

SMEAT BIOMED-ECO PARAMETERS

AVAILABLE TO CREW PHYSICIAN AND FLIGHT SURGEON

(Preliminary)

1. ID (Subject, Experiment, Run, Date)
2. Experiment ID
3. Ambient Pressure
4. Ambient Temperature
5. ESS +10V dc
6. ESS -10V dc
7. Elapsed GMT
8. PP O<sub>2</sub>\*
9. PP CO<sub>2</sub>\*
10. CO\*
11. Dew Point/Humidity\*
12. Air Flow Speed\*
13. Trace Contaminant(s)\*
14. Heart Rate
15. VCG X-Axis
16. VCG Y-Axis
17. VCG Z-Axis
18. LBNPD Differential Pressure
19. Left Leg Volume
20. Right Leg Volume
21. Systolic Pressure
22. Diastolic Pressure
23. LBNPD Internal Temperature
24. Body Temperature
25. Ergometer Work Rate
26. Ergometer RPM
27. Vital Capacity
- 28.
29. O<sub>2</sub> Consumption
30. Minute Volume
31. CO<sub>2</sub> Production
- 32.
- 33.
34. Body Weight
35. Blood Osmolality
36. ECF (Extracellular Fluid) Volume
37. Total Body Water
38. Angiotensin II and Renin
39. ADH (Antidiuretic Hormones)
40. Parathyroid Hormone
41. Thyroxine
42. ACTH (Adrenocorticotrophic Hormone)
43. 17-Hydroxycorticosterone
44. Urine Electrolytes (Sodium and Potassium)

\* Parameters not included in SMEAT Medical Data

45. Urine Osmolality
46. Aldosterone
47. Epinephrine
48. Norepinephrine
49. Bone Density
50. Chromosome Count
51. Chromosome Type
52. Chromosome Break
53. Morphological Composition
54. Plasma Proteins
55. Alpha<sub>1</sub> Globulin
56. Alpha<sub>2</sub> Globulin
57. Beta Globulin
58. Gamma Globulin
59. Ig G (Presence)
60. Ig A (Presence)
61. Ig D (Presence)
62. Ig M (presence)
63. Quantation of Component 4.5s
64. Quantation of Component 7s
65. Quantation of Component 19s
66. Alpha I-Acid Glycoprotein
67. Alpha II-Antitrypsin
68. Alpha II-M Globulin
69. Haptoglobin
70. Ceruloplasmin
71. Beta C/Beta IA Globulin (C'3)
72. Transferrin
73. Ig G Quan.
74. Ig A Quan.
75. Ig D Quan.
76. Ig M Quan.
77. CRP (C - Reactive Protein)
78. Factor XIII
79. Muramidase
80. Lymphocyte Blastoid
81. RNA Lymph. Dist.
82. DNA Lymph. Dist.
83. RNA Lymph. Quan.
84. DNA Lymph. Quan.
85. RNA Lymph. Kinetics
86. DNA Lymph. Kinetics
- 87.
88. 59 Fe (Blood)
89. 51 Cr (Blood)
90. 14C (Blood)
91. 125I (Blood)
92. Red Cell Production
93. Red Cell Mass
94. Red Cell Destruction
95. Red Cell Life
96. Plasma Volume
97. H<sub>2</sub>O<sub>2</sub> Lysis
98. Memb S-s, S-H

99. Methemoglobin
100. G-6-PD
101. Glyceraldehyde 3PO4-dehyd
- 102.
103. Hexokinase
104. Phosphogyl Kinase
105. Acetylcholinase
106. Glutathione Reductase
107. Pyruvate Kinase
108. Phosphoglyceric Kinase
109. Reduced Glutathione
110. ATP
111. Lipid Peroxide Level
112. RBC
113. WBC
114. Platelets
115. HCT
116. Hemoglobin
117. Reticulocyte
118. Diff. Morphology
119. RBC, Crit. Volume
120. RBC Volume Dist.
121. RBC Acid Frag.
122. RBC Osmotic Frag.
123. Hemoglobin Char.
124. Hemoglobin Elect. Mobil.
125. RBC Age Profile
126. Potassium RBC, Intra Cell
127. Single Cell MP
128. RBC Ceroid Assay
129. RBC RNA Prot. Dist.
130. RBC Elec. Dist.
131. Memb Ultra Struct.
132. Cellular Ultra Struct.
133. Food Intake/~~R~~esidua and Appetite\*
134. Water Intake/Day\*
135. Urine Output/Day\*
136. BM Output/Day\*
137. Calory Intake\*
138. Crew Chief Complaint(s)/Problem(s)\*
139. PE Findings (Subjective and Objective) and Dx\*
140. Rx (including medication) and Response
141. IMSS Use and Follow-up Plan\*
142. Crew Speech/Mood/Motivation\*
143. Crew Performance Surveillance (TV)\*
144. Crew Microflora\*
145. Chamber Microbial flora\*
146. Aerosol Analysis Result\*

\* Parameters not included in SMEAT Medical Data