

2) Henry Blackburn, about August 20 - Oct. 5, 1964--Minneapolis-Helsinki (via Prague?) - Joensuu - Helsinki - Minneapolis, with possible brief stops in Holland and/or Yugoslavia and/or Italy to meet with the local electrocardiographers and clinicians who are involved in the International Cooperative Study on Heart Disease. Dr. Blackburn will be responsible for sessions on exercise theory and applications to epidemiological studies, but is to act as chief cardiologist and coordinate in connection with the 5-year re-examination in Dalmatia, Slavonia, and Montegiorgio, Italy, as referee and adviser on electrocardiographic classification and of cardiac diagnosis for epidemiological purposes, but will be mainly occupied in the field in Finland in working with Dr. P. Rautaharju on the application of tape-computer systems to exercise test in which all clinically healthy subjects will participate. Air fare \$110, 40 days per diem \$510, misc. \$40, total = \$1480.

Parco Grifeo 30 (i)  
Naples, Italy  
June 22, 1964

Dr. William H. Goldwater  
National Heart Institute  
National Institutes of Health  
Bethesda 14, Maryland  
U. S. A.

In reference to HE-04697,  
Travel

Dear Bill:

3) Dr. Pentti Rautaharju, about August 20 - October 1, 1964--Halifax, N.S. - At this distance from my real office and files, I must ask you advice about travel authorizations for which I may have some answers in Minnesota. First, what is the dollar amount in the travel category for HE 04697 available for the job in Finland? Second, may I now ask for specific authorization to make each of the travel expenditure items?

There are the needs:

- 1) Ancel Keys, August 16 - September 16, 1964--travel Minneapolis-Helsinki via Prague, Helsinki - Joensuu (Finland), Helsinki-Minneapolis via Rome-Naples. The main reason for this travel is the 5-year re-examination work in Finland but efficient and economical scheduling also provides, at small extra cost, for
  - a) participation in the technical conference on physical activity in relation to cardiovascular disease (Helsinki, Aug. 27-29),
  - b) meeting with collaborators in the International Cooperative Study on Epidemiology of Heart Disease to review mss. for publication, agree on schedules of work for 1965, examine 5-year follow-up data from Dalmatia and Slavonia, discuss possibilities of 10-year follow-up re-examinations, etc. (Aug. 23-27), c) participate in European Congress on Cardiology and associated meeting of Research Committee of the International Society of Cardiology (Prague Aug. 18-23) local per diem not to be charged to U.S. P.H.S., d) continue overseeing laboratory work in branch laboratory HQ at Naples and work on program for 5-year re-examination at Crevalcore and Montegiorgio, Italy, in the first half of 1965 e) possible brief stops en route Helsinki - Rome in Holland and/or Yugoslavia to meet with local committees and collaborators in this same overall program. Air fare, ca. \$930, 25 days per diem \$375, misc. \$35, total = \$1340.

- 2) Henry Blackburn, about August 20 - Oct. 5, 1964--Minneapolis-Helsinki (via Prague?) - Joensuu - Helsinki - Minneapolis, with possible brief stops in Holland and/or Yugoslavia and/or Italy to meet with the local electrocardiographers and clinicians who are involved in the International Cooperative Study on Heart Disease. Dr. Blackburn will have an important role in the conference on physical activity (he and Dr. Rautaharju will be responsible for sessions on exercise tests and on computer-EKG theory and applications to epidemiological studies), but the primary mission is to act as chief cardiologist and coordinator on internal medicine in connection with the 5-year re-examinations in Karelia (Ilomantsi, near Joensuu) and in West Finland. Dr. Blackburn acts as referee and adviser on all questions of electrocardiographic classification and of cardiac diagnosis for epidemiological purposes, but will be mainly occupied in the field in Finland in working with Dr. P. Rautaharju on the application of tape-computer systems to exercise test in which all clinically healthy subjects will participate. Air fare ca. \$930, 40 days per diem \$510, misc. \$40, total = \$1480.
- 3) Dr. Pentti Rautaharju, about August 20 - October 1, 1964--Halifax N.S. - Helsinki - Joensuu and return. Dr. Rautaharju's actual travel expenses will be largely borne by other funds but an item for subsistence at the rate of \$15 per diem in Helsinki (5-6 days) and \$12 per diem in Ilomantsi should be provided, the total of Joensuu being not over \$450.  
Dr. Rautaharju is one of the world leaders in modern tape-computer developments in electrocardiographic theory and applications. He had the main E.C.G. responsibility in the initial examinations of the men in Finland in 1959 but in the 1964 program he will be concentrated on the tape-computer work and telemetered exercise tests to be applied to all subjects, bringing with him from Halifax and Minneapolis a large amount of newly developed equipment for this work. The regular E.C.G. responsibilities in the program, including recording and classifying the 12-lead E.C.G. on every man, will be shared by Dr. Kallio of Finland, Dr. Ivan Mohacek of Zagreb, Dr. Bruno Imbimbo of Naples and others (the non-Finnish doctors are unable to be away from their regular positions in their own countries for more than a few weeks each).
- 4) Dr. Ivan Mohacek, August 25 - Oct. 1, 1964--Zagreb - Helsinki - Joensuu and return. As in the case of Dr. Rautaharju, it is proposed that only field subsistence costs be provided for Dr. Mohacek, i.e. not over \$450 for a total of about 35 days. Dr. Mohacek's responsibilities were mentioned above. Next to Dr. Blackburn, Dr. Mohacek has had more experience than everyone else in the recording and objective classification (Minnesota Code) of the electrocardiogram, having taken a major responsibility in this program in Crevalcore (1960) and Corfu (1961), besides the work in Dalmatia and Slavonia in 1958 and 1963.

5) Dr. Bruno Imbimbo, about October 1, - Nov. 5, 1964--Naples-Helsinki - Turku and return. It is planned that Dr. Imbimbo have the same responsibility in West Finland that Dr. Mohacek will have in Karelia and that, similarly, only field subsistence and not transportation cost will be charged for a total of 3 days in Helsinki, at \$15 per diem, and 30 days in West Finland at \$12 per diem, or a total of \$405. Dr. Imbimbo discharged these responsibilities very well for 3 weeks in Dalmatia in the 1963 follow-up and has had extensive experience in this E.C.G. recording and classification in our program in Italy as well as in the U.S.A.

You will note that I have long had agreement with the Business Office of the University of Minnesota to provide \$15 per diem for stay in major cities and 12\$ per diem in villages and small towns where hotels are cheaper. These provisions will be maintained in the travel mentioned above.

May I take it that above I have provided what is necessary to request authorization for such travel? I am sending a copy of this letter to my office in Minneapolis so that endorsement, if needed, may be given by the officers of University of Minnesota.

Sincerely,  
As this letter goes to your office and files, I must ask you advice about travel authorizations for which I may have some answers in Minnesota. First, what is the dollar amount in the travel category for HR 2459, available for this job in Finland? Second, may I now ask for specific authorization to make each of the travel expenditure items?

There are the needs:

- 1) Ansel Keys, August 26 - September 15, 1964--travel Minneapolis-Helsinki via Prague, Helsinki - Joensuu (Finland), Helsinki-Minneapolis via Rome. Ansel Keys, Director is the 5-year re-examination work in Finland but efficient and economical scheduling also provided, at small extra cost, for a) participation in the technical conference on physical activity in relation to cardiovascular disease (Helsinki, Aug. 27-29), b) meeting with collaborators in the International Cooperative Study of Epidemiology of Heart Disease to review progress for publication, agree on schedules of work for 1965, examine 5-year follow-up data from Dalmatia and Slavonia, discuss possibilities of 10-year follow-up re-examinations, etc. (Aug. 23-27), c) participate in European Congress on Cardiology and associated meeting of Research Committee of the International Society of Cardiology (Prague Aug. 15-23; local per diem not to be charged to U.S. P.H.S.), d) continue overseeing laboratory work in branch laboratory H4 at Naples and work on program for 5-year re-examination at Crevolcore and Montegiorgio, Italy, in the first half of 1965, e) possible brief stops en route Helsinki - Rome in Holland and/or Yugoslavia to meet with local committees and collaborators in this same overall program. Air fare, ca. \$930, 25 days per diem \$375, misc. \$15, total = \$1340.