1. Record Nr. UNINA9910449858203321 Fluid replacement and heat stress [[electronic resource] /] / Committee **Titolo** on Military Nutrition Research, Food and Nutrition Board, Institute of Medicine; Bernadette M. Marriott, editor Washington, DC.: National Academy Press, 1994 Pubbl/distr/stampa Descrizione fisica 1 online resource (254 p.) Altri autori (Persone) NesheimRobert O MarriottBernadette M Disciplina 616.989 Soggetti Dehydration (Physiology) Water-electrolyte imbalances Exercise - Physiological aspects Fluid therapy Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Study was supported by the U.S. Army Medical Research and Development Command. Report of the proceedings of a workshop held in February 1989. Committee chairman: Robert O. Nesheim. Nota di bibliografia Includes bibliographical references. ""FLUID REPLACEMENT AND HEAT STRESS""; ""Copyright""; ""Preface""; Nota di contenuto ""Contents""; ""Part I Executive Summary""; ""1 Committee Summary and Recommendations""; ""INTRODUCTION""; ""FINDINGS FROM THE WORKSHOP PRESENTATIONS""; ""AREAS FOR FUTURE RESEARCH""; ""RECOMMENDATIONS""; ""Part II Invited Papers""; ""2 Use of Electrolytes in Fluid Replacement Solutions: What Have We Learned From Intestinal Absorption Studies?""; ""INTRODUCTION""; ""METHODS""; ""WATER AND ELECTROLYTE ABSORPTION"": ""Glucose-Stimulated Na+ Absorption"": ""Fructose Versus Glucose""; ""ANION TRANSPORT""; ""EFFECTS OF **EXERCISE""** ""SUMMARY AND NEEDED RESEARCH"""RECOMMENDATIONS"": ""REFERENCES""; ""3 Formulation of Carbohydrate-Electrolyte

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""Reduced Plasma Volume and Increased Body Fluid Osmolality""; ""Increased Circulatory Strain""; ""Decreased Sweating Response""; ""Altered Electrolyte Distributions""; ""EFFECTS OF WATER AND SALINE FEEDINGS DURING PROLONGED EXERCISE""; ""Efficacy of Electrolyte Replacement During Prolonged Exertion"" ""Summary of Effects of Water and Saline Replacement on Homeostasis During Prolonged Exertion"""HOW IMPORTANT IS THE GASTRIC EMPTYING RATE OF A BEVERAGE CONSUMED DURING PROLONGED EXERTION"": ""EVIDENCE THAT MODERATELY CONCENTRATED CARBOHYDRATE-ELECTROLYTE SOLUTIONS ARE EFFECTIVE IN MAINTAININGa€?""; ""REFERENCES""; ""4 Considerations for Replacement Beverages: Fluid-Electrolyte Balance and Heat Illness""; ""INTRODUCTION""; ""SALT DEFICITS""; ""POTENTIAL OVERCONSUMPTION OF SALT""; ""CASE REPORT A: TEN HEATSTROKE PATIENTS": ""CASE REPORT B: HEAT EXHAUSTION IN PANAMA"" ""CASE REPORT C: HEAT EXHAUSTION AMONG RESERVISTS IN TEXAS"""" SCENARIO-SPECIFIC NEEDS""; ""SUMMARY""; ""REFERENCES""; ""Appendix 1 A CASE REPORT FROM FORT BRAGG""; ""Appendix 2 CASE STUDY FROM GRENADA""; ""5 Carbohydrate Supplements During and Immediately Post Exercise""; ""INTRODUCTION""; ""CARBOHYDRATE SUPPLEMENTS DURING EXERCISE""; ""Continuous Exercise""; ""Intermittent Exercise""; ""Summary""; ""CARBOHYDRATE SUPPLEMENTS IMMEDIATELY AFTER EXERCISE""; ""Glycogen Storage Immediately After Exercise""; ""Time of Postexercise Carbohydrate Consumption"" ""The Effect of Multiple Supplements and Different Amounts of Glucose Polymer"""Effect of Glucose Infusion""; ""Differences in the Simple Carbohydrates""; ""Summary""; ""REFERENCES""; ""6 Gastric Emptying During Exercise: Influence of Carbohydrate Concentration, Carbohydrate Source, an ...""; ""INTRODUCTION""; ""CARBOHYDRATE CONCENTRATION""; ""CARBOHYDRATE SOURCE""; ""EXERCISE INTENSITY"": ""INDIVIDUALITY OF GASTRIC EMPTYING RATES""; ""EFFECTS OF GASTRIC EMPTYING METHODOLOGY""; ""MILITARY APPLICATIONS""; ""REFERENCES"" ""7 Interaction of Water Bioavailability, Thermoregulation, and Exercise

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