



Lecture Code : DRC01-S3

Session Name : 재난대응위원회(Disaster Response Committee)

Session Topic : -

Date & Time, Place : June 21 (Sat) / 12:50-14:50 / Room 4 (Room 203)

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## **Development of Standardized Educational Videos for Disaster Response in Dialysis Units: A Comprehensive Approach**

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1. Introduction (1) The Special Nature of Dialysis Units • High prevalence of elderly of mobility-impaired patients • Extensive use of electrical equipment increased the risks of fire (2) Challenges During Fire Emergencies • Difficulties in initial suppression and safe evacuation • Limitations of generic hospital fire guidelines (3) Goals • Share the development process of the tailored fire response manual and training video • Discuss educational outcomes and future improvements 2. Background and Rationale for Manual Production (1) Why It Was Developed • The urgent need to safeguard dialysis patients and prevent catastrophic fire incidents • Addressing the shortcomings of existing guidelines by reflecting the latest fire codes and field expert opinions (2) Key Background Points • Unique risk factors in dialysis units (e.g., electrical equipment and patient evacuation difficulties) • The importance of establishing dedicated "self-help firefighting teams" with clear role division (3) Multidisciplinary Collaboration • Joint effort among nephrologists, fire safety and disaster management experts, emergency medicine specialists, and video/education professionals 3. Manual Development Process and Key content (1) Summary of the Development Process • Preparation Phase: Situation analysis and review of international/domestic guidelines, Conducting expert interviews and surveys • Content Development: Drafting the manual, incorporating checklists and flow diagrams, Receiving feedback from field experts and refining the content • Final Production and Distribution: Publishing the manual in print and electronic formats, Piloting training sessions and incorporating final feedback (2) Key Content Areas • Fire Prevention: Regular checks (emergency exits, fire extinguishers, electrical equipment, etc.) • Initial Response Procedures: Steps for using fire extinguishers and the "Clamp and Cut" method for safely disconnecting dialysis equipment • Evacuation Procedures: Patient categorization and evacuation routes (see Table 2 in the manual) • Roles of the Self-Help Firefighting Team: Clear tasks for the command, emergency communication, initial

suppression, and evacuation guide teams

4. Educational Video Production Overview and Objectives (1) Background for Video Production • Building on the Manual 1-2 edition to improve real-world fire response training • Integrating theoretical knowledge with simulated practice (2) Production Objectives • Clearly convey rapid, effective response procedures during a fire incident • Ensure that both medical staff and patients understand their roles as shown in the scenario

5. Video Scenario - Detailed Breakdown (1) Introduction of the Self-Help Firefighting Teams • Detailed explanation of each team's roles (Command, Emergency Communication, Initial Suppression, Evacuation Guidance) • For smaller healthcare facilities, describe how roles may be combined or rotated. (2) Fire Outbreak and Initial Response • Simulation footage • initial suppression by using fire extinguishers and indoor hydrants • Command team's rapid situation assessment and emergency communication (3) Evacuation Simulation • Re-enactment of patient evacuation based on categorized patient types • Emphasis on designated routes, emergency lighting, and the layout shown on the evacuation map (4) Dialysis Machine Disconnectio Procedure • Demonstration of the "Clamp and Cut" method for safely disconnecting the dialysis machine and arteriovenous fistula

6. Future plans • Regular update the manual and video • Strengthen collaboration with other healthcare institutions

**Keywords:** Dialysis unit, Fire Response, Disaster Response Training, Self-help Firefighting Team, Educational Video