Dessure Compensation for asm movement position in seconding. If the B.P. recordings must be made with the arm in all position then compensation schemes are possible. A differential strain resented on the var arm a weighted strain gauge can be mounted on it at the center of axis engineering, not anatomic terminology) of rotation of the arm, about the shoulder joint. The weight would correspond to length of the liquid column from the notation point to the cuff level. The strain gauge would be sensitive only to forces in the certical plane such that with the arm harrying cuff at ventricular level no compensation

will occur as the angle of the arm is increased to vertical increasing force corresponding to the tilling of a liquid column will occur. A second such compensation was for the equilibralent contricular- seis column will be required for compensation of the body through a vertical æxis say lying down as standing on ones head. Atthe The compensating voltages would correct atrain pressure strain gage voltages before recording. Although this is relatively stright forward it may be work asking if the additional complexity will be justified in the probable made of operation imposed by cuff or K- sound measurement of BP.

Such a system will I be limited. to the amount of nactivity allowed during measurement, Although physiological

psychological activity feedback to the subject must be minimized if practical results are to be obtained he should stop any vigorous activity is the arm of in this case simply lowering the arm to table level is by the side would reduce the error to little more than 5 mm. Hg- in the worst case-One could postulate activity such as climbing

when the cycle occurs but again the machine will require cesistion of activity.

Such compensation in.