Dear Bruce Oleans read all of this, wen the parts you have always ignored. First the B.P. recorder. I have enough information to make some definite statements. Before that let's understand what I am trying to do at UTMB and things I can a cont do. First UTMB is a clinically oriented place, Typical of the conservatives you sell to. Dr. John If allace who I am working it is a professor of Med. in Cardiology. He spent a year & Laragh in n.21. probably the leading hypertension man in the 21.S. It alloce is established, aggressive and above all ethical - not a hot shot on the make. Ide publishes a good bit but à a reason more impartant than polishing his reputation He is por building a hypertension clinic which I am

good to spendage day a week in and also a

research effort which I will be more active in. For the B.P. recorder, we will first of all document what it will and won't do. I assume you will correct its basic defeats of which there is at least one. After reaching a paint that is

701 COWARD'S CREEK ROAD (hopefully next week) not embarrassing to the instrument, we will start a series to compare in a clinical fashion the present & affice visiter to one or more prolonged recordings on sufficient patients to provide a publication. You will of course receive the data as soon as gathered. after this initial break-in period of hope to get almost a second a day, This is your most basic med application After that there or concurrently with it I plan to integrate these BP sesults with other investigations (to be described). Also, two other pulinning basic studies was supplied 1) monitoring the effects of therapy + 2) monitoring suspected or at sist normale, Bruce, this is and must be a past of a continuing effort and can't be a hit + sun aperation. The cost of this inducet program will be selatively small; supplies, sunning the records, etc. This is not a 'mac special sales paper effort. It will give you I) the evaluation you need and from someone who understands the system 2) will provide sales infor and the paper which takes time 3) a series of improvements & other devises to enhance the use of this . If you onversion a quick squeeze for a few draps to on a true basis for abvious reasons.

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Now lets look briefly at what I know about the instrument: 1. It is a fine beginning - the pumping & control & pressure readout one all a big jump whead 2. It appears to work (on the small sample seen) in hypertensives but will not work on normals at rest - sensing mechanism at fault 3. Its logic has faults some of which you have seen, most of which can propally be designed out (next model) - one fault not mentioned is That everyone has respiratory paradof - a change of blood pressure a resperation. a best of two will be heard at a higher pressure (one subject was 12 mm, or grester) BP. of the potential for apparent error & instantaneous random 4. It must be connected or Insp. correlated & other objective. Respiration indicators of the patients state to allow meaningful data to be collected - Critaria for hypertension is the pt. seated - you will collect a mass of normale as hypertensives if you record ? them standing active etc. This must be the and as were dactive mor restinged for you they

5. It currently is complicated by I bits & pieces & procedures which need a good systems analysis and design review.

I have enclosed separately to you (Cliff requested all verification data available which is enclosed (#1/4) some detailed data + comments. According to Bay I will have the 2° unit here with a modified filter / trigger cht in approx. a who of the present unit will be returned. I would suge you to proceed slowly a elaborate production design and not to use a single fixed circuit board but rather use sub circuits on input, trigger + timing for the sensor/trigger will never le perfect s undoubtably wont changes. I dogic can be greatly emproved dut this will be saved til July. There will be a need for a stand alone device which could have a small solid state memory and simple readent platter which will sell to many people who don't need the whole set up.

in this project and (BP research + development) and find that it is at an even more primitive state than destroy in the 50's - I can tall stay with this and make contributions.

It hile B.P. is the most significant or obvious element it is only one part of the effort. He can do each other a lot of good here. It hile I will do everything possible that is otheral to help your commercial efforts there has to be more to it than just getting a new device out by sept. salking first about the markine I have & efforts to get data as soon as possible of we get a quick fix on it, we should have 20-30 pts. sun in 60-75 days from now and a decent report but this is the start of a program for us at UTMB for a good bit of effort will have been built around this. He can't build on hit and sun son should you choose your collaborators on such a horsis - in short I need some soit of a commitment for a B.P. morder for an indefinite period with readouts provided. no peoples salaries, etc. just the gear & supplies of maintenance support - It.