

Free Full Text from Publisher Look Up Full Text Find PDF Full Text Options Export... Add to Marked List

## The Influence of Feedback in the Simulated Patient Case-History Training among Audiology Students at the International Islamic University Malaysia

By: Dzulkarnain, AAA (Dzulkarnain, Ahmad Aidil Arafat)<sup>[1]</sup>; Sani, MKA (Sani, Maryam Kamilah Ahmad)<sup>[1]</sup>; Rahmat, S (Rahmat, Sarah)<sup>[1]</sup>; Jusoh, M (Jusoh, Masnira)<sup>[1]</sup>

JOURNAL OF AUDIOLOGY AND OTOTOLOGY  
Volume: 23 Issue: 3 Pages: 121-128  
DOI: 10.7874/jao.2018.00381  
Published: JUL 2019  
Document Type: Article

### Abstract

Background and Objectives: There is a scant evidence on the use of simulations in audiology (especially in Malaysia) for case-history taking, although this technique is widely used for training medical and nursing students. Feedback is one of the important components in simulations training; however, it is unknown if feedback by instructors could influence the simulated patient (SP) training outcome for case-history taking among audiology students. Aim of the present study is to determine whether the SP training with feedback in addition to the standard role-play and seminar training is an effective learning tool for audiology case-history taking. Subjects and Methods: Twenty-six second-year undergraduate audiology students participated. A cross-over study design was used. All students initially attended two hours of seminar and role-play sessions. They were then divided into three types of training, 1) SP training (Group A), 2) SP with feedback (Group B), and 3) a non-additional training group (Group C). After two training sessions, the students changed their types of training to, 1) Group A and C: SP training with feedback, and 2) Group B: non-additional training. All the groups were assessed at three points: 1) pre-test, 2) intermediate, and 3) post-test. The normalized median score differences between and within the respective groups were analysed using non-parametric tests at 95% confidence intervals. Results: Groups with additional SP trainings (with and without feedback) showed a significantly higher normalized gain score than no training group (p<0.05). Conclusions: The SP training (with/without feedback) is a beneficial learning tool for history taking to students in audiology major.

### Keywords

Author Keywords: Medical education; Hearing; Feedback; Audiology  
KeyWords Plus: MEDICAL-EDUCATION; SKILLS

### Author Information

Reprint Address: Dzulkarnain, AAA (reprint author)

+ Int Islamic Univ Malaysia, Kulliyyah Allied Hlth Sci, Dept Audiol & Speech Language Pathol, Jalan Sultan Ahmad Shah, Kuantan 25200, Pahang, Malaysia.

### Addresses:

+ [ 1 ] Int Islamic Univ Malaysia, Kulliyyah Allied Hlth Sci, Dept Audiol & Speech Language Pathol, Jalan Sultan Ahmad Shah, Kuantan 25200, Pahang, Malaysia

E-mail Addresses: a.aidil@gmail.com

### Funding

Funding Agency	Grant Number
Ministry of Higher Education of Malaysia through the Fundamental Research Grant scheme (FRGS)	FRGS15-236-0477
International Islamic University Malaysia through the Research Initiative Grant Scheme (RIGS)	RIGS 15-035-0035

[View funding text](#)

### Publisher

KOREAN AUDIOLOGICAL SOC, DEPT OTORHINOLARYNGOLOGY-HEAD & NECK SURGERY, SEOUL ST MARYS HOSPITAL #505 BANPO-DONG, SEOUL, 06591, SOUTH KOREA

### Citation Network

In Web of Science Core Collection

0

Times Cited

Create Citation Alert

27

Cited References

[View Related Records](#)

### Use in Web of Science

Web of Science Usage Count

1

Last 180 Days

1

Since 2013

[Learn more](#)

This record is from:  
Web of Science Core Collection  
- Emerging Sources Citation Index

### Suggest a correction

If you would like to improve the quality of the data in this record, please [suggest a correction](#).

## Categories / Classification

Research Areas: Otorhinolaryngology

Web of Science Categories: Otorhinolaryngology

[See more data fields](#)

◀ 1 of 1 ▶

## Cited References: 27

Showing 27 of 27 [View All in Cited References page](#)

(from Web of Science Core Collection)

- A method for collaboratively developing and validating a rubric** Times Cited: 1  
By: Allen, S; Knight, J.  
IJ-SoTL Volume: 3 Pages: n2 Published: 2009
- Debriefing in Simulated-Based Learning Facilitating a Reflective Discussion** Times Cited: 77  
By: Arafeh, Julie M. R.; Hansen, Sara Snyder; Nichols, Amy  
JOURNAL OF PERINATAL & NEONATAL NURSING Volume: 24 Issue: 4 Pages: 302-311 Published: OCT-DEC 2010
- Interprofessional Communication Skills Training for Serious Illness: Evaluation of a Small-Group, Simulated Patient Intervention** Times Cited: 50  
By: Bays, Alison M.; Engelberg, Ruth A.; Back, Anthony L.; et al.  
JOURNAL OF PALLIATIVE MEDICINE Volume: 17 Issue: 2 Pages: 159-166 Published: FEB 1 2014
- Standardized patients versus simulated patients in medical education: are they the same or different** Times Cited: 4  
By: Beigzadeh, A; Bahmanbijari, B; Sharifpoor, E; et al.  
J Emerg Pract Trauma. Volume: 2 Pages: 25-8 Published: 2016  
[\[Show additional data\]](#)
- A comparison of medical students' self-reported empathy with simulated patients' assessments of the students' empathy** Times Cited: 33  
By: Berg, Katherine; Majdan, Joseph F.; Berg, Dale; et al.  
MEDICAL TEACHER Volume: 33 Issue: 5 Pages: 388-391 Published: 2011
- Feedback by simulated patients in undergraduate medical education: a systematic review of the literature** Times Cited: 60  
By: Bokken, Lonneke; Linszen, Tim; Scherpbier, Albert; et al.  
MEDICAL EDUCATION Volume: 43 Issue: 3 Pages: 202-210 Published: MAR 2009
- Strengths and Weaknesses of Simulated and Real Patients in the Teaching of Skills to Medical Students: A Review** Times Cited: 47  
By: Bokken, Lonneke; Rethans, Jan-Joost; Scherpbier, Albert J. J. A.; et al.  
SIMULATION IN HEALTHCARE Volume: 3 Issue: 3 Pages: 161-169 Published: FAL 2008
- Peer role-play and standardised patients in communication training: a comparative study on the student perspective on acceptability, realism, and perceived effect** Times Cited: 53  
By: Bosse, Hans M.; Nickel, Martin; Huwendiek, Soeren; et al.  
BMC MEDICAL EDUCATION Volume: 10 Article Number: UNSP 27 Published: MAR 31 2010
- The use of simulated patients in medical education: AMEE Guide No 42** Times Cited: 117  
By: Cleland, Jennifer A.; Abe, Keiko; Rethans, Jan-Joost  
MEDICAL TEACHER Volume: 31 Issue: 6 Pages: 477-486 Published: 2009
- Informing parents of their child's hearing loss: Breaking bad news. Guidelines for audiologists** Times Cited: 9  
By: English, K.; Kooper, R.; Bratt, G.  
Audiology Today Volume: 16 Pages: 10-12 Published: 2004
- Development of an instrument to evaluate audiologic counseling skills** Times Cited: 9  
By: English, Kris; Naeve-Velguth, Susan; Rall, Eileen; et al.  
JOURNAL OF THE AMERICAN ACADEMY OF AUDIOLOGY Volume: 18 Issue: 8 Special Issue: 637 Pages: 675-687 Published: SEP 2007

12. **Assessment of resident professionalism using high-fidelity simulation of ethical dilemmas** Times Cited: 61  
 By: Gisondi, MA; Smith-Coggins, R; Harter, PM; et al.  
 ACADEMIC EMERGENCY MEDICINE Volume: 11 Issue: 9 Pages: 931-937 Published: SEP 2004
  
13. **Audiology education and practice from an international perspective** Times Cited: 57  
 By: Goulios, H.; Patuzzi, R. B.  
 INTERNATIONAL JOURNAL OF AUDIOLOGY Volume: 47 Issue: 10 Pages: 647-664 Published: 2008
  
14. **Using video- facilitated feedback to improve student performance following high-fidelity simulation** Times Cited: 40  
 By: Grant, J. S.; Moss, J.; Epps, C.; et al.  
 Clinical Simulation in Nursing Volume: 6 Pages: e177-e184 Published: 2010  
[\[Show additional data\]](#)
  
15. **Communication Patterns in Audiologic Rehabilitation History-Taking: Audiologists, Patients, and Their Companions** Times Cited: 24  
 By: Grenness, Caitlin; Hickson, Louise; Laplante-Levesque, Ariane; et al.  
 EAR AND HEARING Volume: 36 Issue: 2 Pages: 191-204 Published: MAR-APR 2015
  
16. Title: [not available] Times Cited: 1  
 By: Herman, M; Kolmann, C; Johnston, C.  
 Drama: contrasting monologues unit and rubric individual performance and rubric cited 2018 May Available from  
 URL: <https://web.archive.org/web/20151010161344/http://www.collierschools.com/english/la/docs/Drama%20Guide.pdf>
  
17. **An investigation of the standardised patient interview rating scale (SPIRS) for the assessment of speech pathology students in a simulation clinic** Times Cited: 4  
 By: Hill, A. E.; Davidson, B. J.; Theodoros, D. G.  
 Int J Pract-Based Learn Health Soc Care Volume: 3 Pages: 58-76 Published: 2015
  
18. **Simulated patients versus seminars to train case history and feedback skills in audiology students: A randomized controlled trial** Times Cited: 1  
 By: Hughes, Jane; Wilson, Wayne J.; MacBean, Naomi; et al.  
 INTERNATIONAL JOURNAL OF AUDIOLOGY Volume: 55 Issue: 12 Pages: 758-764 Published: 2016
  
19. **A tool for assessing case history and feedback skills in audiology students working with simulated patients** Times Cited: 1  
 By: Hughes, Jane; Wilson, Wayne J.; MacBean, Naomi; et al.  
 INTERNATIONAL JOURNAL OF AUDIOLOGY Volume: 55 Issue: 12 Pages: 765-774 Published: 2016
  
20. **Simulation in health care education** Times Cited: 101  
 By: Issenberg, S. Barry; Scalese, Ross J.  
 PERSPECTIVES IN BIOLOGY AND MEDICINE Volume: 51 Issue: 1 Pages: 31-46 Published: WIN 2008
  
21. **Communication skills of nurses during interactions with simulated cancer patients** Times Cited: 53  
 By: Kruijver, IPM; Kerkstra, A; Bensing, JM; et al.  
 JOURNAL OF ADVANCED NURSING Volume: 34 Issue: 6 Pages: 772-779 Published: JUN 2001
  
22. **Teaching motivational interviewing: using role play is as effective as using simulated patients** Times Cited: 50  
 By: Lane, Claire; Hood, Kerensa; Rollnick, Stephen  
 MEDICAL EDUCATION Volume: 42 Issue: 6 Pages: 637-644 Published: JUN 2008
  
23. **The relationship between mathematics preparation and conceptual learning gains in physics: A possible "hidden variable" in diagnostic pretest scores** Times Cited: 101  
 By: Meltzer, DE  
 AMERICAN JOURNAL OF PHYSICS Volume: 70 Issue: 12 Pages: 1259-1268 Published: DEC 2002
  
24. **Simulated Patients in Audiology Education: Student Reports** Times Cited: 8  
 By: Naeve-Velguth, Susan; Christensen, Sara A.; Woods, Suzanne  
 JOURNAL OF THE AMERICAN ACADEMY OF AUDIOLOGY Volume: 24 Issue: 8 Pages: 740-746 Published: SEP 2013
  
25. **The Importance of Debriefing in Simulation-Based Learning Comparison Between Debriefing and No Debriefing** Times Cited: 13  
 By: Ryoo, Eon Na; Ha, Eun-Ho  
 CIN-COMPUTERS INFORMATICS NURSING Volume: 33 Issue: 12 Pages: 538-545 Published: DEC 2015

26. **Screen-based anesthesia simulation with debriefing improves performance in a mannequin-based anesthesia simulator** Times Cited: 61  
By: Schwid, HA; Rooke, GA; Michalowski, P; et al.  
TEACHING AND LEARNING IN MEDICINE Volume: 13 Issue: 2 Pages: 92-96 Published: SPR 2001
27. **Student audiologists' impressions of a simulation training program** Times Cited: 7  
By: Wilson, W.J.; Hill, A.; Hughes, J.; et al.  
The Australian and New Zealand Journal of Audiology Volume: 32 Pages: 19-30 Published: 2010  
[\[Show additional data\]](#)

**Showing 27 of 27**   [View All in Cited References page](#)

**Clarivate**

Accelerating innovation

© 2019 Clarivate   [Copyright notice](#)   [Terms of use](#)   [Privacy statement](#)   [Cookie policy](#)

[Sign up for the Web of Science newsletter](#)   [Follow us](#)

