

B. P.

1. ~~Normal Physiology~~ Introduction

a. Trivia vs Important -

b. Changes $\frac{1}{p}$ Flt.

1- orthostatic intol

2- work "

3- instability

4- no vestib.

5- arrhythmia comments

c. ~~#~~ concern on future flts. -

2. Normal Physiology

a. circulatory sys -

~~arterial~~ heart

b. arteries & capillaries

c. Vv.

d. O_2 Capacity

e. ~~Volumes~~

Cardiac output

f. blood volume

3. Effects of $\bar{w}$

a- shifts of fluid

~~b- legs~~

~~1. gravity effects~~

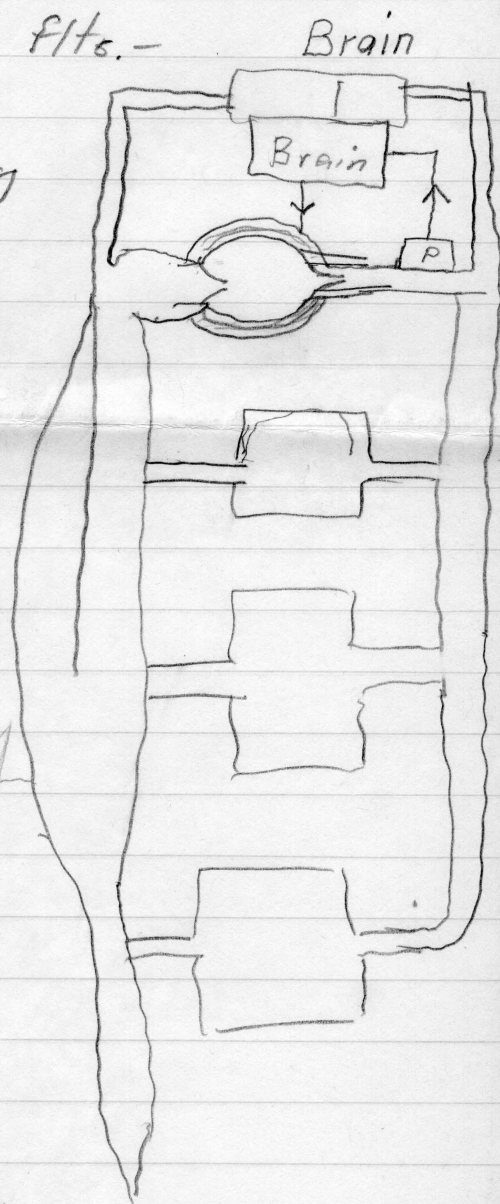
b - Anthropometric changes

1. effects -

Vital Cap -

c - Leg. Veins

anatomy, m.p.



d- Compliance -

e- mus - pump -

f- fluid distribution -
effects -

g- future
Counter measures

4 Summary

$\Delta HR \times \Delta P.P.$

$\Delta Time$ (at Press)	ΔP	HR	ΔHR	LV	ΔLV
-1. 0.5	0	60	—	.27 ³	—
+ .5	-8	?	?	1.14	+ .87 ^{.9}
+ .5	-16	60	0	1.70	1.43 ^{.4}
+ 4.5	-30	62	+2	2.43 2.30	1.16 ^{.2}
+ 4.5	-40	64	+4	3.6	3.3
+ 4.25	-50	67	+7	4.9	4.6