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Educating Dental Health Professionals about People with Intellectual and Developmental Disabilities¹

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Bac		

Dental schools and dental hygiene programs are required to Fifteen articles were identified to have a clear I/DD population Providers gained knowledge and/or a level of comfort in treating incorporate specialized training in their programs to serve definition, intervention, and outcome. Articles were reviewed people with I/DD after meeting and working with them as part of people with special needs, however people with intellectual in detail with structured abstraction of results entered into the training. Providers indicated they felt ill-prepared and expressed and developmental disability (I/DD) continue to experience AHRQ Systematic Review Data Repository. desire to have specific training. There are limited opportunities for poor oral health outcomes. Access to clinicians with the Interventions measured: structured exposure to this population in traditional dental curricula. desire and skill to care for people with I/DD remains a . Assess educational experience/knowledge acquisition: Quality of Evidence challenge. There is a need to understand the best curriculum for orthodontists, dentists, & hygienists approaches to improve access, and to reduce disparity in oral 2. Assess attitudes toward treating persons with I/DD Using questions adapted from The Community Guide Data health, for this vulnerable population representing 3. Assess an educational model: virtual patient, service Abstraction Form, clinical experts provided an interpretation of approximately 1-3% of the general population. Researchers learning, interprofessional model external validity, while a research methodologist accomplished a are systematically investigating the literature to uncover 4. Assess comfort/satisfaction with technique or materials: separate review of internal validity. Few studies rated "good" for both evidence of effective approaches to improve access and to behavior management, available information, experience internal and external validity. support good oral health behaviors. These approaches **Study Author** should be integrated into educational curricula. Interventions were delivered by lecture (3), virtual patient Brown BR, Ingleha

The key question: "Do professional educational experiences impact *providers* (dentists, hygienists and others) attitudes toward (willingness), or ability to treat individuals with I/DD?"

Methods

The systematic review included databases such as PubMed, as well as gray literature. Broad search terms were used to uncover interventions to improve both <u>access</u> to oral health and support good oral health <u>behaviors</u> in individuals with I/DD. Initial results yielded 4,854 articles. Title and abstract screening for articles that specifically address the I/DD population, that describe a measurable intervention with measurable outcomes, and that were published after 1990 resulted in approximately 400 articles for full text review, and 125 for data abstraction. To uncover the state of evidence and outcomes as they relate to the <u>educational exposure for</u> <u>allied dental health professionals</u>, a targeted key question, on education for treatment and prevention directed at providers, was developed. This focused the review on the educational outcomes and the development of the evidence base for educational interventions.

models (2), case base learning (1), service learning (1) and combination video/text based (1). Length of interventions ranged from a 45 minute lecture to an 8 hour practicum. Sample size ranged from <u>23 to 568</u> and studies surveyed a variety of student and professionals.

Stu Dei Ind Ort providers

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Results

Study Subjects	# of Studies
udents (dental, hygiene)	6
entists	3
dividuals with I/DD	2
thodontists, Hygienists, Nurse Practitioners, Other health	1 each

Ten of the 15 studies were surveys, measuring 38 total outcomes.

Outcomes	# of articles containing the outcome
rriculum related (i.e., content, satisfaction)	9
ucation/Knowledge (i.e., gained, experience)	6
itudes/Beliefs (i.e., perception)	5
havior Management (i.e., knowledge, experience, mfort)	4
mfort level (i.e., comfort treating)	3
pectation (i.e., of individuals with I/DD capabilities)	2
ner: communication skills, complete training, operation, awareness, etc.	1 each

Dehaitem MJ, Ridle Dellavia C, Allievi C Delucia LM, Davis E

Hahn JE, FitzGerald Harper DC, Wadsw

Humza Bin Saeed

Jones ML, Boyd LD

Keselyak NT, Simme

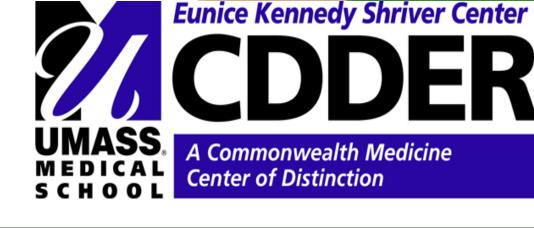
Kleinert HL, Sander Challman S Mabry CC, Mosca N

Meurs D, Rutten M Nagarajappa R, Tak Sanders C, Kleiner

Subar P, Chávez EN

Conclusions

Exposure to individuals with I/DD, whether that be through curriculum, practical experience, or other means has a positive impact on a providers attitudes toward treating individuals and including individuals with I/DD in their practice. There are limited studies to describe the impact of educational interventions on this population. Further research and evaluation is needed.



	External Validity	Internal Validity
art MR	Good	Good
ey K, Kerschbaum WE, Inglehart MR	Good	Fair
C, Ottolina P, Sforza C	Fair	Fair
EL	Poor	Good
d L, Markham YK, Glassman P, Guenther N	Good	Fair
worth JS	Good	Good
M, Daly B, Newton JT	Good	Good
)	Poor	Fair
ner-Beck M, Bray KK, Gadbury-Amyot CC	Good	Fair
rs C, Mink J, Nash D, Johnson J, Boyd S,	Poor	Good
NG	Poor	Fair
I, de Jongh A	Good	Good
k M, Sharda AJ, Asawa K, Jalihal S, Kakatkar G	Fair	Good
ert HL, Boyd SE, Herren C, Theiss L, Mink J	Good	Good
M, Miles J, Wong A, Glassman P, Labarre E	Good	Fair