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Delivering Flexible Education and Training to Health Professionals: Caring for Older Adults in Disasters

Brian A. Altman, PhD; Kelly H. Gulley, MPH; Carlo Rossi, MDCM, MTM&H, CCPF; Kandra Strauss-Riggs, MPH; Kenneth Schor, DO, MPH, FAAFP

ABSTRACT

The National Center for Disaster Medicine and Public Health (NCDMPH), in collaboration with over 20 subject matter experts, created a competency-based curriculum titled Caring for Older Adults in Disasters: A Curriculum for Health Professionals. Educators and trainers of health professionals are the target audience for this curriculum. The curriculum was designed to provide breadth of content yet flexibility for trainers to tailor lessons, or select particular lessons, for the needs of their learners and organizations. The curriculum covers conditions present in the older adult population that may affect their disaster preparedness, response, and recovery; issues related to specific types of disasters; considerations for the care of older adults throughout the disaster cycle; topics related to specific settings in which older adults receive care; and ethical and legal considerations. An excerpt of the final capstone lesson is included. These capstone activities can be used in conjunction with the curriculum or as part of stand-alone preparedness training. This article describes the development process, elements of each lesson, the content covered, and options for use of the curriculum in education and training for health professionals. The curriculum is freely available online at the NCDMPH website at http://ncdmph.usuhs.edu (Disaster Med Public Health Preparedness. 2016;0:1-5).

Key Words: disasters, older adults, education, training, health professionals, curriculum

BACKGROUND AND PROCESS

People 65 years of age and older represent approximately 14.1% of the population in the United States as of 2013.1 According to the US Census, between 2012 and 2050, the United States will experience considerable growth in its older population,2 which is expected to grow to represent 21.7% of the total population by 2040.3 Following disasters, older adults are vulnerable to disproportionately higher morbidity.4 Numerous studies demonstrate that disasters impact older adults more than other portions of the population.5-10 With these statistics in mind, education and training for health professionals to care for older adults is important.11 Moreover, the Institute of Medicine’s report, Retooling for an Aging America: Building the Health Care Workforce, reinforces that “the education and training of the entire health care workforce with respect to the range of needs of older adults remains woefully inadequate.”12

In response to a request from the US Department of Veterans Affairs, the NCDMPH initiated the development of this curriculum. A key guiding document about general disaster health topics, please visit the NCDMPH website for additional resources. This curriculum highlights particular issues and considerations for caring for older adults before, during, and after disasters.
Flexible Education: Caring for Older Adults in Disasters

in the initial identification of curriculum topics was the
Curriculum Recommendations for Disaster Health Professionals: The Geriatric Population. A curriculum topic outline was
developed with input from subject matter experts. Subject
matter experts were then invited to author one or more lessons
from this topical outline. The lessons contain common ele-
ments based on a lesson template provided by NCDMPH. A
peer review process was a key component of lesson develop-
ment. Multiple authors and additional expert reviewers pro-
vided feedback on the lessons. Authors incorporated feedback
and completed lessons for the final curriculum.

FIGURE 1
Venn diagram describing the content focus of Older
Adults in Disasters: A Curriculum for Health
Professionals.

TABLE 1
List of Modules and Lessons in Caring for Older Adults in Disasters: A Curriculum for Health Professionals

<table>
<thead>
<tr>
<th>Module 1: Curriculum overview and background on the older adult population</th>
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<tr>
<td>1-1 Curriculum overview</td>
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<td>1-2 Background on older adult population</td>
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<tr>
<th>Module 2: Conditions present in the older adult population that impact their disaster preparedness, response, and recovery</th>
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<tr>
<td>2-1 Chronic and acute conditions</td>
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<td>2-1 Psychosocial</td>
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<td>2-3 Medication</td>
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<td>2-4 Assistive technology</td>
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<tr>
<th>Module 3: Disaster types: Special considerations for the older adult population in disasters</th>
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<tbody>
<tr>
<td>3-1 Disaster types</td>
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<tr>
<th>Module 4: Caring for older adult populations during the disaster cycle: Preparedness, response, recovery, and mitigation</th>
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<tr>
<td>4-1 Working with caregivers</td>
</tr>
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<td>4-2 Access and functional needs</td>
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<td>4-3 Public health considerations</td>
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<tr>
<td>4-4 Clinical considerations</td>
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<td>4-5 Psychosocial</td>
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<td>4-6 Disaster human services</td>
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<tr>
<td>4-7 Preparedness issues</td>
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<td>4-8 Response issues</td>
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<td>4-9 Recovery issues</td>
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<th>Module 5: Setting: Special considerations for the older adult population</th>
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<tr>
<td>5-1 Hospital</td>
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<td>5-2 Ambulatory</td>
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<td>5-3 Hospice</td>
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<td>5-4 Skilled nursing facilities and assisted-living facilities</td>
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<td>5-5 Older adult in the community/at home</td>
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<td>5-6 Pharmacy</td>
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<th>Module 6: Ethical legal: Special considerations for the older adult population</th>
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<td>6-1 Ethical legal</td>
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<th>Module 7: Capstone activity</th>
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<tbody>
<tr>
<td>7-1 Capstone activity</td>
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CONTENT COVERED IN THE CURRICULUM

Table 1 outlines the modules and lessons within this curriculum. The first module introduces the curriculum and provides background on the older adult population. The second module describes conditions present in the older adult population that impact their disaster preparedness, response, and recovery. The focus then shifts to how older adults are affected by particular types of disasters in module three. Module four provides an in-depth treatment of the issues health professionals should consider when caring for older adults before, during, and after disasters. The focus of module five turns toward specific considerations for particular settings in which older adults live and receive care. Module six outlines ethical and legal considerations when caring for older adults in disasters. The curriculum concludes in module seven with a capstone activity described further below.

HOW THE CURRICULUM CAN BE USED

This curriculum is designed to be used in a variety of settings such as in classroom teaching for health professionals, for continuing professional education, or for preparedness training within organizations. Educators and trainers may elect to use the curriculum in whole or in part based on the needs of their learners and organization and the time available. Educators can customize the curriculum by selecting lessons, or parts of lessons, to teach; by adapting activities as needed; or by adding additional content appropriate for their setting. Content can be taught to learners of one health profession or in interprofessional settings. The lessons include content outlines, which allow trainers flexibility in their teaching style to include lectures, discussions, readings, case vignettes, and other teaching methods.

For those educators using a competency-based approach, the competency mapping within the lessons can be utilized within various professional development settings to enhance learner competence in disaster health. The lessons include learner assessment strategies, which educators and trainers can use to gauge acquisition of learner knowledge, skill, and attitudes. In designing the curriculum, we were cognizant of the need for breadth of content and for flexibility for use in a wide range of environments with a variety of resources and time constraints.

CAPSTONE EXCERPT

An excerpt of the final capstone activity in the curriculum is included in Box 1. This activity can be used by learners as part of the curriculum or as a stand-alone training tool. Trainers can adapt the content as necessary for their learners, organizational setting, time available, and training needs.

NEXT STEPS AND FUTURE DIRECTIONS

To access and utilize the entire curriculum or parts of the curriculum, please visit the NCDMPH website at http://ncdmph.usuhs.edu. The curriculum is available at no cost and

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BOX 1

LESSON 7-1. CAPSTONE ACTIVITY EXCERPT

Intended Audience of Learners
A broad range of health professionals who may work with the older adult population.

Learning Objective
At the end of this lesson, the learner will be able to:
7-1.1 Describe planning and logistics considerations for caring for older adults in disasters.

Estimated Time to Complete This Lesson Excerpt
60 minutes

Suggested Learner Activities for Use in and Beyond the Classroom

Part 1:
In this section, learners will consider the implications for planning and logistics of caring for older adults in disasters.

Scenario
Either individually or in small groups with each small group doing the following together, imagine you are going to plan a meeting to discuss various planning and logistical implications of what you have learned so far in this curriculum. Use the prompts below to assist your learners in completing this section if necessary.

- Who would be present at this meeting and why is their presence important?
  - People in your workplace? People in your professional association? People in other professions? People in your community? Regional, state, county, and local systems of care? Health care coalitions?
  - Please consider any of the following possible stakeholders (adapted from1–3):
    - Health care providers and systems (hospitals, clinics, rehabilitation centers, mental health facilities, home care agencies, skilled nursing facilities, health care coalitions)
    - Public health
    - Federal, state, local, tribal, and territorial government agencies
    - Public safety and security (fire, law enforcement, emergency medical services)
    - Housing agencies
    - Transportation and sanitation infrastructure
160 with no required registration. In the future, we intend to add
161 supplementary resources for educators and trainers that are
162 associated with individual lessons. A pilot process for the
163 curriculum is currently under way. We hope that this curri-
164 culum and its use will enhance the care of older adults in
165 future disasters.

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