is the observation that individuals with reduced skills in a domain also have reduced metacognitive ability to be aware that their skills are reduced.²

It is important to label the effect when found in order to facilitate discussion and linkage of studies across domains. The Dunning-Kruger effect has been repeatedly demonstrated in domains ranging from the original studies in logical reasoning and writing ability² to more recent studies of variability in leadership skills.^{3,4} The effect has been found in a systematic review of physician skills.⁵

The pervasiveness of the Dunning-Kruger effect and its ability to reduce the quality of health care directly through suboptimal medical decisions and indirectly through suboptimal medical leadership mandates further research. Regarding mitigation of the Dunning-Kruger effect, initial studies show that persons who are unaware of their deficits are also less able² and less willing⁴ to take advantage of feedback and benchmarking.

To be certain that the authors have found the Dunning-Kruger effect, the analysis and plot should be slightly different as estimated in



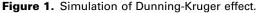


Figure 1 and done in the original studies by Dunning and Kruger.

Robert G. Badgett, MD* Brent A. Duran, DO†

*Internal Medicine, Preventive Medicine and Public Health, University of Kansas School of Medicine– Wichita, Kansas.

†Internal Medicine, University of Kansas School of Medicine– Wichita, Kansas.

REFERENCES

- 1. Kadhim-Saleh A, Worrall JC, Taljaard M, Gatien M, Perry JJ. Self-awareness of computed tomography ordering in the emergency department. *CJEM* 2017; epub, doi:10.1017/cem.2017.45.
- Kruger J, Dunning D. Unskilled and unaware of it: how difficulties in recognizing one's own incompetence lead to inflated self-assessments. *J Pers Soc Psychol* 1999;77(6):1121-34; doi:10.1037/0022-3514.77.6.1121.
- Sheldon OJ, Dunning D, Ames DR. Emotionally unskilled, unaware, and uninterested in learning more: reactions to feedback about deficits in emotional intelligence. *J Appl Psychol* 2014;99(1): 125-37; doi:10.1037/a0034138.
- 4. Giambatista RC, Hoover JD. An exploration of overconfidence in experiential learning of behavioral skills among MBA students. *Dev Bus Simul Exp Learn* 2015;41:268-78.
- Davis DA, Mazmanian PE, Fordis M, Van Harrison R, Thorpe KE, Perrier L. Accuracy of physician selfassessment compared with observed measures of competence: a systematic review. *JAMA* 2006;296(9):1094-102; doi:10.1001/jama.296.9.1094.



[©] Canadian Association of Emergency Physicians