

June 4, 1965

MEMO

To: Dr. Taylor, Dr. Simonson, Dr. Keys
From: Henry Blackburn
Re: Otto Schmitt Application

We have not yet been able to obtain A-D conversion from the biophysics unit and have made our initial studies via the averaging and conversion facilities of Dr. Rautaharju's C. A. T. In our ECG work the sole use of the biophysics equipment so far has been the tedious packing of digital data on magnetic tape through their typewriter which will read punched tape at a slow rate.

The potential of the unit to help us is, of course, considerable. Since our obligations are not great in this application we have nothing to lose. We have gained very little so far, but there is a realistic possibility that the equipment will function this year.

As a direct service we would now like averaging and A-D conversion with edited magnetic tapes and punched cards on these data now in hand.

Rest and exercise ECGs, single chest lead, standard exercise test in 1500 R. R. men.

Rest, exercise, and post-exercise ECGs, 3 simultaneous orthogonal leads, in 400 Finns, a sample of men in two areas.

Rest ECGs, 3 simultaneous orthogonal leads in a 1 in 4 sample of the Montegiorgio group.

Our preliminary work on defined normals and abnormals from the Finn data, using a T₂ technique of separation with coefficients describing the S-T-T area suggest that rest is as good a discriminant as exercise or post-exercise periods. Mr. Parlin and Dr. Rautaharju have successfully developed these analytical programs. We are now in a position to apply them to other defined and unknown populations.