

Advanced Instruments Osmometer Manual

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The Biochemical, Physiological, and Metabolic Evaluation of Human

Subjects in a Life Support Systems Evaluator and on a Liquid Food Diet Bernard J. Katchman 1967 A 6-week study with 4 students as volunteer subjects was conducted to evaluate their water, caloric, and protein requirements under simulated stresses of aerospace. The subjects spent 28 days in the Life Support Systems Evaluator; 2 subjects wore the MA-10 space suit, unpressurized, for 8 hrs a day. They ate a 1-cycle, 4 meal per day, fresh food diet and a 1-cycle, 4 meal per day, liquid food diet. The only variety in the fresh food diet was the meat and fruit served at each meal. This diet was highly

acceptable and did not show monotony even after 21 days. Flavors were the only variety in the liquid food diet: Cherry, vanilla, chocolate, and strawberry. This diet was unacceptable and monotonous, and less acceptable with time. The fresh food diet contained 81 g of protein, 164 g of fat, 166 g of carbohydrate, and 2329 k cal of energy. The liquid food diet contained 70 g of protein, 167 g of fat, 204 g of carbohydrate, and 2444 k cal of energy. The daily requirement of water was about 3300 ml on the fresh food diet and about 2500 ml on the liquid food diet. The liquid food diet was used less efficiently than the fresh food diet. Consequently, the subjects were in negative balance for calcium, potassium, and phosphorus although the concentrations of these elements in the diet were many times that found in the fresh food diet. The caloric value of

the diet could support only a 65 kg man without weight loss. All the clinical data including heart rate, blood pressure, and oral temperature were in the normal range and no significant differences were observed due to confinement in the Life Support Systems Evaluator or due to wearing the unpressurized MA-10 space suit. (Author)

The Biochemical, Physiological, and Metabolic Evaluation of Human Subjects During a Simulated GT-7 Mission

Bernard J. Katchman 1967

Four human male subjects were confined for six weeks during which time they participated in a simulated Gemini 14-day flight. They ate a diet of bite sized compressed foods for 30 consecutive days; 14 days were spent in a Life Support Systems Evaluator. This diet was organoleptically unacceptable. It was significantly less digestible than the fresh food diet and caused an increase in fecal void frequency and a significant increase in fecal mass. The protein in the diet

was sufficient to maintain the subjects in positive balance for nitrogen but the mineral content (except magnesium) was inadequate. The subjects were in negative balance for sodium, potassium, phosphorus, calcium, and chloride but in positive balance for magnesium. Although the caloric value of the diet was lower than anticipated, due to low digestibility of energy, weight loss in the chamber was at a minimum because only 32 kcal/kg were required to maintain initial body weight. Sweat losses in the chamber were lower than for the Controlled Activity Facility. This may be due to the fact that no bathing or clothing changes occurred during this period. If resorption of sweat does occur, then minimal personal hygiene may be a positive factor in minimizing sweat losses of nutrients. Under the conditions of these tests, 1500 ml/man/day of water were adequate. Water balance data and urinary 17-hydroxycorticoids attest to the low level of activity in the

chamber. Blood pressure, oral temperature, pulse rate, respirations, hematology, and blood chemistries were all in the normal range of clinical values. (Author).

The Biochemical, Physiological, and Metabolic Effects of Apollo Nominal Mission and Contingency Diets on Human Subjects While on a Simulated Apollo Mission

Bernard J. Katchman
1967 Four human male subjects participated in a 90-day experiment consisting of 60-day and 30-day confinement periods with a 5-day break between. The subjects were confined either to the controlled activity facility of the chamber of the Life Support Systems Evaluator at altitude wearing pressure suits unpressurized and pressurized at 3.7 psi. The subjects ate a fresh food diet, an Apollo nominal mission diet, or an Apollo contingency diet that provided 2200, 2500, and 900 kcal/day, respectively. The rod form of the contingency diet was the most acceptable from an organoleptic standpoint.

The tube form was more easily handled from a functional standpoint, although the formulation of the tube food as well as the tube itself needs to be improved to make it operationally more effective than at present. The subjects lost about 500 g/day of body weight while on the contingency diet of which about 50% is estimated to be water. About 40 g/day of body weight was lost because of protein catabolism. Blood levels of sodium, potassium, phosphorus, chloride, calcium, and magnesium were maintained in the normal range of clinical values. Physiologic measurements all were in the normal range of clinical values. However, the 17-hydroxycorticoids of the urine decreased to low normal and below normal ranges of clinical values. Three of the four subjects completed a simulated Apollo emergency mission wearing a pressure suit pressurized at 3.7 psi and on a 900-calorie contingency diet. There were no adverse effects upon their health and no

evidence that their capacity to function in a normal manner was in any way impaired.

(Author).

Laboratory Manual of Pediatric Micro-biochemical Techniques University of Colorado Medical Center. Department of Pediatrics 1960

Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office 1968

Manual for Laboratory Clinical Chemistry Albert Hanok 1969

Health Testing Instrumentation Guide 1971

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Clinical Biochemistry: Techniques And Instrumentation - A Practical Course John S Varcoe 2001-03-13 Clinical biochemistry is an analytical and interpretative science. The analytical part involves the determination of the level of chemical components in body fluids and tissues. The

interpretative part examines these results and uses them in the diagnosis of disease, the screening for susceptibility to specific diseases, and the monitoring of the progress of treatment. This book is designed to cover the major techniques and analytical instruments used in clinical biochemistry. Each chapter of this book is based on a specific technique, or techniques, with associated instrumentation. These are discussed in some detail. A historical introduction is included for most of the techniques, and the current uses of the techniques are presented. Following that is a series of practical exercises. The first exercises in most of the chapters are a general introduction to the technique, leading to those with a clinical bias. Where applicable, the clinical practical exercises are associated with a case history and/or the discussion of the relevance of the assay to diagnosis and prognosis and to the monitoring of recovery. Each chapter concludes with a selection of appropriate

references.

Laboratory Manual of Pediatric Micro- and Ultramicro-biochemical

Techniques Donough O'Brien 1962

Laboratory Instrumentation

Mary C. Haven 1994-10-28 The new edition of this widely-used sourcebook details the startlingly array of diagnostic equipment available in the medical laboratory of the nineties, and also covers maintenance and quality assurance for each type of instrument. This book includes 17 completely rewritten chapters and 7 new ones, on nephelometry and turbidimetry, gas chromatography, mass spectrometry, flow cytometry, automated immunoassay systems, automated blood bank systems, and physician's office laboratory instrumentation.

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Elementary Principles of Laboratory Instruments Leslie W. Lee 1978

Advanced Medical

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Clinical Laboratory Manual

St. Marys Hospital Medical Center 1975

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Manual

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