

BETA-BLOCKER HEART ATTACK TRIAL  
DATA TAPE CODING MANUAL

June 1984

INSTRUCTIONS FOR THE BETA-BLOCKER HEART ATTACK TRIAL  
DATA TAPE CODING MANUAL

General Introduction

The Beta-Blocker Heart Attack Trial (BHAT) was a multi-centered, double-blinded, randomized, placebo-controlled trial designed to test the efficacy of propranolol given to post-myocardial infarction patients.

The accompanying data tape is a general user's data tape containing most of the BHAT baseline data, most of the endpoint data, and most of the data collected on the first, second, and third annual visits.

Description of Coding Manual and the Variables on the Data Tape

The Coding Manual and each record of the data tape are divided into twelve main sections. These sections, the corresponding BHAT form numbers, and the corresponding Coding Manual page numbers are as follow.

<u>Section</u>	<u>BHAT Form Number</u>	<u>Coding Manual Page Number</u>
Randomization Record	ledger, BH06	1
BHAT Qualifying Myocardial Infarction	BH03	3
Baseline Interview and Examination	BH08	6
BHAT Clinical Center Laboratory and X-ray Results	BH09	
a) Baseline		24
b) First Annual*		26
c) Second Annual*		27
d) Third Annual*		29

<u>Section</u>	<u>BHAT Form Number</u>	<u>Coding Manual Page Number</u>
BHAT Follow-up Interview and Examination	BH11	
a) First Annual*		31
b) Second Annual*		46
c) Third Annual*		61
New Nonfatal Cardiac Event*	BH13	76
BHAT Incident Congestive Heart Failure*	BH14	80
BHAT Incident Stroke*	BH15	83
BHAT ECG Coding Form	BH20	
a) Baseline		86
b) First Annual*		88
c) Second Annual*		91
d) Third Annual		93
Lab Result Record	BH34	
a) Baseline		96
b) First Annual*		96
c) Second Annual*		96
d) Third Annual*		96
Selected Fatal and Nonfatal Events Occurring During Follow-up Period*	(many)	97
24-Hour Ambulatory ECG (Holter) Data	BH19	100
a) Baseline		
b) Six Weeks*		

The starred (\*) sections contain follow-up data. The other sections contain baseline data.

Following these twelve sections is a Comments Section (page 101) and an appendix describing the Minnesota Codes used in the BHAT.

On each page of the Coding Manual are listed the following data.

a) The sequential item number of the variable (ranging from 1 to 796).

b) The tape location (ranging from 1 to 1387).

- c) The size of the individual tape location.
- d) The BHAT item description and codes (i.e., the variables).
- e) The number of patients with the characteristic in question (in the case of discrete data) or the number of patients with acceptable data (in the case of continuous data). For example, on page 1 it is noted that there were 3235 males and 602 females in the BHAT (item number 8). (Note that these data also provide the opportunity to quickly determine certain overall prevalence ratios and incident rates.) Also on page 1, it is noted that 1652 propranolol group patients had an acceptable baseline propranolol level (in ng/ml) (item number 5).
- f) A Comment Number corresponding to a number in the Comments Section.

#### Special Considerations

- a) There are 3837 records, one for each patient at baseline.
- b) Not all patients had all follow-up visits. When calculating the prevalence of a particular characteristic at a particular follow-up visit, it is recommended to first check whether or not the patient has the follow-up form in question. The affected forms and the page number in this manual to check are:
  1. Clinical Center Lab Results, page 24 (items 150, 151, 152).
  2. Follow-up Interview and Examination, page 31 (items 197, 198, 199).
  3. ECG Coding Form, page 86 (items 592, 593, 594).

c) Except where indicated in the Manual or in the Comments Section, missing values are coded as "0" (zero).

d) Except where indicated in the Comments Section, all variables are recorded as integer variables.

#### Data Tape Specification

The accompanying tape is 9-track, unlabeled, and written in EBCDIC with a density of ~~600~~<sup>6250</sup> bpi. ~~\_\_\_\_\_~~

~~\_\_\_\_\_~~ The tape is in IBM format. Each record is 1387 characters long and the tape is blocked at 3 records per block, making each block 4161 characters long.

There are 3837 records, one for each BHAT participant, and they are in order of increasing identification number (item number 1, the first 9 characters of the record).

#### Further Information on the BHAT

For further information on the Beta-Blocker Heart Attack Trial, the user is directed to the following publications:

1. The Beta-Blocker Heart Attack Trial Research Group: Beta-Blocker Heart Attack Trial Design Features. Contr Clin Trials 2:275-285, 1981.
2. The Beta-Blocker Heart Attack Trial Research Group: A Randomized Trial of Propranolol Patients With Acute Myocardial Infarction.
  - I. Mortality Results. JAMA 247(12):1707-1714, 1982.
  2. The Beta-Blocker Heart Attack Trial Research Group: A Randomized Trial of Propranolol Patients With Acute Myocardial Infarction.
    - II. Morbidity Results. JAMA 250(20):2814-2819, 1983.

BETA-BLOCKER HEART ATTACK TRIAL  
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ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
<u>RANDOMIZATION RECORD</u>					
1	1-9	9	Identification Number	3837	
3	16-21	6	Date of Randomization	3837	3
4	22-22	1	Treatment Group 1=Propranolol 2=Placebo	1916 1921	
5	23-26	4	Propranolol Level at Baseline (Propranolol Group only), ng/ml	1652	5
6	27-27	1	Dosage Recommendation 1=240 mg/day 2=180 mg/day	678 3159	
7	32-33	2	Age at Randomization	3837	7
8	34-34	1	Sex 1=Male 2=Female	3235 602	
9	35-35	1	Race 1=White 2=Black 3=Asian 4=Other	3410 333 54 40	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
10	36-36	1	BHAT Qualifying Myocardial Infarction 1=Yes 2=No	3496 341	10
11	37-37	1	Class I 1=Yes 2=No	2152 1685	10
12	38-38	1	Class II 1=Yes 2=No	1242 2595	10
13	39-39	1	Class III 1=Yes 2=No	3018 819	10
14	40-40	1	Location of MI 1=Anterior Category I 2=Anterior Category II 3=Anterior Category III 4=Anterior and Inferior 5=Inferior 6=Sub-Endocardial 7=Non-BHAT MI	49 824 154 368 1228 873 341	14

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
<u>BHAT QUALIFYING MYOCARDIAL INFARCTION -- FORM BH03</u>					
15	41-46	6	Date of Admission for BHAT MI	3837	15
16	47-52	6	Date of onset of acute symptoms	3837	16
17	53-56	4	CPK Ratio	3796	17
18	57-57	1	SGOT Elevated? 1=Yes 2=No 3=Not Done 4=Unknown	3232 353 221 22	
19	58-58	1	CPK Elevated? 1=Yes 2=No 3=Not Done 4=Unknown	3654 143 35 2	
20	59-59	1	CPK-MB Elevated? 1=Yes 2=No 3=Not Done 4=Unknown	1830 73 1587 299	
21	60-60	1	LDH Elevated? 1=Yes 2=No 3=Not Done 4=Unknown	2727 969 115 20	



ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
22	61-61	1	HBD Elevated? 1=Yes 2=No 3=Not Done 4=Unknown	243 87 3402 43	
23	62-62	1	According to patient's hospital records, did the patient experience the following symptoms during the present event: severe discomfort occurring anywhere in the anterior chest, back, epigastrium, jaw, neck, shoulder, elbow, forearm or wrist? (These symptoms must be present more than 30 minutes unless relieved by morphine or meperidine.) 1=Yes 2=No	3802 34	
24	63-63	1	Was the patient taking any of the following medications at the time of the event? Digitalis? 1=Yes 2=No 3=DK Quinidine and/or Procainamide? 1=Yes 2=No 3=DK Diuretics? 1=Yes 2=No 3=DK Potassium? 1=Yes 2=No 3=DK	127 3689 21 57 3761 19 673 3133 31 133 3679 25	
25	64-64	1			
26	65-65	1			
27	66-66	1			

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
28	67-67	1	The event is classified by the Clinical Center as: 1=MI Class I 2=MI Class II 3=MI Class III	2332 755 748	28

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
<u>BASELINE INTERVIEW AND EXAMINATION -- FORM BH08</u>					
<u>A) Baseline Interview</u>					
<u>Prior History of Chest Pain</u>					
29	68-68	1	Rose Questionnaire Angina 1=Present 2=Absent	443 3394	29
30	69-69	1	How many days per week did you usually have this pain or discomfort? 1=Every day 2=One or more days per week but not daily 3=Does not occur every week	41 141 260	
31	70-71	2	On the days that you had this pain or discomfort, how many times per day did you usually have it?	440	
32	72-72	1	When you had this pain or discomfort, how long did it usually last? 1=One minute or less 2=More than one minute up to 5 minutes 3=More than 5 minutes	51 255 136	
33	73-73	1	Did this pain or discomfort ever occur: At rest? 1=Yes 2=No 3=DK	142 296 5	
34	74-74	1	After meals? 1=Yes 2=No 3=DK	139 289 15	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
35	75-75	1	In the month prior to this hospitalization, would you say these symptoms: 1=Increased 2=Decreased 3=Stayed the same	258 28 156	
<u>Other Prior History</u>					
36	76-76	1	Prior to the start of your present illness, did a doctor ever tell you that you had a heart attack or coronary (myocardial infarction, coronary thrombosis or coronary occlusion)? 1=Yes 2=No	567 3270	
37	77-78	2	In what year were you first told by your doctor that you had a heart attack?	567	
38	79-80	2	For how many of these attacks were you hospitalized? (Include only attacks which your doctor called "heart attack" or "coronary, myocardial infarction, coronary thrombosis, or coronary occlusion.")	521	
39	81-81	1	Prior to this hospitalization, have you ever had shortness of breath which your doctor said was due to heart trouble? 1=Yes 2=No	227 3610	
40	82-82	1	Were you treated with: Digitalis? 1=Yes 2=No 3=DK	52 154 20	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
41	83-83	1	Diuretics (water pills)? 1=Yes 2=No 3=DK	82 125 19	
42	84-84	1	Prior to this hospitalization, were you ever told by a doctor that you had high blood pressure or hypertension? 1=Yes 2=No	1565 2272	
43	85-85	1	Were you treated with: Diuretics (Water Pills)? 1=Yes 2=No 3=DK	913 521 130	
44	86-86	1	Other antihypertensives? 1=Yes 2=No 3=DK	622 792 150	
45	87-87	1	Rose Questionnaire Intermittent Claudication? 1=Present 2=Absent	113 3724	45
46	88-88	1	Prior to this hospitalization have you ever been told by a doctor that you had: Diabetes (high sugar in blood or urine)? 1=Yes 2=No 3=DK	443 3383 11	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
47	89-89	1	Cirrhosis or other liver disease? 1=Yes 2=No 3=DK	66 3763 8	
48	90-90	1	Bronchial asthma or emphysema? 1=Yes 2=No 3=DK	131 3696 10	
49	91-91	1	Stroke? 1=Yes 2=No 3=DK	96 3733 8	
50	92-92	1	Valvular heart disease (damage to the valves inside the heart)? 1=Yes 2=No 3=DK	28 3787 22	
51	93-93	1	Cancer? 1=Yes 2=No 3=DK	123 3713 1	
52	94-94	1	Just prior to this hospitalization, were you taking: Inderal (propranolol)? 1=Yes 2=No 3=DK	249 3568 19	
53	95-95	1	Other beta-blockers? 1=Yes 2=No 3=DK	22 3796 18	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
54	96-96	1	Within the past 3 months, but prior to this hospitalizaion, have you experienced any of the following: Faintness or light-headedness when you stood up quickly? 1=Yes 2=No 3=DK	1057 2763 17	
55	97-97	1	Problem with heart beating fast or skipping beats? 1=Yes 2=No 3=DK	883 2902 52	
56	98-98	1	Blacking out or losing consciousness? 1=Yes 2=No 3=DK	100 3734 3	
57	99-99	1	Frequent depression that interfered with work, recreation or sleep? 1=Yes 2=No 3=DK	606 3215 16	
58	100-100	1	Unusual tiredness or fatigue during ordinary activities? 1=Yes 2=No 3=DK	1351 2475 11	
59	101-101	1	Frequent nightmares or vivid dreams? 1=Yes 2=No 3=DK	494 3331 12	
60	102-102	1	Hallucinations? 1=Yes 2=No 3=DK	38 3793 6	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
61	103-103	1	Blurred vision? 1=Yes 2=No 3=DK	524 3299 14	
62	104-104	1	Recurrent insomnia or problems with waking up too early? 1=Yes 2=No 3=DK	804 3027 6	
63	105-105	1	Recurrent nausea and vomiting? 1=Yes 2=No 3=DK	168 3668 1	
64	106-106	1	Recurrent abdominal pain or cramping? 1=Yes 2=No 3=DK	255 3576 6	
65	107-107	1	Recurrent diarrhea? 1=Yes 2=No 3=DK	176 3660 1	
66	108-108	1	Recurrent constipation? 1=Yes 2=No 3=DK	331 3500 6	
67	109-109	1	Recurrent bronchospasm (wheezing in the chest)? 1=Yes 2=No 3=DK	424 3395 18	
68	110-110	1	Recurrent muscle cramps? 1=Yes 2=No 3=DK	681 3148 8	



ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
69	111-111	1	Dryness of eyes? 1=Yes 2=No 3=DK	193 3635 9	
70	112-112	1	Problems with hands or feet being extremely cold? 1=Yes 2=No 3=DK	728 3100 9	
71	113-113	1	Problems with burning, prickling or tingling in hands? 1=Yes 2=No 3=DK	611 3216 10	
72	114-114	1	Problems with flushing? 1=Yes 2=No 3=DK	445 3382 9	
73	115-115	1	Problems with dry mouth? 1=Yes 2=No 3=DK	667 3163 7	
74	116-116	1	Sudden loss of hair? 1=Yes 2=No 3=DK	77 3755 5	
75	117-117	1	Rash? 1=Yes 2=No 3=DK	280 3553 4	
76	118-118	1	Decrease in sexual activity? 1=Yes 2=No 3=DK	583 3069 185	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
			<u>Life Style in the Year Prior to this Hospitalization</u>		
77	119-119	1	Are you currently employed or were you employed just prior to this hospitalization? 1=Yes, full-time, ≥35 hours 2=Yes, part-time, <35 hours 3=No, retired 4=No, temporarily unemployed 5=No	2689 204 650 101 193	
78	120-120	1	If not employed, is this for medical reasons? 1=Yes 2=No	375 569	
79	121-121	1	Thinking about the things you usually did at work (or housework) in the year prior to this hospitalization, how would you describe the kind of physical activity you got? 1=Almost none 2=Light physical activity 3=Moderate physical activity 4=Heavy physical activity	541 1146 916 288	79
80	122-122	1	Now, thinking about the things you did other than work (or housework) in the year prior to this hospitalization, how would you describe the kind of physical activity you got? 1=Almost none 2=Light physical activity 3=Moderate physical activity 4=Heavy physical activity	695 2037 972 133	79
81	123-123	1	Prior to this hospitalization, were you forced to change to a less strenuous life style with reduced physical activity because of your health? 1=Yes 2=No	686 3150	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
82	124-124	1	Have you ever smoked cigarettes? 1=Yes 2=No	3184 653	
83	125-126	2	Approximately how many years have you smoked cigarettes?	3184	83
84	127-127	1	During those years, on an average, how many cigarettes did you smoke per day? 2=Less than a half pack 3=Half pack to less than a pack 4=Pack to less than 1½ packs 5=1½ packs to less than 2 packs 6=2 or more packs	253 584 1066 565 715	
85	128-128	1	Just prior to this hospitalization, did you still smoke cigarettes? 1=Yes 2=No	2195 988	
86	129-129	1	How long ago did you stop smoking cigarettes? 1=Less than 6 months ago 2=6 months to less than 12 months ago 3=12 months to less than 5 years ago 4=5 or more years ago	118 53 124 691	
87	130-130	1	In the year prior to this hospitalization, did you usually smoke either of the following: Pipe? 1=Yes 2=No	420 3415	
88	131-131	1	Cigars? 1=Yes 2=No	467 3369	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
89	132-132	1	In the year prior to this hospitalization, on the average, how many days per week did you usually have a drink of beer, wine or liquor?	3837	89
<u>Family History</u>					
90	133-133	1	Is your mother alive? 1=Yes 2=No 3=DK	1231 2589 17	
91	134-136	3	Age of mother at death	2440	91
92	137-137	1	Cause of mother's death 1=Heart attack 2=Stroke 3=Other 4=Unknown	540 341 1266 442	
93	138-138	1	Is your father alive? 1=Yes 2=No 3=DK	480 3309 48	
94	139-141	3	Age of father at death	3117	94
95	142-142	1	Cause of father's death 1=Heart attack 2=Stroke 3=Other 4=Unknown	969 329 1507 504	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
96	143-143	1	<u>Education</u>		
			What is the highest grade or year of school that you completed?		
			1=Less than 7 years	289	
			2=7-9 years	544	
			3=10-11 years	493	
			4=High school graduate	1086	
			5=Some college, but no degree	781	
			6=College graduate	402	
7=Degree beyond college graduation	236				
8=DK	6				
97	144-144	1	<u>Marital Status</u>		
			What is your current marital status?		
			1=Never married	191	
			2=Married	2983	
			3=Widowed	223	
4=Separated	143				
5=Divorced	297				
<u>B) Baseline Physical Examination</u>					
98	145-147	3	Systolic blood pressure, mm Hg	3837	98
99	148-150	3	Diastolic blood pressure, mm Hg	3837	99
100	151-153	3	Heart Rate, beats/min	3837	100

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
101	154-154	1	Did any of the following occur during this hospitalization prior to randomization? Cardiogenic shock (oliguria and systolic BP <90 mm Hg)? 1=Yes 2=No 3=DK	50 3774 13	
102	155-155	1	Persistent hypotension (systolic <90 mm Hg for one hour or more)? 1=Yes 2=No 3=DK	275 3549 13	
103	156-156	1	Incomplete A-V block? 1=Yes 2=No 3=DK	311 3510 16	
104	157-157	1	Complete A-V block? 1=Yes 2=No 3=DK	98 3725 14	
105	158-158	1	Ventricular tachycardia (3 or more successive VPB's)? 1=Yes 2=No 3=DK	887 2930 20	
106	159-159	1	Ventricular fibrillation? 1=Yes 2=No 3=DK	203 3619 15	
107	160-160	1	Pulmonary edema? 1=Yes 2=No 3=DK	103 3719 15	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
108	161-161	1	Atrial fibrillation or flutter? 1=Yes 2=No 3=DK	240 3583 14	
109	162-162	1	Signs and symptoms of CHF (new or recurrent) requiring therapy with digitalis or diuretics? 1=Yes 2=No 3=DK	561 3263 13	
110	163-163	1	Use of propranolol or other beta-blockers? 1=Yes 2=No 3=DK	561 3263 13	
111	164-164	1	Use of nitroglycerine or long-acting coronary vasodilators? 1=Yes 2=No 3=DK	2173 1654 10	
112	165-165	1	Use of other antiarrhythmics? 1=Yes 2=No 3=DK	1762 2061 14	
113	166-166	1	Use of nitroprusside? 1=Yes 2=No 3=DK	83 3741 13	
114	167-168	2	Height, inches	3806	114
115	169-171	3	Weight, pounds	3817	115
116	172-172	1	Rash? 1=Yes 2=No	105 3732	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
117	173-173	1	Expiratory wheezes? 1=Yes 2=No	24 3813	
118	174-174	1	Abnormal neck venous distension present (above the clavicle when the patient is at a 45 degree angle)? 1=Yes 2=No	15 3821	
119	175-175	1	Basilar rales? 1=Yes 2=No	115 3722	
120	176-176	1	S3 gallop? 1=Yes 2=No	50 3786	
121	177-177	1	Hepatomegaly? 1=Yes 2=No	31 3806	
122	178-178	1	Peripheral edema? 1=Yes 2=No	34 3803	
123	179-179	1	Examination of pulses: Right carotid 1=Normal 2=Diminished 3=Absent Left carotid 1=Normal 2=Diminished 3=Absent	3775 56 6	
124	180-180	1		3762 72 3	



ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
125	181-181	1	Right femoral 1=Normal 2=Diminished 3=Absent 4=Limb missing	3717 108 12 0	
126	182-182	1	Left femoral 1=Normal 2=Diminished 3=Absent 4=Limb missing	3697 123 16 1	
127	183-183	1	Right dorsal pedis 1=Normal 2=Diminished 3=Absent 4=Limb missing	3095 431 298 11	
128	184-184	1	Left dorsal pedis 1=Normal 2=Diminished 3=Absent 4=Limb missing	3050 467 307 12	
129	185-185	1	Right posterior tibial 1=Normal 2=Diminished 3=Absent 4=Limb missing	3103 438 282 12	
130	186-186	1	Left posterior tibial 1=Normal 2=Diminished 3=Absent 4=Limb missing	3097 430 292 17	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
131	187-187	1	Hemiplegia? 1=Right 2=Left 3=Both 4=None	13 8 0 3816	
132	188-188	1	Gross hemiparesis? 1=Right 2=Left 3=Both 4=None	15 13 1 3808	
133	189-189	1	In your opinion, has the patient ever experienced: Angina pectoris? 1=Yes 2=No 3=DK	1387 2391 59	
134	190-190	1	Congestive heart failure? 1=Yes 2=No 3=DK	351 3439 47	
135	191-191	1	Intermittent claudication? 1=Yes 2=No 3=DK	155 3628 54	
136	192-192	1	Is the patient taking any of the following categories of drugs: Antiarrhythmics? 1=Yes 2=No 3=DK	663 3168 5	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
137	193-193	1	Anticoagulants? 1=Yes 2=No 3=DK	557 3273 6	
138	194-194	1	Antihypertensives excluding diuretics? 1=Yes 2=No 3=DK	172 3660 5	
139	195-195	1	Aspirin prescribed on a continuing basis? 1=Yes 2=No 3=DK	212 3621 4	
140	196-196	1	Digitalis? 1=Yes 2=No 3=DK	489 3343 5	
141	197-197	1	Dipyridamole? 1=Yes 2=No 3=DK	27 3806 4	
142	198-198	1	Diuretics? 1=Yes 2=No 3=DK	654 3177 6	
143	199-199	1	Insulin? 1=Yes 2=No 3=DK	133 3699 5	
144	200-200	1	Lipid-lowering agents? 1=Yes 2=No 3=DK	35 3797 5	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
145	201-201	1	Long-acting coronary vasodilators? 1=Yes 2=No 3=DK	1388 2444 5	
146	202-202	1	Oral hypoglycemics? 1=Yes 2=No 3=DK	78 3754 5	
147	203-203	1	Sulfinpyrazone? 1=Yes 2=No 3=DK	45 3787 5	
148	204-204	1	Other cardiovascular preparations not previously mentioned? 1=Yes 2=No 3=DK	236 3594 6	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
<u>BHAT CLINICAL CENTER LABORATORY AND X-RAY RESULTS--FORM BH09</u>					
149	205-205	1	Baseline form present? 1=Yes 2=No	3812 25	
150	206-206	1	First annual form present? 1=Yes 2=No	3274 563	
151	207-207	1	Second annual form present? 1=Yes 2=No	1852 1985	
152	208-208	1	Third annual form present? 1=Yes 2=No	309 3528	
153	209-214	6	Date of baseline form?	3810	153
154	215-219	5	White Blood Cell Count, per mm <sup>3</sup>	3789	154
155	220-221	2	Hematocrit, %	3788	155
156	222-222	1	Results of urinalysis: Glucose 0=Missing 1=Negative 2=Trace 3=1+ 4=2+ 5=3+ 6=4+	76 3515 109 47 30 34 26	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
157	223-223	1	Ketones 0=Missing 1=Negative 2=Small 3=Moderate 4=Large	75 3667 74 15 6	
158	224-224	1	Bilirubin 0=Missing 1=Negative 2=Small 3=Moderate 4=Large	75 3714 45 3 0	
159	225-225	1	Blood 0=Missing 1=Negative 2=Small 3=Moderate 4=Large	74 3628 112 19 4	
160	226-226	1	Protein 0=Missing 1=Negative 2=Trace 3=1+ 4=2+ 5=3+ 6=4+	77 3200 441 78 25 12 4	
161	227-229	3	pH (Interpolated to closest half unit.)	3179	161
162	230-233	4	Thoracic Ratio, %	3256	162
163	234-234	1	Cardiomegaly? 1=Present 2=Absent	1166 2090	163

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
164	235-240	6	Date of first annual Clinical Laboratory and X-ray Results form	3274	
165	241-245	5	White Blood Cell Count, per mm <sup>3</sup>	3212	
166	246-247	2	Hematocrit, %	3203	
167	248-248	1	Results of urinalysis: Glucose 0=Missing 1=Negative 2=Trace 3=1+ 4=2+ 5=3+ 6=4+	593 3064 50 28 35 36 31	
168	249-249	1	Ketones 0=Missing 1=Negative 2=Small 3=Moderate 4=Large	594 3218 23 2 0	
169	250-250	1	Bilirubin 0=Missing 1=Negative 2=Small 3=Moderate 4=Large	594 3205 33 4 1	
170	251-251	1	Blood 0=Missing 1=Negative 2=Small 3=Moderate 4=Large	594 3171 53 12 7	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
171	252-252	1	Protein 0=Missing 1=Negative 2=Trace 3=1+ 4=2+ 5=3+ 6=4+	597 2839 252 85 40 18 6	
172	253-255	3	pH (Interpolated to closest half unit.)	3233	172
173	256-259	4	Thoracic Ratio, %	2953	173
174	260-260	1	Cardiomegaly? 1=Present 2=Absent	959 1994	
175	261-266	6	Date of second annual Clinical Laboratory and X-ray Results form	1852	
176	267-271	5	White Blood Cell Count, per mm <sup>3</sup>	1825	
177	272-273	2	Hematocrit, %	1820	
178	274-274	1	Results of urinalysis: Glucose 0=Missing 1=Negative 2=Trace 3=1+ 4=2+ 5=3+ 6=4+	2003 1716 32 25 18 20 23	



ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
179	275-275	1	Ketones 0=Missing 1=Negative 2=Small 3=Moderate 4=Large	2003 1809 20 4 1	
180	276-276	1	Bilirubin 0=Missing 1=Negative 2=Small 3=Moderate 4=Large	2004 1822 9 2 0	
181	277-277	1	Blood 0=Missing 1=Negative 2=Small 3=Moderate 4=Large	2003 1787 36 8 3	
182	278-278	1	Protein 0=Missing 1=Negative 2=Trace 3=1+ 4=2+ 5=3+ 6=4+	2004 1595 151 64 11 9 3	172
183	279-281	3	pH (Interpolated to closest half unit.)	1831	173
184	282-285	4	Thoracic Ratio, %	46	
185	286-286	1	Cardiomegaly? 1=Present 2=Absent	12 34	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
186	287-292	6	Date of third annual Clinical Laboratory and X-ray Results form	309	
187	293-297	5	White Blood Cell Count, per mm <sup>3</sup>	305	
188	298-299	2	Hematocrit, %	304	
189	300-300	1	Results of urinalysis: Glucose 0=Missing 1=Negative 2=Trace 3=1+ 4=2+ 5=3+ 6=4+	3530 283 6 4 8 6 0	
190	301-301	1	Ketones 0=Missing 1=Negative 2=Small 3=Moderate 4=Large	3530 306 1 0 0	
191	302-302	1	Bilirubin 0=Missing 1=Negative 2=Small 3=Moderate 4=Large	3530 307 0 0 0	
192	303-303	1	Blood 0=Missing 1=Negative 2=Small 3=Moderate 4=Large	3530 300 6 1 0	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
193	304-304	1	Protein 0=Missing 1=Negative 2=Trace 3=1+ 4=2+ 5=3+ 6=4+	3530 271 22 10 2 1 1	
194	305-307	3	pH (Interpolated to closest half unit.)	307	172
195	308-311	4	Thoracic Ratio, %	0	195
196	312-312	1	Cardiomegaly? 1=Present 2=Absent	0 0	195

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
<u>BHAT FOLLOW-UP INTERVIEW AND EXAMINATION -- FORM BH11</u>					
197	313-313	1	First annual visit form present? 1=Yes 2=No	3423 414	
198	314-314	1	Second annual visit form present? 1=Yes 2=No	1973 1864	
199	315-315	1	Third annual visit form present? 1=Yes 2=No	322 3515	
200	316-321	6	Date of first annual visit	3423	
<u>A) Follow-up Interview</u>					
201	322-322	1	Rose Questionnaire Angina since last visit? 1=Present 2=Absent	406 3017	201
202	323-323	1	How many days per week did you usually have this pain or discomfort? 1=Every day 2=One or more days per week but not daily 3=Does not occur every week	58 188 160	
203	324-325	2	On the days that you had this pain or discomfort, how many times per day did you usually have it?	406	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
204	326-326	1	When you had this pain or discomfort, how long did it usually last? 1=One minute or less 2=More than one minute up to 5 minutes 3=More than 5 minutes	90 242 74	
205	327-327	1	Did this pain or discomfort ever occur: At rest? 1=Yes 2=No 3=DK	118 286 2	
206	328-328	1	After meals? 1=Yes 2=No 3=DK	109 290 7	
207	329-329	1	Since your most recent BHAT interview, has your pain been: 1=The same as in the past? 2=Better than in the past? 3=Worse than in the past?	184 133 89	
208	330-330	1	Since your most recent BHAT interview, did you have a pain across the front of your chest lasting a half hour or more? 1=Yes 2=No	153 1356	
209	331-334	4	How long did this pain last?	153	
210	335-335	1	Was pain accompanied by sweating, shortness of breath, or nausea? 1=Yes 2=No	96 57	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
211	336-336	1	Since your most recent BHAT interview, did a doctor tell you that you had a heart attack or coronary (myocardial infarction, coronary thrombosis or coronary occlusion)? 1=Yes 2=No	31 3391	
212	337-338	2	How many of the attacks did you have?	31	
213	339-339	1	Since your most recent BHAT interview, have you had shortness of breath that required you to stop and rest? 1=Yes 2=No 3=Uncertain	985 2425 13	
214	340-340	1	Do you get shortness of breath brought on by: Walking on level ground? 1=Yes 2=No 3=DK	469 2941 13	
215	341-341	1	Climbing a single flight of stairs? 1=Yes 2=No 3=DK	671 2612 140	
216	342-342	1	Heavy lifting? 1=Yes 2=No 3=DK	323 1785 1315	
217	343-343	1	Light housework or house repairs? 1=Yes 2=No 3=DK	371 2874 178	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
218	344-344	1	Did you get shortness of breath when you were lying down flat (using no more than one pillow)? 1=Yes 2=No	262 3161	
219	345-345	1	Did this shortness of breath improve when you sat up or used extra pillows? 1=Yes 2=No 3=Uncertain	201 32 28	
220	346-346	1	Did you get shortness of breath which awakened you when you were lying down asleep? 1=Yes 2=No 3=Uncertain	138 3272 13	
221	347-347	1	Since your most recent BHAT interview, have you been hospitalized? 1=Yes 2=No	286 1830	
222	348-349	2	Number of times hospitalized	286	
223	350-350	1	Since your most recent interview, have you had cardiac catheterization (angiography)? 1=Yes 2=No	73 2042	
224	351-351	1	Since your most recent BHAT interview, has your doctor told you that you: Developed hypertension (high blood pressure)? 1=Yes 2=No 3=DK	59 2057 0	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
225	352-352	1	Developed hypotension (low blood pressure)? 1=Yes 2=No 3=DK	22 2093	
226	353-353	1	Developed diabetes (high sugar in blood or urine)? 1=Yes 2=No 3=DK	1 8 2107	
227	354-354	1	Developed cirrhosis or other liver disease? 1=Yes 2=No 3=DK	1	
228	355-355	1	Had bronchial asthma or emphysema? 1=Yes 2=No 3=DK	2 2113	
229	356-356	1	Had a stroke? 1=Yes 2=No 3=DK	1 4 2112	
230	357-357	1	Developed cancer? 1=Yes 2=No 3=DK	0 9 2107	
231	358-358	1	Developed congestive heart failure? 1=Yes 2=No 3=DK	0 6 2110	
232	359-359	1	Developed other conditions? 1=Yes 2=No 3=DK	0 25 2089	
				2	
				337 1775	
				4	



ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
233	360-360	1	Since your most recent BHAT interview, have you experienced any of the following conditions: Blacking out or losing consciousness? 1=Yes 2=No 3=DK	60 3362 1	
234	361-361	1	Frequent depression that interfered with work, recreation, or sleep? 1=Yes 2=No 3=DK	369 3046 8	
235	362-362	1	Unusual tiredness or fatigue during ordinary activities? 1=Yes 2=No 3=DK	750 2661 12	
236	363-363	1	Frequent nightmares or vivid dreams? 1=Yes 2=No 3=DK	407 3011 5	
237	364-364	1	Hallucinations? 1=Yes 2=No 3=DK	36 3386 1	
238	365-365	1	Recurrent bronchospasm (wheezing in the chest)? 1=Yes 2=No 3=DK	332 3087 4	
239	366-366	1	Decrease in sexual activity? 1=Yes 2=No 3=DK	395 2822 206	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
240	367-367	1	Have you noted any changes in your health since your most recent BHAT interview? 1=Yes 2=No		1366 2057
241	368-368	1	Faintness or light-headedness when standing up quickly? 1=Yes	179	
242	369-369	1	Problems with heart beating fast or skipping beats? 1=Yes	65	
243	370-370	1	Blurred vision? 1=Yes	31	
244	371-371	1	Recurrent insomnia or problems with waking up too early? 1=Yes	78	
245	372-372	1	Recurrent nausea and/or vomiting? 1=Yes	20	
246	373-373	1	Recurrent abdominal pain or cramping? 1=Yes	19	
247	374-374	1	Recurrent diarrhea? 1=Yes	10	
248	375-375	1	Recurrent constipation? 1=Yes	6	
249	376-376	1	Problems with hands or feet being extremely cold? 1=Yes	34	
250	377-377	1	Problems with burning, prickling, or tingling in hands? 1=Yes	38	
251	378-378	1	Problems with flushing? 1=Yes	7	
252	379-379	1	Problems with dry mouth? 1=Yes	9	
253	380-380	1	Sudden loss of hair? 1=Yes	5	
254	381-381	1	Rash? 1=Yes	23	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
255	382-382	1	Dryness of eyes? 1=Yes	2	
256	383-383	1	Feel better? 1=Yes	393	
257	384-384	1	Are you currently working at your occupation? 1=Yes, full-time ( $\geq 35$ hours) 2=Yes, part-time ( $< 35$ hours) 3=No, have not returned to work since MI, but plan to do so 4=No, retired 5=No, temporarily unemployed 6=No	1713 324 151 247 90 136	
258	385-385	1	If not employed, is this for medical reasons? 1=Yes 2=No	249 226	
259	386-386	1	Thinking about the things you do at work (or housework), how would you describe the kind of physical activity you have been getting since your most recent BHAT interview? 1=Almost none 2=Light physical activity 3=Moderate physical activity 4=Heavy physical activity	431 1076 472 59	
260	387-387	1	Now, thinking about the things you do outside of work (or housework), how would you describe the kind of activity you have been getting since your most recent BHAT interview? 1=Almost none 2=Light physical activity 3=Moderate physical activity 4=Heavy physical activity	596 2091 713 23	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
261	388-388	1	Since your most recent BHAT interview, how many cigarettes have you usually been smoking per day? 1=None 2=Less than a half pack 3=Half pack to less than a pack 4=Pack to less than 1½ packs 5=1½ packs to less than 2 packs 6=2 or more packs	2422 307 316 276 61 41	
262	389-389	1	Have you usually been smoking either of the following: Pipe? 1=Yes 2=No	129 3294	
263	390-390	1	Cigars? 1=Yes 2=No	100 3323	
264	391-391	1	Since your most recent BHAT interview, on the average, how many days per week do you usually have a drink of beer, wine or liquor? 9=Missing	3423	
265	392-392	1	Has your marital status changed since your most recent BHAT interview? 1=Yes 2=No	24 3399	
266	393-393	1	What is your current marital status? 1=Married 2=Widowed 3=Separated 4=Divorced	6 6 8 4	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
<u>B) Follow-up Physical Examination</u>					
267	394-396	3	Weight, pounds	3327	
268	397-399	3	Heart Rate, beats/minute	3341	
269	400-402	3	Systolic Blood Pressure, mm Hg	3340	
270	403-405	3	Diastolic Blood Pressure, mm Hg	3340	
271	406-406	1	Rash? 1=Yes 2=No	65 3275	
272	407-407	1	Expiratory wheezes? 1=Yes 2=No	44 3296	
273	408-408	1	Abnormal neck venous distension present (above the clavicle when the patient is at a 45 degree angle)? 1=Yes 2=No	24 3316	
274	409-409	1	Basilar rales? 1=Yes 2=No	75 3265	
275	410-410	1	S3 gallop? 1=Yes 2=No	60 3280	
276	411-411	1	Hepatomegaly? 1=Yes 2=No	37 3303	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
277	412-412	1	Peripheral edema? 1=Yes 2=No	67 3273	
278	413-413	1	Examination of pulses: Right carotid 1=Normal 2=Diminished 3=Absent Left carotid 1=Normal 2=Diminished 3=Absent	3299 38 3	
279	414-414	1	Right femoral 1=Normal 2=Diminished 3=Absent	3298 40 2	
280	415-415	1	Left femoral 1=Normal 2=Diminished 3=Absent 4=Limb missing	3259 71 10 0	
281	416-416	1	Right femoral 1=Normal 2=Diminished 3=Absent	3250 76 14 0	
282	417-417	1	Left femoral 1=Normal 2=Diminished 3=Absent 4=Limb missing	2752 316 260 11	
283	418-418	1	Right dorsal pedis 1=Normal 2=Diminished 3=Absent 4=Limb missing Left dorsal pedis 1=Normal 2=Diminished 3=Absent 4=Limb missing	2717 346 262 14	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
284	419-419	1	Right posterior tibial 1=Normal 2=Diminished 3=Absent 4=Limb missing	2826 310 194 10	
285	420-420	1	Left posterior tibial 1=Normal 2=Diminished 3=Absent 4=Limb missing	2795 328 204 12	
286	421-421	1	Hemiplegia? 1=Right 2=Left 3=Both 4=None	5 6 0 3328	
287	422-422	1	Gross hemiparesis? 1=Right 2=Left 3=Both 4=None	9 7 0 3323	
288	423-423	1	In your opinion, has the patient experienced angina pectoris since his/her last examination? 1=Yes 2=No 3=DK	877 2463 0	
289	424-424	1	In your opinion, when compared to the patient's previous interview and examination, is the patient's angina: 1=Worse 2=Better 3=The same	197 168 512	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
290	425-425	1	Since the patient's last examination, is it your opinion that the patient has experienced: Congestive heart failure? 1=Yes 2=No	55 3284	
291	426-426	1	Intermittent claudication? 1=Yes 2=No	137 3202	
292	427-427	1	New York Heart Association Classification as of this date: 1=Class I 2=Class II 3=Class III 4=Class IV	2113 1090 129 8	292
293	428-428	1	Is the patient currently taking any of the following categories of drugs: Amphetamines? 1=Yes 2=No 3=DK	2 3342 0	
294	429-429	1	Antiarrhythmics? 1=Yes 2=No 3=DK	392 2952 0	
295	430-430	1	Anticoagulants? 1=Yes 2=No 3=DK	96 3248 0	
296	431-431	1	Antihypertensives excluding diuretics? 1=Yes 2=No 3=DK	229 3115 0	



ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
297	432-432	1	Aspirin prescribed on a continuing basis? 1=Yes 2=No 3=DK	357 2988 0	
298	433-433	1	Digitalis? 1=Yes 2=No 3=DK	605 2739 0	
299	434-434	1	Dipyridamole? 1=Yes 2=No 3=DK	83 3260 0	
300	435-435	1	Diuretics? 1=Yes 2=No 3=DK	932 2411 0	
301	436-436	1	Hormonal medications? 1=Yes 2=No 3=DK	69 3275 0	
302	437-437	1	Insulin? 1=Yes 2=No 3=DK	100 3244 0	
303	438-438	1	Lipid-lowering agents? 1=Yes 2=No 3=DK	37 3307 0	
304	439-439	1	Long-acting coronary vasodilators? 1=Yes 2=No 3=DK	979 2365 0	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
305	440-440	1	MAO inhibitors? 1=Yes 2=No 3=DK	5 3339 0	
306	441-441	1	Oral hypoglycemics? 1=Yes 2=No 3=DK	79 3265 0	
307	442-442	1	Potassium? 1=Yes 2=No 3=DK	276 3068 0	
308	443-443	1	Sulfinpyrazone? 1=Yes 2=No 3=DK	48 3296 0	
309	444-444	1	Tranquilizers? 1=Yes 2=No 3=DK	334 3009 0	
310	445-445	1	Other cardiovascular preparations not previously mentioned? 1=Yes 2=No 3=DK	250 3093 0	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
311	446-451	6	Date of second annual follow-up visit	1973	
			A) <u>Follow-up Interview</u>		
312	452-452	1	Rose Questionnaire Angina since last visit? 1=Present 2=Absent	209 1764	201
313	453-453	1	How many days per week did you usually have this pain or discomfort? 1=Every day 2=One or more days per week but not daily 3=Does not occur every week	28 101 80	
314	454-455	2	On the days that you had this pain or discomfort, how many times per day did you usually have it?	209	
315	456-456	1	When you had this pain or discomfort, how long did it usually last? 1=One minute or less 2=More than one minute up to 5 minutes 3=More than 5 minutes	40 136 33	
316	457-457	1	Did this pain or discomfort ever occur: At rest? 1=Yes 2=No 3=DK After meals? 1=Yes 2=No 3=DK	75 133 1	
317	458-458	1		54 155 0	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
318	459-459	1	Since your most recent BHAT interview, has your pain been: 1=The same as in the past? 2=Better than in the past? 3=Worse than in the past?	119 49 41	
319	460-460	1	Since your most recent BHAT interview, did you have a pain across the front of your chest lasting a half hour or more? 1=Yes 2=No	66 705	
320	461-464	4	How long did this pain last?	66	
321	465-465	1	Was pain accompanied by sweating, shortness of breath, or nausea? 1=Yes 2=No	50 16	
322	466-466	1	Since your most recent BHAT interview, did a doctor tell you that you had a heart attack or coronary (myocardial infarction, coronary thrombosis or coronary occlusion)? 1=Yes 2=No	14 1958	
323	467-468	2	How many of the attacks did you have?	14	
324	469-469	1	Since your most recent BHAT interview, have you had shortness of breath that required you to stop and rest? 1=Yes 2=No 3=Uncertain	552 1416 5	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
325	470-470	1	Do you get shortness of breath brought on by: Walking on level ground? 1=Yes 2=No 3=DK	250 1714 9	
326	471-471	1	Climbing a single flight of stairs? 1=Yes 2=No 3=DK	410 1501 62	
327	472-472	1	Heavy lifting? 1=Yes 2=No 3=DK	201 1118 654	
328	473-473	1	Light housework or house repairs? 1=Yes 2=No 3=DK	243 1646 84	
329	474-474	1	Did you get shortness of breath when you were lying down flat (using no more than one pillow)? 1=Yes 2=No	147 1825	
330	475-475	1	Did this shortness of breath improve when you sat up or used extra pillows? 1=Yes 2=No 3=Uncertain	115 11 21	
331	476-476	1	Did you get shortness of breath which awakened you when you were lying down asleep? 1=Yes 2=No 3=Uncertain	90 1875 7	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
332	477-477	1	Since your most recent BHAT interview, have you been hospitalized? 1=Yes 2=No	141 961	
333	478-479	2	Number of times hospitalized	141	
334	480-480	1	Since your most recent interview, have you had cardiac catheterization (angiography)? 1=Yes 2=No	22 1080	
335	481-481	1	Since your most recent BHAT interview, has your doctor told you that you: Developed hypertension (high blood pressure)? 1=Yes 2=No 3=DK	35 1065 2	
336	482-482	1	Developed hypotension (low blood pressure)? 1=Yes 2=No 3=DK	1 1100 1	
337	483-483	1	Developed diabetes (high sugar in blood or urine)? 1=Yes 2=No 3=DK	7 1094 1	
338	484-484	1	Developed cirrhosis or other liver disease? 1=Yes 2=No 3=DK	2 1099 1	
339	485-485	1	Had bronchial asthma or emphysema? 1=Yes 2=No 3=DK	1 1100 1	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
340	486-486	1	Had a stroke? 1=Yes 2=No 3=DK	4 1096 2	
341	487-487	1	Developed cancer? 1=Yes 2=No 3=DK	5 1096 1	
342	488-488	1	Developed congestive heart failure? 1=Yes 2=No 3=DK	12 1089 1	
343	489-489	1	Developed other conditions? 1=Yes 2=No 3=DK	199 902 1	
344	490-490	1	Since your most recent BHAT interview, have you experienced any of the following conditions: Blacking out or losing consciousness? 1=Yes 2=No 3=DK	33 1939 1	
345	491-491	1	Frequent depression that interfered with work, recreation, or sleep? 1=Yes 2=No 3=DK	193 1775 5	
346	492-492	1	Unusual tiredness or fatigue during ordinary activities? 1=Yes 2=No 3=DK	409 1561 3	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
347	493-493	1	Frequent nightmares or vivid dreams? 1=Yes 2=No 3=DK	236 1734 3	
348	494-494	1	Hallucinations? 1=Yes 2=No 3=DK	22 1950 1	
349	495-495	1	Recurrent bronchospasm (wheezing in the chest)? 1=Yes 2=No 3=DK	200 1771 2	
350	496-496	1	Decrease in sexual activity? 1=Yes 2=No 3=DK	201 1665 107	
351	497-497	1	Have you noted any changes in your health since your most recent BHAT interview? 1=Yes 2=No	678 1295	
352	498-498	1	Faintness or light-headedness when standing up quickly? 1=Yes	103	
353	499-499	1	Problems with heart beating fast or skipping beats? 1=Yes	23	
354	500-500	1	Blurred vision? 1=Yes	14	
355	501-501	1	Recurrent insomnia or problems with waking up too early? 1=Yes	52	
356	502-502	1	Recurrent nausea and/or vomiting? 1=Yes	10	
357	503-503	1	Recurrent abdominal pain or cramping? 1=Yes	12	



ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
358	504-504	1	Recurrent diarrhea? 1=Yes	8	
359	505-505	1	Recurrent constipation? 1=Yes	3	
360	506-506	1	Problems with hands or feet being extremely cold? 1=Yes	14	
361	507-507	1	Problems with burning, prickling, or tingling in hands? 1=Yes	13	
362	508-508	1	Problems with flushing? 1=Yes	1	
363	509-509	1	Problems with dry mouth? 1=Yes	2	
364	510-510	1	Sudden loss of hair? 1=Yes	0	
365	511-511	1	Rash? 1=Yes	7	
366	512-512	1	Dryness of eyes? 1=Yes	1	
367	513-513	1	Feel better? 1=Yes	145	
368	514-514	1	Are you currently working at your occupation? 1=Yes, full-time ( $\geq 35$ hours) 2=Yes, part-time ( $< 35$ hours) 3=No, have not returned to work since MI, but plan to do so 4=No, retired 5=No, temporarily unemployed 6=No	995 172 26 115 48 67	
369	515-515	1	If not employed, is this for medical reasons? 1=Yes 2=No	112 118	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
370	516-516	1	Thinking about the things you do at work (or housework), how would you describe the kind of physical activity you have been getting since your most recent BHAT interview? 1=Almost none 2=Light physical activity 3=Moderate physical activity 4=Heavy physical activity	223 618 293 33	
371	517-517	1	Now, thinking about the things you do outside of work (or housework), how would you describe the kind of activity you have been getting since your most recent BHAT interview? 1=Almost none 2=Light physical activity 3=Moderate physical activity 4=Heavy physical activity	353 1171 431 18	
372	518-518	1	Since your most recent BHAT interview, how many cigarettes have you usually been smoking per day? 1=None 2=Less than a half pack 3=Half pack to less than a pack 4=Pack to less than 1½ packs 5=1½ packs to less than 2 packs 6=2 or more packs	1346 166 192 184 46 39	
373	519-519	1	Have you usually been smoking either of the following: Pipe? 1=Yes 2=No	53 1920	
374	520-520	1	Cigars? 1=Yes 2=No	58 1915	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
375	521-521	1	Since your most recent BHAT interview, on the average, how many days per week do you usually have a drink of beer, wine or liquor? 9=Missing	1973	
376	522-522	1	Has your marital status changed since your most recent BHAT interview? 1=Yes 2=No	20 1953	
377	523-523	1	What is your current marital status? 1=Married 2=Widowed 3=Separated 4=Divorced	7 4 5 3	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
<u>B) Follow-up Physical Examination</u>					
378	524-526	3	Weight, pounds	1893	
379	527-529	3	Heart Rate, beats/minute	1895	
380	530-532	3	Systolic Blood Pressure, mm Hg	1894	
381	533-535	3	Diastolic Blood Pressure, mm Hg	1894	
382	536-536	1	Rash? 1=Yes 2=No	28 1867	
383	537-537	1	Expiratory wheezes? 1=Yes 2=No	30 1865	
384	538-538	1	Abnormal neck venous distension present (above the clavicle when the patient is at a 45 degree angle)? 1=Yes 2=No	15 1880	
385	539-539	1	Basilar rales? 1=Yes 2=No	30 1865	
386	540-540	1	S3 gallop? 1=Yes 2=No	25 1870	
387	541-541	1	Hepatomegaly? 1=Yes 2=No	15 1880	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
388	542-542	1	Peripheral edema? 1=Yes 2=No	48 1847	
389	543-543	1	Examination of pulses: Right carotid 1=Normal 2=Diminished 3=Absent	1877 16 2	
390	544-544	1	Left carotid 1=Normal 2=Diminished 3=Absent	1874 19 2	
391	545-545	1	Right femoral 1=Normal 2=Diminished 3=Absent 4=Limb missing	1843 43 9 0	
392	546-546	1	Left femoral 1=Normal 2=Diminished 3=Absent	1839 49 7 0	
393	547-547	1	Right dorsal pedis 1=Normal 2=Diminished 3=Absent 4=Limb missing	1527 182 182 4	
394	548-548	1	Left dorsal pedis 1=Normal 2=Diminished 3=Absent 4=Limb missing	1538 185 162 9	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
395	549-549	1	Right posterior tibial 1=Normal 2=Diminished 3=Absent 4=Limb missing	1592 170 129 4	
396	550-550	1	Left posterior tibial 1=Normal 2=Diminished 3=Absent 4=Limb missing	1579 180 126 9	
397	551-551	1	Hemiplegia? 1=Right 2=Left 3=Both 4=None	6 5 0 1884	
398	552-552	1	Gross hemiparesis? 1=Right 2=Left 3=Both 4=None	4 3 0 1888	
399	553-553	1	In your opinion, has the patient experienced angina pectoris since his/her last examination? 1=Yes 2=No 3=DK	417 1479 0	
400	554-554	1	In your opinion, when compared to the patient's previous interview and examination, is the patient's angina: 1=Worse 2=Better 3=The same	96 63 258	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
401	555-555	1	Since the patient's last examination, is it your opinion that the patient has experienced: Congestive heart failure? 1=Yes 2=No	26 1869	
402	556-556	1	Intermittent claudication? 1=Yes 2=No	77 1818	
403	557-557	1	New York Heart Association Classification as of this date: 1=Class I 2=Class II 3=Class III 4=Class IV	1247 567 77 4	292
404	558-558	1	Is the patient currently taking any of the following categories of drugs: Amphetamines? 1=Yes 2=No 3=DK	1 1905 0	
405	559-559	1	Antiarrhythmics? 1=Yes 2=No 3=DK	200 1706 0	
406	560-560	1	Anticoagulants? 1=Yes 2=No 3=DK	53 1852 0	
407	561-561	1	Antihypertensives excluding diuretics? 1=Yes 2=No 3=DK	150 1755 0	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
408	562-562	1	Aspirin prescribed on a continuing basis? 1=Yes 2=No 3=DK	232 1673 0	
409	563-563	1	Digitalis? 1=Yes 2=No 3=DK	364 1541 0	
410	564-564	1	Dipyridamole? 1=Yes 2=No 3=DK	59 1846 0	
411	565-565	1	Diuretics? 1=Yes 2=No 3=DK	602 1303 0	
412	566-566	1	Hormonal medications? 1=Yes 2=No 3=DK	49 1856 0	
413	567-567	1	Insulin? 1=Yes 2=No 3=DK	55 1850 0	
414	568-568	1	Lipid-lowering agents? 1=Yes 2=No 3=DK	22 1883 0	
415	569-569	1	Long-acting coronary vasodilators? 1=Yes 2=No 3=DK	506 1399 0	



ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
416	570-570	1	MAO inhibitors? 1=Yes 2=No 3=DK	3 1902 0	
417	571-571	1	Oral hypoglycemics? 1=Yes 2=No 3=DK	54 1851 0	
418	572-572	1	Potassium? 1=Yes 2=No 3=DK	190 1715 0	
419	573-573	1	Sulfinpyrazone? 1=Yes 2=No 3=DK	10 1895 0	
420	574-574	1	Tranquilizers? 1=Yes 2=No 3=DK	191 1714 0	
421	575-575	1	Other cardiovascular preparations not previously mentioned? 1=Yes 2=No 3=DK	148 1757 0	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
422	576-581	6	Date of third annual follow-up visit	322	
			A) <u>Follow-up Interview</u>		
423	582-582	1	Rose Questionnaire Angina since last visit? 1=Present 2=Absent	37 285	201
424	583-583	1	How many days per week did you usually have this pain or discomfort? 1=Every day 2=One or more days per week but not daily 3=Does not occur every week	3 16 18	
425	584-585	2	On the days that you had this pain or discomfort, how many times per day did you usually have it?	37	
426	586-586	1	When you had this pain or discomfort, how long did it usually last? 1=One minute or less 2=More than one minute up to 5 minutes 3=More than 5 minutes	10 21 6	
427	587-587	1	Did this pain or discomfort ever occur: At rest? 1=Yes 2=No 3=DK After meals? 1=Yes 2=No 3=DK	7 30 0 7 30 0	
428	588-588	1			

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
429	589-589	1	Since your most recent BHAT interview, has your pain been: 1=The same as in the past? 2=Better than in the past? 3=Worse than in the past?	19 10 8	
430	590-590	1	Since your most recent BHAT interview, did you have a pain across the front of your chest lasting a half hour or more? 1=Yes 2=No	16 97	
431	591-594	4	How long did this pain last?	16	
432	595-595	1	Was pain accompanied by sweating, shortness of breath, or nausea? 1=Yes 2=No	12 4	
433	596-596	1	Since your most recent BHAT interview, did a doctor tell you that you had a heart attack or coronary (myocardial infarction, coronary thrombosis or coronary occlusion)? 1=Yes 2=No	3 318	
434	597-598	2	How many of the attacks did you have?	3	
435	599-599	1	Since your most recent BHAT interview, have you had shortness of breath that required you to stop and rest? 1=Yes 2=No 3=Uncertain	91 229 1	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
436	600-600	1	Do you get shortness of breath brought on by: Walking on level ground? 1=Yes 2=No 3=DK	32 287 2	
437	601-601	1	Climbing a single flight of stairs? 1=Yes 2=No 3=DK	63 250 8	
438	602-602	1	Heavy lifting? 1=Yes 2=No 3=DK	34 184 103	
439	603-603	1	Light housework or house repairs? 1=Yes 2=No 3=DK	46 260 15	
440	604-604	1	Did you get shortness of breath when you were lying down flat (using no more than one pillow)? 1=Yes 2=No	27 294	
441	605-605	1	Did this shortness of breath improve when you sat up or used extra pillows? 1=Yes 2=No 3=Uncertain	22 2 3	
442	606-606	1	Did you get shortness of breath which awakened you when you were lying down asleep? 1=Yes 2=No 3=Uncertain	18 303 0	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
443	607-607	1	Since your most recent BHAT interview, have you been hospitalized? 1=Yes 2=No	18 152	
444	608-609	2	Number of times hospitalized	18	
445	610-610	1	Since your most recent interview, have you had cardiac catheterization (angiography)? 1=Yes 2=No	2 168	
446	611-611	1	Since your most recent BHAT interview, has your doctor told you that you: Developed hypertension (high blood pressure)? 1=Yes 2=No 3=DK	5 164 1	
447	612-612	1	Developed hypotension (low blood pressure)? 1=Yes 2=No 3=DK	3 166 1	
448	613-613	1	Developed diabetes (high sugar in blood or urine)? 1=Yes 2=No 3=DK	0 169 1	
449	614-614	1	Developed cirrhosis or other liver disease? 1=Yes 2=No 3=DK	0 169 1	
450	615-615	1	Had bronchial asthma or emphysema? 1=Yes 2=No 3=DK	0 169 1	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
451	616-616	1	Had a stroke? 1=Yes 2=No 3=DK	0 169 1	
452	617-617	1	Developed cancer? 1=Yes 2=No 3=DK	1 168 1	
453	618-618	1	Developed congestive heart failure? 1=Yes 2=No 3=DK	0 169 1	
454	619-619	1	Developed other conditions? 1=Yes 2=No 3=DK	26 143 1	
455	620-620	1	Since your most recent BHAT interview, have you experienced any of the following conditions: Blacking out or losing consciousness? 1=Yes 2=No 3=DK	4 317 0	
456	621-621	1	Frequent depression that interfered with work, recreation, or sleep? 1=Yes 2=No 3=DK	29 291 1	
457	622-622	1	Unusual tiredness or fatigue during ordinary activities? 1=Yes 2=No 3=DK	59 262 0	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
458	623-623	1	Frequent nightmares or vivid dreams? 1=Yes 2=No 3=DK	40 279 2	
459	624-624	1	Hallucinations? 1=Yes 2=No 3=DK	1 318 2	
460	625-625	1	Recurrent bronchospasm (wheezing in the chest)? 1=Yes 2=No 3=DK	33 288 0	
461	626-626	1	Decrease in sexual activity? 1=Yes 2=No 3=DK	32 273 16	
462	627-627	1	Have you noted any changes in your health since your most recent BHAT interview? 1=Yes 2=No	111 210	
463	628-628	1	Faintness or light-headedness when standing up quickly? 1=Yes	18	
464	629-629	1	Problems with heart beating fast or skipping beats? 1=Yes	1	
465	630-630	1	Blurred vision 1=Yes	2	
466	631-631	1	Recurrent insomnia or problems with waking up too early? 1=Yes	6	
467	632-632	1	Recurrent nausea and/or vomiting? 1=Yes	2	
468	633-633	1	Recurrent abdominal pain or cramping? 1=Yes	3	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
469	634-634	1	Recurrent diarrhea? 1=Yes	1	
470	635-635	1	Recurrent constipation? 1=Yes	0	
471	636-636	1	Problems with hands or feet being extremely cold? 1=Yes	2	
472	637-637	1	Problems with burning, prickling, or tingling in hands? 1=Yes	2	
473	638-638	1	Problems with flushing? 1=Yes	0	
474	639-639	1	Problems with dry mouth? 1=Yes	0	
475	640-640	1	Sudden loss of hair? 1=Yes	1	
476	641-641	1	Rash? 1=Yes	2	
477	642-642	1	Dryness of eyes? 1=Yes	0	
478	643-643	1	Feel better? 1=Yes	25	
479	644-644	1	Are you currently working at your occupation? 1=Yes, full-time ( $\geq 35$ hours) 2=Yes, part-time ( $< 35$ hours) 3=No, have not returned to work since MI, but plan to do so 4=No, retired 5=No, temporarily unemployed 6=No	154 27 3 17 12 11	
480	645-645	1	If not employed, is this for medical reasons? 1=Yes 2=No	20 20	



ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
481	646-646	1	Thinking about the things you do at work (or housework), how would you describe the kind of physical activity you have been getting since your most recent BHAT interview? 1=Almost none 2=Light physical activity 3=Moderate physical activity 4=Heavy physical activity	28 93 56 4	
482	647-647	1	Now, thinking about the things you do outside of work (or housework), how would you describe the kind of activity you have been getting since your most recent BHAT interview? 1=Almost none 2=Light physical activity 3=Moderate physical activity 4=Heavy physical activity	46 196 75 4	
483	648-648	1	Since your most recent BHAT interview, how many cigarettes have you usually been smoking per day? 1=None 2=Less than a half pack 3=Half pack to less than a pack 4=Pack to less than 1½ packs 5=1½ packs to less than 2 packs 6=2 or more packs	223 17 32 32 10 7	
484	649-649	1	Have you usually been smoking either of the following: Pipe? 1=Yes 2=No	12 309	
485	650-650	1	Cigars? 1=Yes 2=No	11 310	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
486	651-651	1	Since your most recent BHAT interview, on the average, how many days per week do you usually have a drink of beer, wine or liquor? 9=Missing	322	
487	652-652	1	Has your marital status changed since your most recent BHAT interview? 1=Yes 2=No	2 319	
488	653-653	1	What is your current marital status? 1=Married 2=Widowed 3=Separated 4=Divorced	0 1 0 1	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
<u>B) Follow-up Physical Examination</u>					
489	654-656	3	Weight, pounds	311	
490	657-659	3	Heart Rate, beats/minute	310	
491	660-662	3	Systolic Blood Pressure, mm Hg	311	
492	663-665	3	Diastolic Blood Pressure, mm Hg	311	
493	666-666	1	Rash? 1=Yes 2=No	9 302	
494	667-667	1	Expiratory wheezes? 1=Yes 2=No	3 308	
495	668-668	1	Abnormal neck venous distension present (above the clavicle when the patient is at a 45 degree angle)? 1=Yes 2=No	3 308	
496	669-669	1	Basilar rales? 1=Yes 2=No	7 304	
497	670-670	1	S3 gallop? 1=Yes 2=No	6 305	
498	671-671	1	Hepatomegaly? 1=Yes 2=No	4 307	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
499	672-672	1	Peripheral edema? 1=Yes 2=No	3 308	
500	673-673	1	Examination of pulses: Right carotid 1=Normal 2=Diminished 3=Absent	307 4 0	
501	674-674	1	Left carotid 1=Normal 2=Diminished 3=Absent	309 2 0	
502	675-675	1	Right femoral 1=Normal 2=Diminished 3=Absent 4=Limb missing	303 7 1 0	
503	676-676	1	Left femoral 1=Normal 2=Diminished 3=Absent 4=Limb missing	301 9 1 0	
504	677-677	1	Right dorsal pedis 1=Normal 2=Diminished 3=Absent 4=Limb missing	247 38 26 0	
505	678-678	1	Left dorsal pedis 1=Normal 2=Diminished 3=Absent 4=Limb missing	250 37 24 0	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
506	679-679	1	Right posterior tibial 1=Normal 2=Diminished 3=Absent 4=Limb missing	251 43 17 0	
507	680-680	1	Left posterior tibial 1=Normal 2=Diminished 3=Absent 4=Limb missing	254 37 20 0	
508	681-681	1	Hemiplegia? 1=Right 2=Left 3=Both 4=None	2 0 0 309	
509	682-682	1	Gross hemiparesis? 1=Right 2=Left 3=Both 4=None	2 0 0 309	
510	683-683	1	In your opinion, has the patient experienced angina pectoris since his/her last examination? 1=Yes 2=No 3=DK	75 236 0	
511	684-684	1	In your opinion, when compared to the patient's previous interview and examination, is the patient's angina: 1=Worse 2=Better 3=The same	16 13 46	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
512	685-685	1	Since the patient's last examination, is it your opinion that the patient has experienced: Congestive heart failure? 1=Yes 2=No	4 307	
513	686-686	1	Intermittent claudication? 1=Yes 2=No	17 294	
514	687-687	1	New York Heart Association Classification as of this date: 1=Class I 2=Class II 3=Class III 4=Class IV	193 107 10 1	292
515	688-688	1	Is the patient currently taking any of the following categories of drugs: Amphetamines? 1=Yes 2=No 3=DK	0 311 1	
516	689-689	1	Antiarrhythmics? 1=Yes 2=No 3=DK	29 282 1	
517	690-690	1	Anticoagulants? 1=Yes 2=No 3=DK	10 301 1	
518	691-691	1	Antihypertensives excluding diuretics? 1=Yes 2=No 3=DK	31 280 1	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
519	692-692	1	Aspirin prescribed on a continuing basis? 1=Yes 2=No 3=DK	37 274 1	
520	693-693	1	Digitalis? 1=Yes 2=No 3=DK	56 255 1	
521	694-694	1	Dipyridamole? 1=Yes 2=No 3=DK	9 302 1	
522	695-695	1	Diuretics? 1=Yes 2=No 3=DK	106 205 1	
523	696-696	1	Hormonal medications? 1=Yes 2=No 3=DK	5 306 1	
524	697-697	1	Insulin? 1=Yes 2=No 3=DK	8 303 1	
525	698-698	1	Lipid-lowering agents? 1=Yes 2=No 3=DK	3 308 1	
526	699-699	1	Long-acting coronary vasodilators? 1=Yes 2=No 3=DK	87 224 1	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
527	700-700	1	MAO inhibitors? 1=Yes 2=No 3=DK	0 311 1	
528	701-701	1	Oral hypoglycemics? 1=Yes 2=No 3=DK	5 306 1	
529	702-702	1	Potassium? 1=Yes 2=No 3=DK	36 275 1	
530	703-703	1	Sulfinpyrazone? 1=Yes 2=No 3=DK	3 308 1	
531	704-704	1	Tranquilizers? 1=Yes 2=No 3=DK	30 282 0	
532	705-705	1	Other cardiovascular preparations not previously mentioned? 1=Yes 2=No 3=DK	22 289 1	



ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
<u>NEW NONFATAL CARDIAC EVENT -- FORM BH13</u>					
533	706-706	1	MI Classification 1=Definite A 2=Definite B 3=Probable 4=Did not experience an MI	86 100 38 3613	533
534	707-712	6	Date of onset of symptoms of the reported event	224	
535	713-713	1	Was the patient taking any of the following medications at the time of the event? Digitalis? 1=Yes 2=No 3=DK	48 174 2	
536	714-714	1	Quinidine and/or Procainamide? 1=Yes 2=No 3=DK	18 204 2	
537	715-715	1	Diuretics? 1=Yes 2=No 3=DK	59 163 2	
538	716-716	1	Potassium? 1=Yes 2=No 3=DK	30 192 2	
539	717-717	1	Was the patient hospitalized for or during the event? 1=Yes 2=No	224 0	
540	718-723	6	Date of hospitalization	224	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
541	724-724	1	Did the following complications occur with the event? Cardiogenic shock (oliguria and systolic BP <90 mm Hg)? 1=Yes 2=No 3=DK	11 213 0	
542	725-725	1	Persistent hypotension (<90 mm Hg for one hour or more)? 1=Yes 2=No 3=DK	22 202 0	
543	726-726	1	Incomplete A-V block? 1=Yes 2=No 3=DK	21 202 1	
544	727-727	1	Complete A-V block? 1=Yes 2=No 3=DK	8 215 1	
545	728-728	1	Ventricular tachycardia (3 or more successive VPB's)? 1=Yes 2=No 3=DK	44 178 2	
546	729-729	1	Ventricular fibrillation or flutter? 1=Yes 2=No 3=DK	15 208 1	
547	730-730	1	Congestive heart failure? 1=Yes 2=No 3=DK	38 186 0	
548	731-731	1	New onset of atrial fibrillation or flutter? 1=Yes 2=No 3=DK	17 207 0	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
549	732-732	1	Death? 1=Yes 2=No 3=DK	1 223 0	
550	733-733	1	SGOT Elevated? 1=Yes 2=No 3=Not Done 4=Unknown	171 32 16 1	
551	734-734	1	CPK Elevated? 1=Yes 2=No 3=Not Done 4=Unknown	194 26 2 0	
552	735-735	1	CPK-MB Elevated? 1=Yes 2=No 3=Not Done 4=Unknown	103 13 80 16	
553	736-736	1	LDH Elevated? 1=Yes 2=No 3=Not Done 4=Unknown	134 82 5 0	
554	737-737	1	HBD Elevated? 1=Yes 2=No 3=Not Done 4=Unknown	13 4 190 5	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
555	738-738	1	<p>According to patient's hospital records, did the patient experience the following symptoms during the present event: severe discomfort occurring anywhere in the anterior chest, back, epigastrium, jaw, neck, shoulder, elbow, forearm or wrist? These symptoms must be present more than 30 minutes unless relieved by morphine or meperidine.</p> <p>1=Yes            2=No</p>	217 7	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
<u>BHAT INCIDENT CONGESTIVE HEART FAILURE -- FORM BH14</u>					
556	739-739	1	Computer algorithm classification: 1=Definite CHF 2=Probable CHF 3=Did not experience incident CHF	257 207 3373	556
557	740-745	6	Date of onset of symptoms.	464	
558	746-746	1	Abnormal venous distension present? 1=Yes 2=No 3=DK	178 254 32	
559	747-747	1	Basilar rales? 1=Yes 2=No 3=DK	348 108 8	
560	748-748	1	S3 gallop? 1=Yes 2=No 3=DK	248 189 26	
561	749-749	1	Hepatomegaly? 1=Yes 2=No 3=DK	67 363 32	
562	750-750	1	Peripheral edema? 1=Yes 2=No 3=DK	139 304 20	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
563	751-751	1	Did patient report increased shortness of breath or fatigue? 1=Yes 2=No 3=DK	425 32 7	
564	752-752	1	Chest x-ray findings: Cardiomegaly? 1=Yes 2=No 3=DK	260 109 95	
565	753-753	1	Increase in pulmonary vascular markings? 1=Yes 2=No 3=DK	269 95 100	
566	754-754	1	Was patient in pulmonary edema? 1=Yes 2=No 3=DK	157 285 21	
567	755-755	1	Was patient hospitalized? 1=Yes 2=No 3=DK	275 189 0	
568	756-761	6	Date of hospitalization	272	
569	762-764	3	Admission body weight, lbs	192	
570	765-767	3	Discharge body weight, lbs	185	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
571	768-768	1	Was digitalis newly prescribed for this event? 1=Yes 2=No 3=DK	251 208 5	
572	769-769	1	Were diuretics newly prescribed for this event? 1=Yes 2=No 3=DK	300 161 3	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
<u>BHAT INCIDENT STROKE -- FORM BH15</u>					
573	770-770	1	Computer algorithm classification: 1=Definite stroke 2=Probable stroke 3=Suspect stroke 4=Did not experience incident stroke	59 2 7 3769	573
574	771-776	6	Date of onset of the event.	68	
575	777-777	1	Was the patient hospitalized for or during the event? 1=Yes 2=No	61 7	
576	778-783	6	If yes, date of admission to hospital.	61	
577	784-784	1	Were any of the following objective neurological deficits observed during the event? Motor weakness? 1=Yes, persisted more than 24 hours 2=Yes, did not persist 24 hours 3=No 4=DK	45 12 9 2	
578	785-785	1	Speech defect? 1=Yes, persisted more than 24 hours 2=Yes, did not persist 24 hours 3=No 4=DK	38 8 22 0	
579	786-786	1	Amaurosis or field defect? 1=Yes, persisted more than 24 hours 2=Yes, did not persist 24 hours 3=No 4=DK	14 2 41 9	



ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
580	787-787	1	Sensory symptoms? 1=Yes, persisted more than 24 hours 2=Yes, did not persist 24 hours 3=No 4=DK	28 5 29 5	
581	788-788	1	Gait disturbance? 1=Yes, persisted more than 24 hours 2=Yes, did not persist 24 hours 3=No 4=DK	30 10 22 5	
582	789-789	1	Alterations of consciousness? 1=Yes, persisted more than 24 hours 2=Yes, did not persist 24 hours 3=No 4=DK	15 12 40 1	
583	790-790	1	Vertigo or dysequilibrium? 1=Yes, persisted more than 24 hours 2=Yes, did not persist 24 hours 3=No 4=DK	6 10 38 13	
584	791-791	1	Bilateral blurred vision, diplopia? 1=Yes, persisted more than 24 hours 2=Yes, did not persist 24 hours 3=No 4=DK	7 6 43 11	
585	792-792	1	Did cerebral arteriography demonstrate a lesion consistent with the observed neurological deficit(s)? 1=Yes 2=No 3=Not Performed	5 3 60	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
586	793-793	1	Did lumbar puncture show evidence of bleeding? 1=Yes 2=No 3=Not Performed	3 11 54	
587	794-794	1	Was the brain scan supportive of the diagnosis of stroke? 1=Yes 2=No 3=Not Performed	14 10 44	
588	795-795	1	Was the CAT scan supportive of the diagnosis of stroke? 1=Yes 2=No 3=Not Performed	32 14 22	
589	796-796	1	The event was clinically diagnosed as: 1=Definite stroke 2=Probable stroke 3=Suspect but unconfirmed stroke 4=Not determined 5=Other	46 10 6 4 2	
590	797-797	1	The most probable primary cause of the stroke was: 1=Cerebral thrombosis 2=Embolism 3=Cerebral hemorrhage 4=Not determined 5=Does not apply	19 24 8 15 2	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
<u>BHAT ECG CODING FORM -- FORM BH20</u> (See Attached Minnesota Code Appendix)					
591	798-798	1	Baseline form present? 1=Yes 2=No	3720 117	
592	799-799	1	First annual form present? 1=Yes 2=No	3209 628	
593	800-800	1	Second annual form present? 1=Yes 2=No	1789 2048	
594	801-801	1	Third annual form present? 1=Yes 2=No	276 3561	
595	802-807	6	Date of baseline form	3720	
596	808-810	3	Heart rate (per minute)	3717	596
597	811-814	4	QRS Axis (+ or -) (-99=Missing)	3718	597
598	815-816	2	Max. R Height (mms)		
599	817-818	2	Lead I, II, III (-9=Missing) Lead V <sub>4</sub> , V <sub>5</sub> , V <sub>6</sub> (-9=Missing)	3719 3719	598 599
600	819-820	2	Max. S Depth (mms)		
601	821-822	2	Lead I, II, III (-9=Missing) Lead V <sub>1</sub> , V <sub>2</sub> , V <sub>3</sub> (-9=Missing)	3720 3718	600 601
602	823-825	3	T Height (mms) (+ or -) (-99=Missing)	3716	602

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
603	826-828	3	QX Duration (seconds) (.99=Missing)	3607	603
604	829-831	3	QT Duration (seconds) (.99=Missing)	3702	604
605	832-833	2	Q and QS Patterns (1-X-X) (See Attached Minnesota Code, Section I):		
606	834-835	2	Lateral Leads (I, aVL, V <sub>6</sub> ) (-9=Missing)	3717	
607	836-837	2	Inferior Leads (II, III aVF) (-9=Missing)	3719	
		2	Anterior Leads (V <sub>1</sub> , V <sub>2</sub> , V <sub>3</sub> , V <sub>4</sub> , V <sub>5</sub> ) (-9=Missing)	3718	
608	838-839	2	ST Junction and ST Segment Depression (4-X-X) (See Attached Minnesota Code, Section II):		
609	840-841	2	Lateral Leads (-9=Missing)	3719	
610	842-843	2	Inferior Leads (-9=Missing)	3719	
		2	Anterior Leads (-9=Missing)	3718	
611	844-844	1	T Wave Changes (5-X) (See Attached Minnesota Code, Section III):		
612	845-845	1	Lateral Leads (9=Missing)	3720	
613	846-846	1	Inferior Leads (9=Missing)	3720	
		1	Anterior Leads (9=Missing)	3720	
614	847-847	1	ST Segment Elevation (9-2) (See Attached Minnesota Code, Section IV):		
615	848-848	1	Lateral Leads (9=Missing)	3719	
616	849-849	1	Inferior Leads (9=Missing)	3720	
		1	Anterior Leads (9=Missing)	3720	
617	850-850	1	High Amplitude R Waves (3-X) (See Attached Minnesota Code, Section V) (9=Missing)		
618	851-852	2	AV Conduction Defect (6-X) (See Attached Minnesota Code, Section VI) (-9=Missing)		
				3720	
				3720	
				3720	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
619	853-854	2	Ventricular Conduction Defect (7-X) (See Attached Minnesota Code, Section VII) (-9=Missing)	3719	
620	855-855	1	Estes' Code (See Attached Minnesota Code, Section VIII) (9=Missing)	3719	
621	856-856	1	Arrhythmias (See Attached Minnesota Code, Section IX): 8-1-X (9=Missing)	3719	
622	857-857	1	8-2-X (9=Missing)	3720	
623	858-858	1	8-3-X (9=Missing)	3720	
624	859-859	1	8-4-X (9=Missing)	3720	
625	860-860	1	8-5-X (9=Missing)	3720	
626	861-861	1	8-6-X (9=Missing)	3720	
627	862-863	2	Ectopic Codes (See Attached Minnesota Code, Section X): SVPB (-9=Missing)	3720	
628	864-865	2	VPB (-9=Missing)	3720	
629	866-866	1	Runs, Bigeminy (0=Missing)	3720	
630	867-867	1	Multiforms (9=Missing)	3720	
631	868-869	2	T-R' interval (-9=Missing)	3716	
632	870-875	6	Date of first annual form	3209	
633	876-878	3	Heart rate (per minute)	3207	
634	879-882	4	QRS Axis (+ or -) (-999=Missing)	3208	597
635	883-884	2	Max. R Height (mms)		
636	885-886	2	Lead I, II, III (-9=Missing) Lead V <sub>4</sub> , V <sub>5</sub> , V <sub>6</sub> (-9=Missing)	3208 3206	598 599

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
637	887-888	2	Max. S Depth (mms)	3207	600
638	889-890	2	Lead I, II, III (-9=Missing) Lead V <sub>1</sub> , V <sub>2</sub> , V <sub>3</sub> (-9=Missing)	3205	601
639	891-893	3	T Height (mms) (+ or -) (-99=Missing)	3205	602
640	894-896	3	QX Duration (seconds) (.99=Missing)	3108	603
641	897-899	3	QT Duration (seconds) (.99=Missing)	3196	604
642	900-901	2	Q and QS Patterns (1-X-X) (See Attached Minnesota Code, Section I)	3209	
643	902-903	2	Lateral Leads (-9=Missing)	3208	
644	904-905	2	Inferior Leads (-9=Missing) Anterior Leads (-9=Missing)	3209	
645	906-907	2	ST Junction and ST Segment Depression (4-X-X) (See Attached Minnesota Code, Section II)	3209	
646	908-909	2	Lateral Leads (-9=Missing)	3209	
647	910-911	2	Inferior Leads (-9=Missing) Anterior Leads (-9=Missing)	3209	
648	912-912	1	T Wave Changes (5-X) (See Attached Minnesota Code, Section III)	3209	
649	913-913	1	Lateral Leads (9=Missing)	3209	
650	914-914	1	Inferior Leads (9=Missing) Anterior Leads (9=Missing)	3209	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
651	915-915	1	ST Segment Elevation (9-2) (See Attached Minnesota Code, Section IV)	3209	
652	916-916	1	Lateral Leads (9=Missing)	3209	
653	917-917	1	Inferior Leads (9=Missing) Anterior Leads (9=Missing)	3209	
654	918-918	1	High Amplitude R Waves (3-X) (See Attached Minnesota Code, Section V) (9=Missing)	3209	
655	919-920	2	AV Conduction Defect (6-X) (See Attached Minnesota Code, Section VI) (-9=Missing)	3208	
656	921-922	2	Ventricular Conduction Defect (7-X) (See Attached Minnesota Code, Section VII) (-9=Missing)	3209	
657	923-923	1	Estes' Code (See Attached Minnesota Code, Section VIII) (9=Missing)	3209	
Arrhythmias (See Attached Minnesota Code, Section IX):					
658	924-924	1	8-1-X (9=Missing)	3206	
659	925-925	1	8-2-X (9=Missing)	3209	
660	926-926	1	8-3-X (9=Missing)	3209	
661	927-927	1	8-4-X (9=Missing)	3208	
662	928-928	1	8-5-X (9=Missing)	3209	
663	929-929	1	8-6-X (9=Missing)	3209	
Ectopic Codes: (See Attached Minnesota Code, Section X):					
664	930-931	2	SVPB (-9=Missing)	3209	
665	932-933	2	VPB (-9=Missing)	3209	
666	934-934	1	Runs, Bigeminy (0=Missing)	3209	
667	935-935	1	Multiforms (9=Missing)	3208	
668	936-937	2	T-R' interval (-9=Missing)	3207	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
669	938-943	6	Date of second annual form	1789	
670	944-946	3	Heart rate (per minute)	1788	
671	947-950	4	QRS Axis (+ or -) (-99=Missing)	1788	597
672	951-952	2	Max. R Height (mms):		
673	953-954	2	Lead I, II, III (-9=Missing)	1788	598
			Lead V <sub>4</sub> , V <sub>5</sub> , V <sub>6</sub> (-9=Missing)	1787	599
674	955-956	2	Max. S Depth (mms):		
675	957-958	2	Lead I, II, III (-9=Missing)	1789	600
			Lead V <sub>1</sub> , V <sub>2</sub> , V <sub>3</sub> (-9=Missing)	1789	601
676	959-961	3	T Height (mms) (+ or -) (-99=Missing)	1785	602
677	962-964	3	QX Duration (seconds) (.99=Missing)	1745	603
678	965-967	3	QT Duration (seconds) (.99=Missing)	1784	604
679	968-969	2	Q and QS Patterns (1-X-X)		
680	970-971	2	(See Attached Minnesota Code, Section I):		
681	972-973	2	Lateral Leads (I, aVL, V <sub>6</sub> ) (-9=Missing)	1789	
			Inferior Leads (II, III, aVF) (-9=Missing)	1788	
			Anterior Leads (V <sub>1</sub> , V <sub>2</sub> , V <sub>3</sub> , V <sub>4</sub> , V <sub>5</sub> ) (-9=Missing)	1788	
682	974-975	2	ST Junction and ST Segment Depression (4-X-X)		
683	976-977	2	(See Attached Minnesota Code, Section II):		
684	978-979	2	Lateral Leads (-9=Missing)	1789	
			Inferior Leads (-9=Missing)	1788	
			Anterior Leads (-9=Missing)	1789	



ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
685	980-980	1	T Wave Changes (5-X) (See Attached Minnesota Code, Section III):	1789	
686	981-981	1	Lateral Leads (9=Missing)	1789	
687	982-982	1	Inferior Leads (9=Missing) Anterior Leads (9=Missing)	1789	
688	983-983	1	ST Segment Elevation (9-2) (See Attached Minnesota Code, Section IV):	1789	
689	984-984	1	Lateral Leads (9=Missing)	1789	
690	985-985	1	Inferior Leads (9=Missing) Anterior Leads (9=Missing)	1789	
691	986-986	1	High Amplitude R Waves(3-X) (See Attached Minnesota Code, Section V) (9=Missing)	1789	
692	987-988	2	AV Conduction Defect (6-X) (See Attached Minnesota Code, Section VI) (-9=Missing)	1789	
693	989-990	2	Ventricular Conduction Defect (7-X) (See Attached Minnesota Code, Section VII) (-9=Missing)	1789	
694	991-991	1	Estes' Code (See Attached Minnesota Code, Section VIII) (9=Missing)	1789	
695	992-992	1	Arrhythmias: (See Attached Minnesota Code, Section IX):	1788	
696	993-993	1	8-1-X (9=Missing)	1789	
697	994-994	1	8-2-X (9=Missing)	1789	
698	995-995	1	8-3-X (9=Missing)	1789	
699	996-996	1	8-4-X (9=Missing)	1789	
700	997-997	1	8-5-X (9=Missing) 8-6-X (9=Missing)	1789	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
701	998-999	2	Ectopic Codes: (See Attached Minnesota Code, Section X)		
702	1000-1001	2	SVPB (-9=Missing)	1789	
703	1002-1002	1	VPB (-9=Missing)	1789	
704	1003-1003	1	Runs, Bigeminy (0=Missing)	1789	
705	1004-1005	2	Multiforms (9=Missing) T-R' interval (-9=Missing)	1787	
706	1006-1011	6	Date of third annual form	276	
707	1012-1014	3	Heart rate (per minute)	276	
708	1015-1018	4	QRS Axis (+ or -) (-999=Missing)	275	597
709	1019-1020	2	Max. R Height (mms):		
710	1021-1022	2	Lead I, II, III (-9=Missing) Lead V <sub>4</sub> , V <sub>5</sub> , V <sub>6</sub> (-9=Missing)	276 276	598 599
711	1023-1024	2	Max. S Depth (mms):		
712	1025-1026	2	Lead I, II, III (-9=Missing) Lead V <sub>1</sub> , V <sub>2</sub> , V <sub>3</sub> (-9=Missing)	276 276	600 601
713	1027-1029	3	T Height (mms) (+ or -) (-99=Missing)	276	602
714	1030-1032	3	QX Duration (seconds) (.99=Missing)	272	603
715	1033-1035	3	QT Duration (seconds) (.99=Missing)	276	604
716	1036-1037	2	Q and QS Patterns (1-X-X) (See Attached Minnesota Code, Section I):		
717	1038-1039	2	Lateral Leads (I, aVL, V <sub>6</sub> ) (-9=Missing)	276	
718	1040-1041	2	Inferior Leads (II, III aVF) (-9=Missing) Anterior Leads (V <sub>1</sub> , V <sub>2</sub> , V <sub>3</sub> , V <sub>4</sub> , V <sub>5</sub> ) (-9=Missing)	276 276	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
719	1042-1043	2	ST Junction and ST Segment Depression (4-X-X) (See Attached Minnesota Code, Section II):	276	
720	1044-1045	2	Lateral Leads (-9=Missing)	276	
721	1046-1047	2	Inferior Leads (-9=Missing) Anterior Leads (-9=Missing)	276	
722	1048-1048	1	T Wave Changes (5-X) (See Attached Minnesota Code, Section III):	276	
723	1049-1049	1	Lateral Leads (9=Missing)	276	
724	1050-1050	1	Inferior Leads (9=Missing) Anterior Leads (9=Missing)	276	
725	1051-1051	1	ST Segment Elevation (9-2): (See Attached Minnesota Code, Section IV):	276	
726	1052-1052	1	Lateral Leads (9=Missing)	276	
727	1053-1053	1	Inferior Leads (9=Missing) Anterior Leads (9=Missing)	276	
728	1054-1054	1	High Amplitude R Waves (3-X) (See Attached Minnesota Code, Section V) (9=Missing)	276	
729	1055-1056	2	AV Conduction Defect (6-X) (See Attached Minnesota Code, Section VI) (-9=Missing)	276	
730	1057-1058	2	Ventricular Conduction Defect (7-X) (See Attached Minnesota Code, Section VII): (-9=Missing)	276	
731	1059-1059	1	Estes' Code (See Attached Minnesota Code, Section VIII) (9=Missing)	276	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
732	1060-1060	1	Arrhythmias (See Attached Minnesota Code, Section IX) 8-1-X (9=Missing) 8-2-X (9=Missing) 8-3-X (9=Missing) 8-4-X (9=Missing) 8-5-X (9=Missing) 8-6-X (9=Missing)	276	
733	1061-1061	1		276	
734	1062-1062	1		276	
735	1063-1063	1		276	
736	1064-1064	1		276	
737	1065-1065	1		276	
			Ectopic Codes (See Attached Minnesota Code, Section X): SVPB (-9=Missing) VPB (-9=Missing) Runs, Bigeminy (0=Missing) Multiforms (9=Missing) T-R' interval (-9=Missing)		
738	1066-1067	2		276	
739	1068-1069	2		276	
740	1070-1070	1		276	
741	1071-1071	1		276	
742	1072-1073	2		276	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
<u>LAB RESULT RECORD -- FORM BH34</u>					
743	1074-1082	9	Propranolol (Propranolol Group only) (ng/ml serum): At Baseline	1652	743
744	1083-1091	9	At First annual visit	1635	744
745	1092-1100	9	At Second annual visit	926	744
746	1101-1109	9	At Third annual visit	151	744
747	1110-1118	9	Creatinine (mg/100 ml serum): At Baseline	3745	747
748	1119-1127	9	At First annual visit	3230	744
749	1128-1136	9	At Second annual visit	1820	744
750	1137-1145	9	At Third annual visit	299	744
751	1146-1154	9	Potassium (mEq/l serum): At Baseline	3744	751
752	1155-1163	9	At First annual visit	3229	744
753	1164-1172	9	At Second annual visit	1820	744
754	1173-1181	9	At Third annual visit	299	744
755	1182-1190	9	SGOT (IU/l serum at 30°C): At Baseline	3741	755
756	1191-1199	9	At First annual visit	3191	744
757	1200-1208	9	At Second annual visit	1781	744
758	1209-1217	9	At Third annual visit	293	744
759	1218-1226	9	Cholesterol (mg/100 ml serum): At Baseline	3747	759
760	1227-1235	9	At First annual visit	3230	744
761	1236-1244	9	At Second annual visit	1820	744
762	1245-1253	9	At Third annual visit	299	744

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
763	1254-1254	1	<p>Did patient die? 1=Yes 2=No 3=DK</p>	326 3500 11	
764	1255-1260	6	Date last known alive, or date of death.	3837	
765	1261-1263	3	A) <u>Underlying Cause of Death</u> What is the most important underlying cause of death?	326	765
766	1264-1266	3	What is the contributing underlying cause of death?	23	765
767	1267-1269	3	B) <u>Immediate Mechanism of Death (Immediate Cause, Cardiovascular Death Only)</u> Specify the most important immediate mechanism of death.	298	767
768	1270-1272	3	Specify the contributing immediate mechanism of death.	50	767
769	1273-1273	1	<p>C) <u>General Classification of Death</u> Death was due to: 1=Atherosclerotic heart disease (including death associated with cardiovascular surgery related to coronary heart disease) 2=Cardiovascular disease other than atherosclerotic heart disease 3=Non-cardiovascular cause</p>	283 15 28	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
770	1274-1274	1	Death was: 1=Sudden death, defined as death within one hour after onset of acute symptoms 2=Sudden death, defined as death more than one hour but within 24 hours after onset of acute symptoms 3=Sudden death, defined as unexpected collapse or loss of consciousness without warning symptoms 4=Not a sudden death	44  64  109 109	
771	1275-1275	1	Incident Definite Nonfatal Recurrent MI 1=Yes 2=No	186 3651	533
772	1276-1281	6	Date of First Definite Nonfatal Recurrent MI	186	
773	1282-1282	1	Incident Definite or Probable Nonfatal Recurrent MI 1=Yes 2=No	224 3613	533
774	1283-1288	6	Date of First Definite or First Probable Nonfatal Recurrent MI	224	
775	1289-1289	1	Combined Incidence of Definite Nonfatal MI and/or Atherosclerotic Mortality 1=Yes 2=No	441 3396	533
776	1290-1295	6	Date of First Definite Nonfatal MI or Date of Atherosclerotic Mortality	441	
777	1296-1296	1	Incident Definite CHF 1=Yes 2=No	257 3580	556
778	1297-1302	6	Date of First Occurrence	257	

ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
779	1303-1303	1	Incident Definite or Probable CHF 1=Yes 2=No	464 3373	556
780	1304-1309	6	Date of First Occurrence	464	
781	1310-1310	1	Incident Rose Questionnaire Angina 1=Yes 2=No	1480 2357	781
782	1311-1316	6	Date of Notation of Angina	1480	
783	1317-1317	1	Incident Physician's Opinion of Angina 1=Yes 2=No	2314 1523	
784	1318-1323	6	Date of Notation of Angina	2314	
785	1324-1324	1	Coronary By-Pass Surgery During Follow-up Period 1=Yes 2=No	376 3461	
786	1325-1330	6	Date of Surgery	376	
787	1331-1331	1	Cardiac Catheterization During Follow-up Period 1=Yes 2=No	864 2973	
788	1332-1337	6	Date of Catheterization	864	



ITEM	TAPE LOCATION	SIZE	ITEM DESCRIPTION AND CODES	NO.	COMMENT NO.
<u>24-HOUR AMBULATORY ECG (HOLTER) DATA</u>					
789	1338-1345	8	Average Number of VPB's/hr at Baseline (Missing Values Coded as -.999)	3290	789
790	1346-1353	8	Average Number of VT Events/hr at Baseline (Missing Values Coded as -.999)	3290	790
791	1354-1361	8	Average Number of VPB Pairs/hr at Baseline (Missing Values Coded as -.999)	3290	791
792	1362-1362	1	Multiforms at Baseline? 1=Yes 2=No (-.999=Missing)	1056 2234	
793	1363-1370	8	Average Number of VPB's/hr at 6 Weeks (Missing Values Coded as -.999)	928	793
794	1371-1378	8	Average Number of VT Events/hr at 6 Weeks (Missing Values Coded as -.999)	928	793
795	1379-1386	8	Average Number of VPB Pairs/hr at 6 Weeks (Missing Values Coded as -.999)	928	793
796	1387-1387	1	Multiforms at 6 Weeks? 1=Yes 2=No (-.999=Missing)	415 513	

COMMENTS ON ITEMS  
APPEARING IN THE BHAT DATA CODING MANUAL

Item No.	Comment
3.	Range: 061978 to 100280
5.	Propranolol Patients Only. Mean = 42.3 ng/ml
7.	Range: 081208 to 092349
10.	Each patient's qualifying myocardial infarction (QMI) had to be documented. To this end, ECG data were submitted to the Resting ECG Center in Minneapolis and symptom and enzyme data were submitted to the Coordinating Center in Houston. All the data were then collated and each QMI was either confirmed or not and its site noted.

BHAT Definitions for Elevated Serum Enzymes  
and for Typical MI Symptoms

A. Elevated Serum Enzymes:

An elevation of two or more of the enzymes SGOT, total LDH, total CPK and HBD, of at least twice the upper limits of normal in the local laboratory. (Instead of an elevation of CPK of at least twice the upper limits of normal, an elevation of CPK-MB may be used). Enzyme elevations must occur within 72 hours of the onset of symptoms of the acute event.

OR

An elevation of SGOT of at least three times the upper limit of normal in the local laboratory and occurring within 72 hours of the onset of symptoms of the acute event.

B. Typical Symptoms of Acute Myocardial Infarction:

Severe discomfort occurring anywhere in the anterior chest, back, epigastrium, jaw, neck, shoulder, elbow, forearm or wrist. This severe discomfort must be present more than 30 minutes unless relieved by morphine or meperidine.

Item  
No.

Comment

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ECG QMI Requirements

All QMI ECG's must be dated prior to the date of randomization. For Class I, all ECG's must be dated at or after onset of acute symptoms. For Class II at least one ECG must be dated no more than 5 days prior to date of admission. For Class III at least one ECG must be dated at or after onset of acute symptoms.

Criteria for the Classification of Qualifying MI

Class I. (The symptom and enzyme changes establish the infarct as acute. Only a single ECG recording is needed for this classification.)

1. Presence of Q or QS findings in any lead.

PLUS

2. ST abnormality (ST elevation 1 mm or more in limb leads or ST elevation 2 mm or more in leads V1-V4) and/or T wave abnormality (negative or inverted T wave of at least 1 mm or more).

PLUS

3. Absence of LBBB and WPW

PLUS

4. Elevated serum enzymes (see definitions above)

PLUS

5. Typical symptoms of acute myocardial infarction (see definitions above)

Class II. (An evolving pattern of Q or QS (appearance or disappearance) establishes the infarct as acute. Two or more ECG recordings from the acute event within 10 days of each other are needed for this classification, which does not require typical history or enzyme elevation.)

- 1a. One ECG record showing no Q wave and another record with Q or QS finding.

OR

- 1b. One ECG record showing a minor Q wave finding and another record showing a major Q or QS finding.

PLUS

Item  
No.

Comment

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2a. One ECG record showing no ST elevation and another record showing elevation (ST elevation 1 mm or more in limb leads or 2 mm or more in precordial leads V1-V4).

OR

2b. One ECG record showing no T wave inversion and another record showing T wave inversion or inverted T wave of at least 1 mm or more.

OR

2c. One ECG record showing no major ST segment depression and another record showing major ST segment depression (ST-J depression of at least 1 mm with ST segment horizontal or downsloping).

PLUS

3. Absence of LBBB or WPW

Class III. (This classification covers nontransmural infarcts and therefore does not require any Q or QS findings. The clinical symptom and enzyme changes establish the infarct as acute. Subgroup a requires only one ECG recording; subgroups b-d require two ECG records.)

1a. ST elevation (ST elevation 1 mm or more in limb leads or 2 mm or more in leads V1-V4) and ST depression (ST depression at least 1 mm with ST segment horizontal or downsloping) in the same record.

OR

1b. Increasing or decreasing ST elevation. One record indicates an ST elevation 1 mm or more in limb leads or 2 mm or more in V1-V4 and another record does not so indicate such an elevation. Least and greatest ST elevations are compared.

OR

Item  
No.

Comment

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- 1c. Increasing or decreasing ST depression by comparing the least and greatest ST segment abnormalities. One record shows no or minor ST depression (ST-J depression less than 0.5 mm with downsloping ST segment at least 0.5 mm below PR baseline or in ST-J depression of 1 mm or more with upsloping ST segment) and another record showing a major ST segment depression (in ST-J depression at least 0.5 mm with ST segment horizontal or downsloping).

OR

- 1d. Increasing or decreasing T waves by comparing the least and greatest T wave inversion. One record shows no or minor T wave inversion (T amplitude less than 1 mm inverted but not positive) and another record showing T wave inversion (T amplitude negative or inverted at least 1 mm).

PLUS

2. Absence of LBBB and WPW

PLUS

3. Elevated serum enzymes (see definitions).

PLUS

4. Typical symptoms of acute myocardial infarction (see definitions).

14. Location of Qualifying MI

The location categories are defined as follow:

- Anterior Category I - Q waves only present in any of leads I, aVL, and V6.  
Anterior Category II - Q waves only present in any of leads V1 through V5.  
Anterior Category III - Q waves only present in any of leads I, aVL, V6, and in any of leads V1 through V5.  
Anterior and Inferior - Q waves present in any of leads I, aVL, V6, or V1 through V5, and in any of leads II, III, and aVF.  
Inferior - Q waves only present in any of leads II, III, and aVF.

Item No.	Comment
Nontransmural	- No Q waves present and is a QMI Class III.
None of the above	- MI could not be documented as a BHAT qualifying MI (i.e., it is a non-BHAT MI).
15.	Range: 052678 to 092780
16.	Range: 053178 to 092780
17.	Recorded as Real Variable XX.X. This is the peak CPK value (as measured under the criteria specified in Comment #10) divided by the upper limit of the normal value at the clinical center. Mean = 10.4.
28.	The clinical centers followed the criteria for a qualifying myocardial infarction as specified under Comment #10. The classifications by the coordinating center (items #11, 12 and 13) are the official BHAT classifications.
29.	Rose Questionnaire Angina is defined as having had pain, discomfort, pressure, or heaviness in the sternum or left anterior chest within the previous year (excluding the month prior to the hospitalization for the BHAT myocardial infarction). The sensation must have occurred on effort and was relieved in 10 minutes or less by taking nitroglycerine or standing still.
45.	Rose Questionnaire Intermittent Claudication is defined as having pain in the calf brought on by strenuous walking that is relieved in 10 minutes or less after the patient has stopped or slowed down.
79.	Guidelines used in Ascertaining Physical Activity Level
	<u>Heavy Physical Activity:</u> This person does the equivalent of active training in sports such as soccer, handball, ice hockey, or basketball; or engages in very heavy activities such as ditch digging, carrying heavy weights, very heavy farm work, mining, or working as a lumberjack.
	<u>Moderate Physical Activity:</u> This person participates in recreational tennis, swimming, or jogging; or works in occupations such as mail carrier, telephone repair, light building and construction; or engages in full housework and home repairs.

Item No.	Comment
	<u>Light Physical Activity:</u> This person walks about one mile a day, leisurely rides a bicycle, fishes, bowls, golfs, or engages in light carpentry, light gardening, light industrial work, teaching, or light housework.
	<u>Almost None:</u> The sedentary person spends most waking hours in activities such as working at a desk, reading, watching television, or other quiet pursuits.
83.	Number of years cigarette smokers have smoked at baseline = 30.1 years.
89.	Zero is an acceptable value. There are no missing values.
91.	Mean age at death = 66.3 years
94.	Mean age at death = 66.0 years
98.	Mean Baseline Systolic Blood Pressure = 112.0 mm Hg.
99.	Mean Baseline Diastolic Blood Pressure = 72.4 mm Hg.
100.	Mean Baseline Heart Rate = 75.9 beats/minute
114.	Mean Baseline Height = 67.7 inches
115.	Mean Baseline Weight = 171.9 lbs.
153.	Range = 061978 to 100380
154.	Mean Baseline White Blood Cell Count = 8220.0/mm <sup>3</sup>
155.	Mean Baseline Hematocrit = 41.8%
161.	Real Variable X.X. Mean Baseline pH = 5.8
162.	Real Variable recorded as XX.X. Thoracic Ratio (%) is calculated as follows: $\frac{(MRD + MLD)}{ID} * 100$ The Mean at Baseline is 48.0%.
163.	Cardiomegaly is defined as a thoracic ratio of 50% or more.
172.	Real Variable recorded as X.X.
173.	Real Variable recorded as XX.X.

Item No.	Comment
195.	There are no third year X-rays.
201.	The definition of follow-up Rose Questionnaire Angina is similar to baseline Rose Questionnaire Angina (see Comment #29), except now the time period is since the patient's last completed visit (usually three months earlier).
292.	<p data-bbox="440 539 1419 667">New York Heart Association Classification: (Criteria Committee of New York Heart Association: Diseases of the Heart and Blood Vessels: Nomenclature and Criteria for Diagnosis, 6th Ed., Boston, Little, Brown and Co., 1964.)</p> <p data-bbox="440 667 1419 795"><u>Class I:</u> Patients with cardiac disease but without resulting limitation of physical activity. Ordinary physical activity does not cause undue fatigue, palpitation, dyspnea, or anginal pain.</p> <p data-bbox="440 795 1419 924"><u>Class II:</u> Patients with cardiac disease resulting in slight limitation of physical activity. They are comfortable at rest. Ordinary physical activity results in fatigue, palpitation, dyspnea, or anginal pain.</p> <p data-bbox="440 924 1419 1052"><u>Class III:</u> Patients with cardiac disease resulting in marked limitation of physical activity. They are comfortable at rest. Less than ordinary activity causes fatigue, palpitation, dyspnea, or anginal pain.</p> <p data-bbox="440 1052 1419 1207"><u>Class IV:</u> Patients with cardiac disease resulting in inability to carry on any physical activity without discomfort. Symptoms of cardiac insufficiency or of the anginal syndrome are present even at rest. If any physical activity is undertaken discomfort is increased.</p>

533. Definitions of New Nonfatal Cardiac Events

In order to qualify as a nonfatal MI, the patient had to survive hospitalization for the event.

The diagnostic criteria for the various classes of nonfatal MI are as follows. (See Comment #10 for definitions of elevated serum enzymes and typical MI symptoms.)

- a) Definite Class A. There is development of new abnormal Q wave findings (in any lead group) not present on the patient's last ECG. Typical symptoms or elevated serum enzymes are not required.
- b) Definite Class B. There are typical clinical symptoms compatible with MI in conjunction with serum enzyme elevation and newly developed nonspecific ECG findings.
  - 1. ST segment elevation and ST segment depression in the same record.

OR



Item  
No.

Comment

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2. Changes in ST segment elevation. One record shows no ST elevation and another record does show an ST elevation; or one has an ST elevation and the other shows a 100% change in ST elevation. For comparison between last prior ECG and acute event ECG, only an increase constitutes a new event. For comparison within a series of acute event ECGs, increase or decrease constitutes a new event.

OR

3. Changes in ST segment depression. One record shows no or minor ST segment depression and another record shows a major ST segment depression; or one has a major ST segment depression and the other shows a 100% change in ST segment depression. For comparison between last prior ECG and acute event ECG, only increase constitutes a new event. For comparison within a series of acute event ECGs, an increase or decrease constitutes a new event.

OR

4. Changes in T wave inversion. One record shows no or minor T wave inversion and another record shows major T wave inversion; or one has a major T wave inversion and the other shows a 100% change in T wave inversion. For comparison between last prior ECG and acute event ECG, only an increase constitutes a new event. For comparison within a series of acute event ECGs, increase or decrease constitutes a new event.

OR

5. New left bundle branch block. Requires complete left bundle branch block of all leads in all new event ECG's and not present in prior ECG.

- c) Probable. Serum enzymes are elevated and typical symptoms are present but there are no ECG findings.

556. Incident Congestive Heart Failure.

The diagnostic criteria for a Definite or Probable CHF are as follows:

- a) Definite CHF. S<sub>3</sub> Gallop or abnormal venous distension present

AND

Item No.	Comment
	<p>Basilar rales are present or there is an increase in pulmonary vascular markings on a chest X-ray</p> <p style="text-align: center;"><u>AND</u></p> <p>The patient reported fatigue or shortness of breath</p> <p>b) <u>Probable CHF</u>. Digitalis was newly prescribed for this event</p> <p style="text-align: center;"><u>OR</u></p> <p>S<sub>3</sub> Gallop was present</p> <p style="text-align: center;"><u>OR</u></p> <p>The patient reported fatigue or shortness of breath and abnormal venous distension or basilar rales or peripheral edema are present</p> <p style="text-align: center;"><u>OR</u></p> <p>There is an increase in pulmonary vascular markings on a chest X-ray.</p>
573.	<p><u>Incident Stroke</u>.</p> <p>The diagnostic criteria for the various classes of incident stroke are as follows:</p> <p>a) <u>Definite Stroke</u>. An event in which objective neurologic deficits (motor weakness, speech defect, amaurosis or field defect, sensory symptoms) are observed for more than 24 hours and are documented by a physician (i.e., observed by a study physician or recorded in the patient's medical records).</p> <p>b) <u>Probable Stroke</u>. An event in which objective neurologic deficits (drop attacks or gait disturbance, alteration of consciousness, vertigo or disequilibrium, bilateral blurred vision or diplopia) persist for more than 24 hours and are documented by a physician.</p> <p>c) <u>Suspect Stroke</u>. An event in which the above criteria for a definite or probable stroke are not met, but which the study physician filling out the stroke form felt existed.</p>
596.	Mean baseline ECG heart rate = 73.5 beats per minute.
597.	Acceptable Minnesota Code (MC) Range = -180° to 180°.
598.	Acceptable MC Range = 0 to 50 mm.

<u>Item No.</u>	<u>Comment</u>
599.	Acceptable MC Range = 0 to 50 mm.
600.	Acceptable MC Range = 0 to 50 mm.
601.	Acceptable MC Range = 0 to 50 mm.
602.	Acceptable MC Range = -20 to 20 mm.
603.	Acceptable MC Range = 0.00 to 0.75 seconds.
604.	Acceptable MC Range = 0.00 to 0.75 seconds.
743.	Real Variable recorded as XXXXXX.XX. Mean Propranolol level at Baseline = 42.3 ng/ml.
744.	Real Variable recorded as XXXXXX.XX.
747.	Real Variable recorded as XXXXXX.XX. Mean baseline creatinine level = 1.017 mg/100 ml.
751.	Real Variable recorded as XXXXXX.XX. Mean baseline potassium level = 4.47 mEq/l.
755.	Real variable recorded as XXXXXX.XX. Mean baseline SGOT = 20.033 IU/l.
759.	Real variable recorded as XXXXXX.XX. Mean baseline cholesterol = 213.3 mg/100 ml.
765.	<u>BHAT Codes for Cause of Death (Anatomic/Pathologic)</u>  <u>Cardiovascular underlying cause</u> 501 =Atherosclerotic coronary heart disease with recent or acute cardiac event (e.g., myocardial infarction, sudden unexpected or unobserved death) 601 =Atherosclerotic coronary heart disease without recent or acute cardiac event (e.g., chronic congestive heart failure) 603 =Valvular heart disease 605 =Pulmonary thromboembolism 606 =Non-cardiac vascular disease 607 =Other (Specify on coding form)  <u>Non-cardiovascular underlying cause</u> 801 =Malignant neoplasia 802 =Infection 803 =Gastrointestinal other than liver disease 804 =Liver disease 806 =Pulmonary disease other than pulmonary embolism 807 =Blood dyscrasia 810 =Suicide 813 =Other non-cardiovascular (Specify on coding form)

<u>Item No.</u>	<u>Comment</u>
767.	<u>BHAT Codes for Mechanism of Death</u> 701 =Cardiogenic shock 702 =Documented cardiac dysrhythmia (monitored dysrhythmia) 703 =Presumptive cardiac dysrhythmia <u>with</u> strip 713 =Presumptive cardiac dysrhythmia <u>without</u> strip 704 =Heart failure 705 =Ruptured myocardium with tamponade 706 =Stroke 708 =Acute pulmonary thromboembolism 709 =Cardiovascular surgery related to coronary heart disease 710 =Unknown 711 =Cardiovascular surgery unrelated to coronary heart disease (e.g., death related to valvular surgery, arterial aneurysm, embolectomy) 712 =Other (Specify on coding form)
781.	This is the first occurrence of incident (follow-up) Rose Questionnaire angina overall the follow-up visits (see Comments #29 and #201 for definition).
789.	Real variable recorded as XXXX.XXX. Mean of average number of VPBs/hour at baseline from 24-hour Ambulatory ECG = 13.3/hour.
790.	Real variable recorded as XXXX.XXX. Mean of average number of VT events/hour at baseline from 24-hour Ambulatory ECG = 0.025/hour.
791.	Real variable recorded as XXXX.XXX. Mean of average number of VPB pairs/hour at baseline from 24-hour Ambulatory ECG = 0.245/hour.
793.	Real variable recorded as XXXX.XXX.