



The objective of this study was to evaluate the quality of instructional sterile compounding videos posted on a popular video-sharing website (YouTube)” Sluggett et al (2019).

Abstract:

The objective of this study was to evaluate the quality of instructional sterile compounding videos posted on a popular video-sharing website (YouTube). YouTube was systematically searched using relevant terms (aseptic compounding, sterile compounding) to identify all videos demonstrating aseptic manipulations of compounded sterile preparations in a cleanroom. Promotional videos, news stories, interviews, and videos with manipulations performed outside a cleanroom, without audio or spoken in a language other than English, were excluded. Three experts independently reviewed each video and assessed the quality of key sterile compounding processes, information delivery, and overall suitability for workforce training using a standardized assessment tool. Kendall’s coefficient of concordance (W) was calculated to assess agreement. Included were 66 videos with a median of 839 (IQR 62-3935) views. There was moderate to substantial agreement among assessors when determining the quality of each step of the compounding process (W 0.48 to 0.72; all $P < 0.002$). Only one in five videos demonstrated an acceptable standard of gloving and garbing, while product inspection and waste disposal processes were more likely to be appropriately demonstrated. Most videos had acceptable sound/image quality and English pronunciation, but not all videos had a comprehensive narration. Six videos (9%) were recommended for training compounding personnel by two assessors and a further 17 (26%) videos were recommended

by one assessor. No videos were recommended by all three assessors. The conclusions of this study are: 1) there is considerable variation in the quality of instructional sterile compounding videos available on the YouTube website; 2) few videos are suitable for training compounding personnel.

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Reference:

Sluggett, J.K., Johnson, M.J., Zamani, M., Kastango, E.S., Bodnar, M., Cantor, P., Hobbs, J.G., Reynolds, K.J. and Sluggett, A.J. (2019) Evaluation of the Quality of Sterile Compounding Videos Available on the YouTube Video-sharing Website. *International Journal of Pharmaceutical Compounding*. 23(3), p.238-244.

