

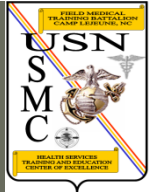
MEDICAL SUPPORT FOR

MILITARY OPERATIONS IN URBAN TERRAIN (MOUT)





OVERVIEW



- MOUT Defined
- Health Threats in MOUT
- Casualty Evacuation
- Operating in MOUT Environment





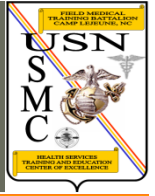
LEARNING OBJECTIVES

Please Read Your
Terminal Learning Objectives
And
Enabling Learning Objectives





DEFINITION of MOUT



- Background
 - Battles fought on urbanized terrain
 - Beirut, Panama City, Mogadishu, Iraq
 - Quick adaptation to each mission, terrain, and situation is necessary



DEFINITION of MOUT



- Definition
 - Military actions planned and conducted on a terrain where man-made structures impact the tactical options available to the commander.
 - This terrain is characterized as a four-dimensional (air, buildings, streets, and subways) battlefield with the following features:





HEALTH THREATS OF MOUT



HM3 James D. Cabrera, left, and Cpl. Luis A. Valadez, 1st Battalion, 12th Marine Regiment, scan the area around a building near Combat Outpost Golden, Iraq, Sept. 2007.



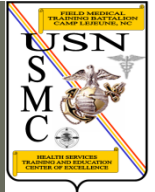
HEALTH THREATS OF MOUT



- The medical threat in MOUT presents unique challenges to Health Services personnel.
- Each of the tactical considerations requires a parallel plan for medical response.
- Combat in urban terrain can complicate the ability of medical personnel to provide timely, sustainable support.



HEALTH THREATS OF MOUT



- Expect increased casualties
- Units may be spread out across large areas
- Unit training in self-aid and buddy-aid





HEALTH THREATS OF MOUT



Potential Health Threats of MOUT include.

- Isolation and reduced response to casualties
- Imposition of civilian casualties and refugees
- Undefined line of battle that delays medical treatment
- Mass casualty/casualty overload situations
- Communicable disease endemic to the area
- Lack of water and sanitation
- Combat stress
- NBC environment

HEALTH THREATS OF MOUT

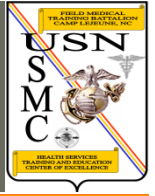
- Psychological Casualties
 - Due to lengthy exposure to combat situations
 - Prolonged fear
 - Be prepared to treat these casualties



Marines assigned to 3rd Battalion, 3rd Marine Regiment, search a house for insurgents, weapons caches and explosives during a patrol June 2006, in Barwana, Iraq.



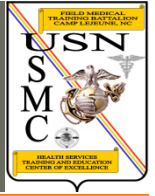
HEALTH THREATS OF MOUT



- Civilian Casualties
 - Prepare for large numbers of civilian casualties
 - Prepare for different age groups
 - Geriatrics
 - Pediatrics



HEALTH THREATS OF MOUT

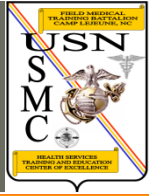


- Infectious Diseases
 - Animals: carry diseases (rats, mice, dogs)
 - People: may not have active immunization program in local area
 - Water: limited water supply places troops at increased risk of drinking unclean water





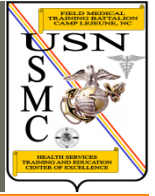
CASUALTY EVACUATION



- Casualty Evacuation
 - Can be difficult and time consuming
 - Ground evacuation requires heavy armor
 - Air evacuation is difficult

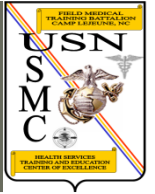


CASUALTY EVACUATION



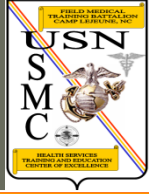
- Special Equipment
 - Finding casualties
 - Crumbled buildings
 - Vehicle crashes
 - Tools to help:
 - Axes
 - Cutting tools
 - Crowbars
 - Jacks
 - Ropes



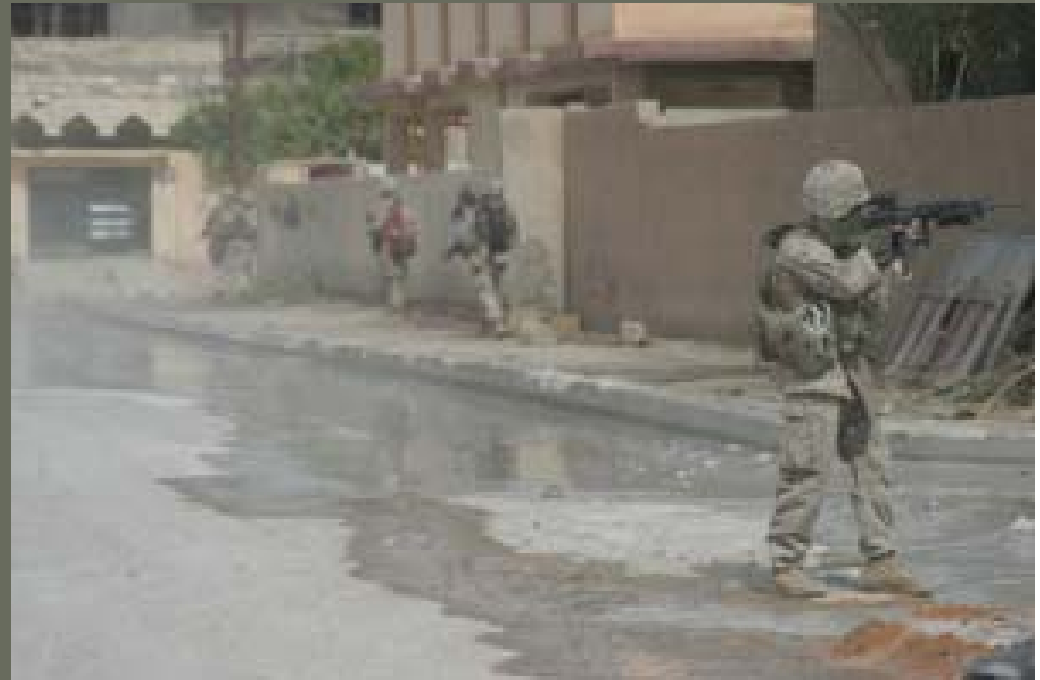




OPERATING IN A MOUT



- Terrain
- Rules of Engagement



AR RAMADI, Iraq – A Marine with 2nd Platoon, A Company, 1st Battalion, 5th Marine Regiment, posts security down a street during a patrol. **04/2005**



OPERATING IN A MOUT



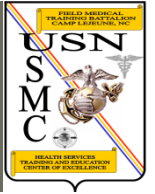
- Terrain
 - Enemy observation positions are likely
 - Assaulting forces can quickly become isolated, confused, and cut-off
 - Structures typically have multiple floors, rooms, and doorways



OPERATING IN A MOUT



- Rules of Engagement
 - May change daily or based on the situation
 - Designed to:
 - Avoid alienation of the local population
 - Reduce the risk of adverse world opinion
 - Preserve structures and facilities for future use
 - Preserve vital cultural facilities and grounds





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