

UNIVERSIDAD DE SEVILLA
SECRETARIA GENERAL

T.O.
E/8
TOMO II

Queda registrada esta Tesis Doctoral
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Sevilla,

El Jefe del Negocio de ~~la~~ **27 ABR 1989**

Alvarez de Sotillo



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APENDICE A.

**Análisis Global de todos los
Grupos.**

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BMDP7H - STEPWISE DISCRIMINANT ANALYSIS.
BMDP STATISTICAL SOFTWARE, INC.
1964 WESTWOOD BLVD. SUITE 202
(213) 475-5700
PROGRAM REVISED OCTOBER 1983
MANUAL REVISED -- 1983
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TO SEE REMARKS AND A SUMMARY OF NEW FEATURES FOR
THIS PROGRAM, STATE NEWS. IN THE PRINT PARAGRAPH.

THIS VERSION OF BMDP-83 HAS BEEN CONVERTED FOR
CDC NOS AND NOS/BE OPERATING SYSTEMS
BY BMDP PROJECT, VOGELBACK COMPUTING CENTER
NORTHWESTERN UNIVERSITY
2129 SHERIDAN ROAD
EVANSTON, ILLINOIS 60201
(312) 492-3681

RELEASE DATE, APRIL 1985
EXECUTED ON 88/11/18. AT 18.47.15.

PROGRAM CONTROL INFORMATION

/PROBLEM
TITLE = 'ANALISIS DISCRIMINANTE RECIENTE NACIDOS SALES BILIARES'.
/INPUT
FILE = 'MATRIZ'.
FORMAT = '(F5.1,1X,F5.1,1X,F5.1,1X,F5.1,1X,F5.1,1X,
F5.1,1X,F5.1,1X,F5.1,1X,F5.1,1X,F5.1,1X,F1.0)'.
VARIABLES = 11.
/VARIABLE
NAMES = SBT,TAURD,GLICO,COLICO,ODC,DC,RATIO1,RATIO2,RATIO3,RATIO4,GRUPO.
GROUPING = GRUPO.
/GROUP
CODES(11) = 1,2,3,4,5.
NAMES(11) = GRUPO1,CONT2,GRUPO3,GRUPO4,GRUPO5.
/DISC
JACK.
/PRINT
CORR.
WITHIN.
/PLOT
CANON.
/END/.

PROBLEM TITLE IS
ANALISIS DISCRIMINANTE RECIEH NACIDOS SALES BILIARES

NUMBER OF VARIABLES TO READ IN. 11
 NUMBER OF VARIABLES ADDED BY TRANSFORMATIONS. 0
 TOTAL NUMBER OF VARIABLES 11
 NUMBER OF CASES TO READ IN. TO END
 CASE LABELING VARIABLES
 MISSING VALUES CHECKED BEFORE OR AFTER TRANS. NEITHER
 BLANKS ARE. MISSING
 INPUT FILE. UNIT 7 MATRIX
 REWIND INPUT UNIT PRIOR TO READING. DATA. YES
 NUMBER OF WORDS OF DYNAMIC STORAGE. 11998
 NUMBER OF CASES DESCRIBED BY INPUT FORMAT 1

VARIABLES TO BE USED
 1 SBT 2 TAURO 3 GLICO 4 COLICO 5 ODC
 6 DC 7 RATI01 8 RATI02 9 RATI03 10 RATI04
 11 GRUFO

INPUT FORMAT IS
 (F5.1,IX,F5.1,IX,F5.1,IX,F5.1,IX,F5.1,IX,F5.1,IX,F5.1,IX,F5.1,
 IX,F1.0)

MAXIMUM LENGTH DATA RECORD IS 61 CHARACTERS.

BI N P U T V A R I A B L E S						VARIABLE RECORD COLUMNS FIELD TYPE						
INDEX	NAME	RECORD NO.	BEGIN	END	WIDTH	INDEX	NAME	RECORD NO.	BEGIN	END	FIELD WIDTH	TYPE
1	SBT	1	1	5	5.1	7	RATI01	1	37	41	5.1	F
2	TAURO	1	7	11	5.1	8	RATI02	1	43	47	5.1	F
3	GLICO	1	13	17	5.1	9	RATI03	1	49	53	5.1	F
4	COLICO	1	19	23	5.1	10	RATI04	1	55	59	5.1	F
5	ODC	1	25	29	5.1	11	GRUFO	1	61	61	1	F
6	DC	1	31	35	5.1							

TOLERANCE.010
 F-TO-ENTER.4.000 4.000
 F-TO-REMOVE.3.996 3.996
 METHOD.1
 MAXIMUM FORCED LEVEL.0
 MAXIMUM NUMBER OF STEPS.22
 GROUPING VARIABLE.11
 NUMBER OF GROUPS.5
 PRIOR PROBABILITIES.20000 .20000 .20000 .20000 .20000
 BASED ON INPUT FORMAT SUPPLIED 1 RECORDS READ PER CASE.

VARIABLE NO. NAME	MINIMUM LIMIT	MAXIMUM LIMIT	MISSING CODE	CATEGORY CODE	CATEGORY NAME	INTERVAL RANGE	GREATER THAN	LESS THAN	OR = TO
11 GRUFO				1.00000	GRUFO1				
				2.00000	CONT2				
				3.00000	GRUFO3				
				4.00000	GRUFO4				
				5.00000	GRUFO5				

NUMBER OF CASES READ. 108
 CASES WITH DATA MISSING OR BEYOND LIMITS 5
 REMAINING NUMBER OF CASES 103

IFAGE 3 EMPLOY ANALYSIS DISCRIMINANTE REGION MARIPOSAS CALLES BILIAFES

MEANS

VARIABLE	GRUPO1	CONT2	GRUPO3	GRUPO4	GRUPO5	ALL GPS.
1 SBT	83.69524	70.87917	220.46522	229.97627	118.79333	139.64951
2 TAURO	14.84782	13.63758	37.28261	41.71324	17.42508	25.71165
3 GLICO	16.75714	17.53333	51.65149	56.17391	37.14167	35.98495
4 COLICO	5.20000	5.15833	6.52627	11.51324	9.69167	7.41942
5 ODC	4.20000	5.27917	5.13476	8.42627	5.18333	5.71845
6 DC	1.14286	1.47917	2.22435	2.19565	1.73333	1.71748
7 RATIO1	14.76192	9.65833	54.93843	57.52174	15.86667	32.12621
8 RATIO2	23.39571	17.94167	42.63478	88.14348	32.72500	41.98488
9 RATIO3	1.81429	.89167	.96627	.87555	1.17588	.96682
10 RATIO4	1.18571	2.17500	1.23913	1.45652	1.229167	1.61748

COUNTS

VARIABLE	GRUPO1	CONT2	GRUPO3	GRUPO4	GRUPO5	ALL GPS.
1 SBT	110.45346	82.77571	315.28826	255.38128	79.65796	284.36311
2 TAURO	16.39266	24.99837	68.27569	68.24178	18.82112	42.95337
3 GLICO	24.68597	23.61603	122.12152	82.84842	37.51723	65.53221
4 COLICO	5.31197	6.17357	7.87125	13.23897	3.14251	8.31865
5 ODC	4.56990	6.16293	7.22751	9.64795	4.57498	6.93888
6 DC	2.88244	1.92827	2.98939	2.11477	1.71217	2.25732
7 RATIO1	29.33458	11.96339	116.18382	98.44323	11.28568	71.31457
8 RATIO2	41.31881	16.67521	59.64888	157.25522	28.89876	82.35444
9 RATIO3	.31825	.39325	.29655	.44778	.48255	.37158
10 RATIO4	.55162	1.24281	.64789	1.16827	1.13813	.98411

STANDARD DEVIATIONS

VARIABLE	GRUPO1	CONT2	GRUPO3	GRUPO4	GRUPO5	ALL GPS.
1 SBT	1.18117	1.57269	1.22275	.67262	1.47395	
2 TAURO	1.16622	1.83311	1.61653	1.44419	1.67858	
3 GLICO	1.46939	1.34692	1.97743	1.47485	1.82516	
4 COLICO	1.82153	1.19661	1.28612	1.14991	1.12812	
5 ODC	1.88537	1.16741	1.48756	1.14521	1.21342	
6 DC	1.82214	1.38262	1.48295	.96316	1.31432	
7 RATIO1	1.98718	1.23866	2.11365	1.57233	2.21983	
8 RATIO2	1.78646	.82941	1.37548	1.78482	1.96258	
9 RATIO3	.31377	.42992	.38943	.49726	.38465	
10 RATIO4	.46522	.57148	.52286	.80196	.45315	

WITHIN CORRELATION MATRIX

	SBT 1	TAURO 2	GLICO 3	COLICO 4	ODC 5	DC 6	RATIO1 7	RATIO2 8	RATIO3 9
SBT 1	1.00000								
TAURO 2	.52522	1.00000							
GLICO 3	.32330	.76482	1.00000						
COLICO 4	.68518	.62563	.35826	1.00000					
ODC 5	.51634	.44476	.29138	.68284	1.00000				
DC 6	.52644	.31233	.23113	.65727	.55521	1.00000			
RATIO1 7	.73863	.52822	.37455	.55511	.37517	.42196	1.00000		
RATIO2 8	.63873	.41421	.48354	.44429	.54877	.49228	.52497	1.00000	
RATIO3 9	-.87168	.18343	.88376	-.85315	-.12417	-.22316	-.11743	-.38258	1.00000
RATIO4 10	.14652	-.12728	.86562	.75145	.12131	.88413	-.85258	.48335	-.24646

WITHIN COVARIANCE MATRIX

	SET 1	TAURO 2	GLICO 3	COLICO 4	ODC 5	DC 6	RATIO1 7	RATIO2 8	RATIO3 9
SET 1	41764.28125								
TAURO 2	4618.48658	1844.99174							
GLICO 3	4329.77971	2152.83382	4294.47897						
COLICO 4	1163.55705	218.19383	196.28326	69.86692					
ODC 5	732.19713	138.52184	132.45792	39.26172	48.14827				
DC 6	248.82578	38.28376	34.19883	12.32685	8.26393	5.87548			
RATIO1 7	18648.26694	1617.44873	1751.81784	352.78163	165.85648	67.92728	5825.76888		
RATIO2 8	18749.93629	1465.21174	2618.12685	448.96378	389.81992	91.64454	3883.18116	6782.25424	
RATIO3 9	-5.43711	1.65878	2.84447	-.16414	-.32816	-.18718	-3.11181	-9.25678	.13827
RATIO4 10	29.46798	-5.37676	4.29658	.42875	.69184	.18689	-3.68475	32.68985	-.89813

RATIO4 10

RATIO4 10	.96849
-----------	--------

IPAGE 4 EMP7M ANALISIS DISCRIMINANTE RECEN NACIDOS SALES BILIARES

STEP NUMBER 0

VARIABLE	F TO FORCE REMOVE LEVEL	TOLERANCE	VARIABLE	F TO FORCE ENTER LEVEL	TOLERANCE
	DF= 4 99			DF= 4 98	
			1 SBT	2.298	1.000000
			2 TAURO	2.190	1.000000
			3 GLICO	1.803	1.000000
			4 COLICO	2.584	1.000000
			5 CDC	1.210	1.000000
			6 DC	.758	1.000000
			7 RATIO1	2.396	1.000000
			8 RATIO2	2.624	1.000000
			9 RATIO3	1.485	1.000000
			10 RATIO4	5.348	1.000000

STEP NUMBER 1
VARIABLE ENTERED 10 RATIO4

VARIABLE	F TO FORCE REMOVE LEVEL	TOLERANCE	VARIABLE	F TO FORCE ENTER LEVEL	TOLERANCE
	DF= 4 98			DF= 4 97	
10 RATIO4	5.348	1.000000	1 SBT	2.729	.978531
			2 TAURO	1.827	.983821
			3 GLICO	1.829	.995561
			4 COLICO	2.495	.997353
			5 CDC	1.263	.989735
			6 DC	.818	.992922
			7 RATIO1	2.876	.997243
			8 RATIO2	4.861	.837310
			9 RATIO3	2.885	.939255

U-STATISTIC OR WILKS' LAMBDA .8283283 DEGREES OF FREEDOM 1 4 98
APPROXIMATE F-STATISTIC 5.348 DEGREES OF FREEDOM 4.00 98.00

F - MATRIX DEGREES OF FREEDOM = 1 98

	GRUPO1	GRUPO2	GRUPO3	GRUPO4	GRUPO5
CONT2	11.32				
GRUPO3	.83	10.62			
GRUPO4	.83	6.26	.56		
GRUPO5	9.64	.11	9.82	5.68	
CLASSIFICATION FUNCTIONS					
GROUP =	GRUPO1	GRUPO2	GRUPO3	GRUPO4	GRUPO5
VARIABLE					
10 RATIO4	1.22439	2.24578	1.27946	1.58392	2.36625
CONSTANT	-2.33527	-4.85173	-2.48214	-2.78469	-7.32876

IFACE 5 EMPROM ANALISIS DISCRIMINANTE FECTEN MACRODS SALES FILIARES

STEP NUMBER 2
 VARIABLE ENTERED 8 RATIO2

VARIABLE	F TO REMOVE	FORCE LEVEL	TOLERANCE	VARIABLE	F TO ENTER	FORCE LEVEL	TOLERANCE
8 RATIO2	4.861	1	.837310	1 SET	.951	1	.577285
12 RATIO4	7.785	1	.837310	2 TAUR0	.835	1	.725016
				3 ELICO	.740	1	.746390
				4 COLIC0	2.157	1	.533009
				5 OFC	.556	1	.691278
				6 PC	.545	1	.741258
				7 FATI01	.829	1	.641013
				9 FATI03	1.683	1	.809997

U-STATISTIC OF WILKS' LAMBDA .4937674 DEGREES OF FREEDOM 2 4 98
 APPROXIMATE F-STATISTIC 5.076 DEGREES OF FREEDOM 8.00 194.00

F - MATRIX DEGREES OF FREEDOM = 2 97

	GRUF01	CONT2	GRUF03	GRUF04	GRUF05
CONT2	7.87				
GRUF03	.31	8.58			
GRUF04	3.37	12.23	1.74		
GRUF05	5.29	.14	5.83	7.41	

CLASSIFICATION FUNCTIONS
 a) GROUP =

VARIABLE	GRUF01	CONT2	GRUF03	GRUF04	GRUF05
8 RATIO2	-1.82293	-1.83777	.82214	.02496	-.09786
12 RATIO4	1.32319	2.57552	1.27445	1.27223	2.63150
CONSTANT	-2.35664	-4.32266	-2.42228	-2.83247	-4.49611

CLASSIFICATION MATRIX

GROUP	PERCENT CORRECT	NUMBER OF CASES CLASSIFIED INTO GROUP -					
		GRUF01	CONT2	GRUF03	GRUF04	GRUF05	
GRUF01	66.7	14	2	3	2	0	
CONT2	29.2	6	7	5	0	6	
GRUF03	13.0	15	0	3	3	2	
GRUF04	17.4	12	0	4	4	3	
GRUF05	33.3	3	3	2	0	4	
TOTAL	31.1	58	12	17	9	15	

IFAGE 6 ENDF7M ANALYSIS DISCRIMINANTE FECTEN NACTIOS SALES PILLIARES

JACHYNIFED CLASSIFICATION

GROUP	PERCENT CORRECT	NUMBER OF CASES CLASSIFIED INTO GROUP -				
		GRUFO1	CONT2	GRUFO3	GRUFO4	GRUFO5
GRUFO1	65.7	14	2	3	2	0
CONT2	23.2	6	7	5	2	1
GRUFO3	8.7	15	0	2	1	2
GRUFO4	17.4	12	2	4	1	3
GRUFO5	16.7	3	5	2	2	2
TOTAL	28.2	50	14	15	12	13

IFAGE 7 ENDF7M ANALYSIS DISCRIMINANTE FECTEN NACTIOS SALES PILLIARES

SUMMARY TABLE

STEP NUMBER	VARIABLE		F VALUE TO ENTER OR REMOVE	NUMBER OF VARIABLES INCLUDED	U-STATISTIC	APPROXIMATE F-STATISTIC	DEGREES OF FREEDOM	
	ENTERED	REMOVED						
1	12 RATIO4		5.3477	1	.8228	5.348	4.00	98.00
2	8 RATIO2		4.8522	2	.6938	5.076	8.00	194.00

INCORRECT CLASSIFICATIONS JACOBIANED MAHALANOBIS D-SQUARE FROM AND POSTERIOR PROBABILITY FOR GROUP -

GROUP	GRUPO1	GRUPO1	CONT2	GRUPO3	GRUPO4	GRUPO5
CASE						
1		.1 .298	1.8 .129	.3 .277	1.1 .182	2.0 .115
2		.5 .323	3.2 .087	.6 .311	1.5 .203	3.4 .075
3		.3 .312	2.4 .186	.4 .295	1.2 .194	2.7 .093
4		.7 .326	3.6 .077	.7 .319	1.6 .211	3.9 .067
5		.0 .257	1.0 .160	.1 .247	.7 .184	1.1 .151
6		.0 .279	1.3 .149	.2 .260	1.0 .176	1.5 .136
7		.1 .288	1.6 .136	.2 .270	1.0 .183	1.8 .123
8		.1 .296	1.8 .124	.2 .279	1.0 .190	2.1 .111
9	GRUPO3	.4 .296	2.9 .084	.3 .304	.8 .239	3.0 .078
10	GRUPO3	.2 .232	1.0 .154	.1 .242	.3 .217	1.0 .155
11		.0 .287	1.6 .131	.1 .272	.9 .191	1.8 .119
12	GRUPO3	.5 .272	3.1 .075	.3 .302	.5 .278	3.1 .073
13		.1 .297	1.8 .127	.2 .278	1.1 .185	2.0 .113
14		.1 .258	.8 .183	.3 .236	1.1 .156	1.0 .167
15		.1 .269	1.0 .167	.3 .247	1.1 .164	1.2 .152
16	GRUPO4	1.6 .191	3.5 .074	1.9 .266	.2 .305	3.2 .084
17		.1 .259	.8 .179	.3 .238	1.1 .161	1.0 .164
18	GRUPO4	3.0 .139	3.7 .095	2.0 .226	.7 .419	3.2 .121
19		.1 .280	1.3 .155	.2 .257	1.1 .169	1.5 .139
20	CONT2	2.5 .113	.2 .351	2.6 .108	3.4 .070	.2 .348
21	CONT2	2.9 .101	.3 .375	2.9 .098	3.8 .063	.3 .364
GROUP	CONT2	GRUPO1	CONT2	GRUPO3	GRUPO4	GRUPO5
CASE						
23	GRUPO1	.1 .262	.9 .174	.3 .239	1.1 .160	1.0 .165
24		1.4 .154	.0 .310	1.6 .139	2.3 .097	1.1 .162
25	GRUPO3	.1 .246	1.2 .141	.0 .251	.3 .216	1.1 .146
26	GRUPO3	.1 .245	1.2 .141	.0 .251	.3 .217	1.1 .146
27	GRUPO5	2.2 .123	.1 .341	2.4 .111	3.0 .081	.1 .344
28		1.4 .154	.0 .310	1.6 .139	2.3 .097	.1 .302
29		2.2 .127	.2 .351	2.5 .109	3.4 .071	.2 .341
30	GRUPO3	.1 .246	1.2 .141	.0 .251	.3 .216	1.1 .146
31		.5 .283	.2 .243	.7 .186	1.4 .133	.2 .234
32		1.4 .154	.0 .310	1.6 .139	2.3 .097	.1 .302
33		2.2 .127	.2 .351	2.5 .109	3.4 .071	.2 .341
34	GRUPO1	.0 .292	1.7 .125	.2 .274	.9 .189	1.8 .121
35	GRUPO5	31.0 .001	21.1 .252	32.4 .001	33.0 .001	18.9 .746
36	GRUPO5	17.5 .009	9.9 .369	10.1 .006	19.0 .004	8.9 .613
37	GRUPO1	.1 .250	.7 .189	.3 .229	1.1 .155	.0 .178
38		.8 .189	.1 .267	1.0 .171	1.7 .118	.2 .255
39	GRUPO1	.2 .239	.5 .207	.4 .216	1.3 .144	.6 .195
40	GRUPO5	2.1 .122	.3 .312	2.2 .120	2.4 .109	.1 .337
41	GRUPO5	3.1 .097	.5 .361	3.2 .089	3.7 .070	.3 .303
42	GRUPO3	.0 .266	1.5 .125	.0 .266	.4 .215	1.5 .128
43	GRUPO1	.1 .273	1.1 .159	.2 .250	1.0 .167	1.2 .151
44	GRUPO5	16.5 .009	9.1 .377	17.0 .007	17.9 .005	0.1 .602
45	GRUPO1	.2 .250	.7 .196	.4 .225	1.3 .147	.8 .183
46	GRUPO3	.3 .278	2.9 .075	.2 .297	.4 .268	2.8 .092

IFAGE 9 2MDF7M ANALISIS DISCRIMINANTE RECIBEN NACIDOS SALES BILIARES

GROUP	GRUF03	GRUF01	CONT2	GRUF03	GRUF04	GRUF05
CASE						
47	GRUF01	.1 .259	.9 .172	.2 .240	.9 .170	1.0 .159
48	GRUF01	.0 .268	1.2 .149	.1 .256	.7 .188	1.3 .139
49	GRUF01	.2 .238	.5 .198	.3 .219	1.0 .159	.7 .186
50	GRUF01	.0 .270	1.1 .159	.2 .250	.9 .175	1.3 .146
51	GRUF04	2.7 .139	2.3 .175	2.4 .164	1.2 .300	1.8 .222
52	GRUF01	.2 .227	.4 .202	.3 .213	.9 .164	.5 .194
53		.1 .279	1.9 .111	.1 .280	.5 .225	2.0 .105
54		.0 .259	.9 .168	.2 .242	.8 .174	1.0 .156
55	GRUF05	4.3 .094	2.2 .269	4.2 .099	2.9 .190	1.7 .348
56	GRUF01	.1 .297	1.9 .121	.2 .278	.9 .194	2.1 .189
57	GRUF04	.8 .276	3.8 .062	.5 .301	.6 .301	3.8 .061
58	GRUF04	1.5 .249	5.0 .044	1.2 .291	.8 .370	4.9 .046
59	GRUF04	11.4 .095	17.4 .025	10.0 .127	7.2 .767	16.6 .007
60	GRUF01	.5 .323	3.4 .078	.5 .307	1.2 .224	3.6 .069
61	GRUF01	.1 .294	2.0 .114	.2 .282	.8 .206	2.2 .105
62	GRUF01	.0 .268	1.1 .153	.1 .254	.8 .184	1.3 .142
63	GRUF01	.1 .260	.9 .175	.2 .238	1.0 .165	1.0 .162
64	GRUF01	.1 .260	.8 .178	.3 .237	1.0 .162	1.0 .163
65	GRUF01	.5 .326	3.3 .081	.6 .305	1.3 .215	3.5 .072
66	GRUF01	.1 .289	1.6 .137	.2 .260	1.0 .183	1.8 .123
67	GRUF05	1.7 .140	.1 .308	1.9 .123	2.1 .111	.0 .318
68	GRUF01	.2 .301	2.3 .104	.2 .289	.9 .211	2.5 .095
69		.2 .284	2.3 .097	.1 .289	.5 .239	2.4 .092
GROUP	GRUF04	GRUF01	CONT2	GRUF03	GRUF04	GRUF05
CASE						
70		2.7 .199	6.1 .037	2.0 .279	1.1 .441	5.8 .043
71	GRUF01	.0 .266	1.3 .138	.0 .263	.6 .202	1.4 .131
72	GRUF03	.2 .279	2.5 .090	.1 .293	.5 .250	2.6 .087
73	GRUF01	.3 .310	2.6 .094	.3 .302	1.1 .208	2.8 .085
74	GRUF05	1.8 .136	.1 .325	2.0 .125	2.7 .085	.0 .329
75	GRUF01	.2 .299	2.4 .099	.2 .296	.8 .215	2.6 .091
76		4.1 .186	8.2 .023	3.3 .280	2.2 .402	7.9 .028
77	GRUF01	.1 .262	.6 .182	.3 .239	1.2 .151	1.0 .166
78	GRUF01	.3 .228	.4 .212	.4 .213	1.1 .146	.5 .201
79		39.4 .023	47.4 .000	36.1 .119	32.2 .056	45.4 .001
80	GRUF01	.0 .281	1.3 .149	.2 .263	1.0 .173	1.5 .135
81	GRUF01	.7 .335	3.7 .074	.7 .322	1.6 .205	4.0 .064
82	GRUF05	9.7 .046	5.9 .084	9.0 .066	7.9 .115	5.0 .469
83		127.4 .001	123.0 .007	120.3 .027	113.5 .033	117.2 .132
84	GRUF03	.0 .272	1.7 .121	.0 .274	.5 .217	1.7 .116
85	GRUF01	.0 .265	1.3 .136	.0 .264	.5 .205	1.4 .130
86	GRUF01	.0 .269	1.2 .149	.1 .258	.8 .185	1.3 .139
87	GRUF01	.2 .239	.5 .210	.4 .218	1.3 .139	.6 .195
88	GRUF01	.1 .261	.9 .173	.2 .243	1.0 .163	1.0 .160
89	GRUF05	.4 .207	.3 .212	.4 .205	.8 .165	.3 .212
90	GRUF03	.0 .288	3.9 .060	.6 .315	.8 .279	4.0 .058
91	GRUF03	.7 .291	3.8 .062	.6 .315	.8 .273	3.9 .059
92	GRUF01	.1 .298	1.9 .120	.2 .284	1.0 .190	2.1 .108

TABLE 10 EMPLOYMENT ANALYSIS DISCRIMINANTE RECEN NACIDOS SALES BILIARES

GROUP	GRUPO5	GRUPO1	CONT2	GRUPO3	GRUPO4	GRUPO5
CASE						
93	CONT2	5.9 .056	1.7 .457	6.3 .247	7.0 .032	1.9 .406
94	CONT2	.6 .193	.1 .249	.8 .101	1.3 .137	.2 .240
95	GRUPO1	.3 .228	.4 .217	.4 .211	1.1 .149	.6 .195
96	CONT2	.4 .216	.3 .227	.5 .201	1.2 .145	.4 .210
97	CONT2	1.2 .158	.0 .291	1.4 .148	1.9 .113	.0 .290
98		2.7 .186	.3 .350	2.9 .098	3.4 .076	.3 .362
99		2.7 .114	.8 .295	2.5 .124	2.3 .141	.6 .326
100	GRUPO3	.1 .230	.8 .166	.1 .241	.4 .204	1.0 .151
101	GRUPO1	.2 .229	.5 .197	.3 .221	.8 .172	.7 .182
102	GRUPO1	.2 .229	.6 .189	.2 .225	.6 .183	.7 .175
103	GRUPO3	.0 .258	1.2 .144	.0 .260	.4 .214	1.5 .124
104	CONT2	22.1 .005	12.4 .698	22.4 .005	22.6 .004	14.1 .208

EIGENVALUES

.37071 .06695

CUMULATIVE PROPORTION OF TOTAL DISPERSION

.04702 1.00000

CANONICAL CORRELATIONS

.52005 .25051

VARIABLE COEFFICIENTS FOR CANONICAL VARIABLES

8 RATIO2 .00940 -.00937
 10 RATIO4 -1.03451 -.40368

VARIABLE STANDARDIZED (BY POOLED WITHIN VARIANCES) COEFFICIENTS FOR CANONICAL VARIABLES

8 RATIO2 1.92107 -.40231
 10 RATIO4 -211.41589 -17.33929

CONSTANT 1.27882 1.04598

GROUP CANONICAL VARIABLES EVALUATED AT GROUP MEANS

GRUPO1 .27202 .34830
 CONT2 -.00258 -.00006
 GRUPO3 .39771 .14645
 GRUPO4 .60061 -.36755
 GRUPO5 -.78431 -.10562

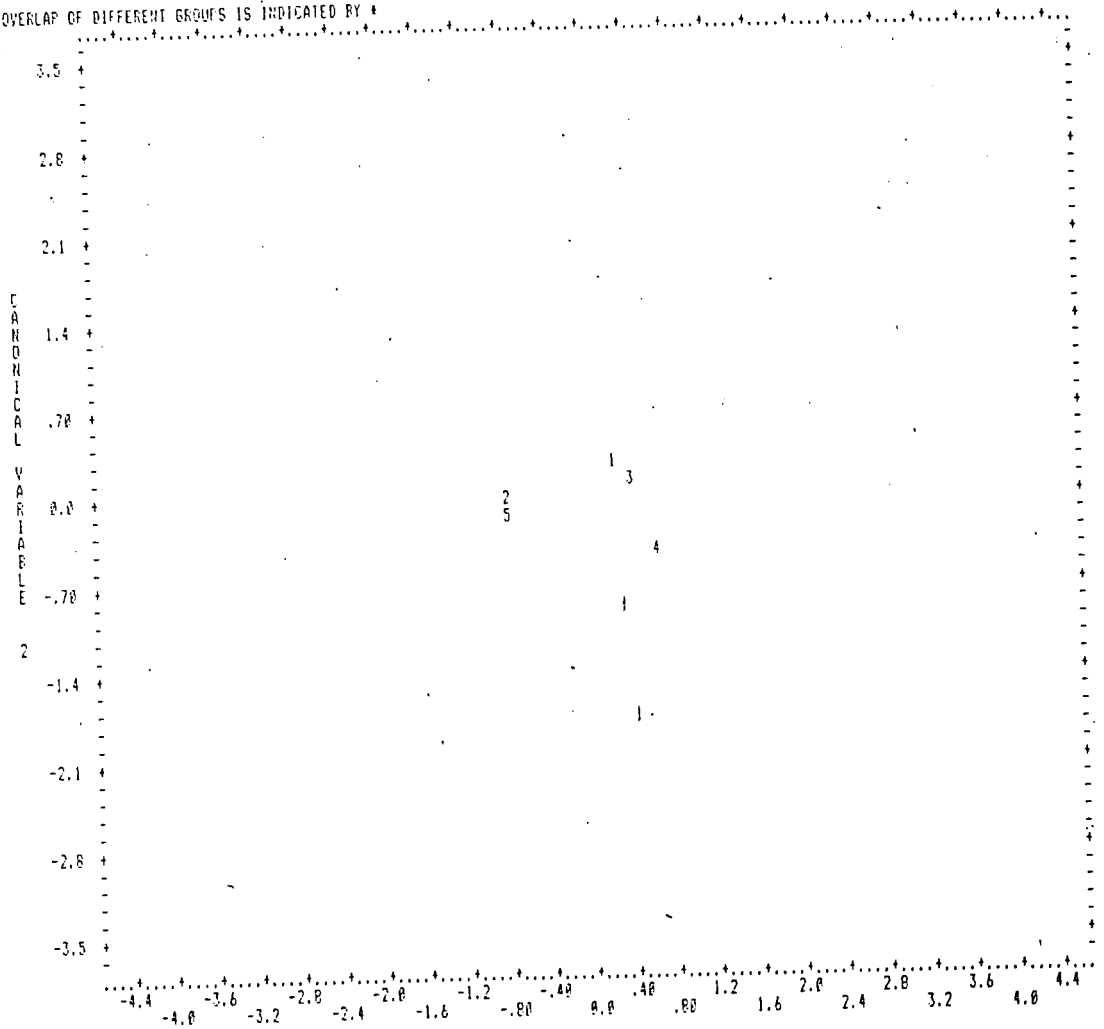
IFAGE 11 BMDP7M ANALISIS DISCRIMINANTE RECIEN NACIDOS SALES BILIARES

POINTS TO BE PLOTTED

GROUP	MEAN COORDINATES		SYMBOL FOR CASES	SYMBOL FOR MEAN
GRUPO1	.27	.35	A	1
GRUPO2	-.80	.00	B	2
GRUPO3	.40	.15	C	3
GRUPO4	.60	-.37	D	4
GRUPO5	-.78	-.19	E	5

FIGURE 12 BMDP7M ANALYSIS DISCRIMINANTE RECEN NACIDOS SALES PILIARES

OVERLAP OF DIFFERENT GROUPS IS INDICATED BY *



IFASE .13 EMPF7M ANALISIS DISCRIMINANTE RECEN NACIDOS SALES BILIARES
POINTS TO BE PLOTTED

GROUP	MEAN COORDINATES	SYMBOL FOR CASES	SYMBOL FOR MEAN
GRUF01	.27 .35	A	1
CONT2	-.88 .88	B	2
GRUF03	.48 .15	C	3
GRUF04	.68 -.37	D	4
GRUF05	-.78 -.19	E	5

GROUP GRUF01

CASE	X	Y	CASE	X	Y	CASE	X	Y
1	.37	.66	11	.36	.53	21	-1.38	.83
2	.77	.83	12	.95	.23			
3	.58	.74	13	.39	.64			
4	.89	.86	14	-.04	.49			
5	.13	.32	15	.87	.53			
6	.21	.54	16	.96	-.64			
7	.31	.59	17	-.91	.46			
8	.42	.61	18	.69	-1.22			
9	.83	.49	19	.16	.59			
10	.19	-.82	20	-1.19	.87			

GROUP CONT2

CASE	X	Y	CASE	X	Y	CASE	X	Y
23	-.82	.48	33	-1.19	.86	43	.89	.52
24	-.89	.84	34	.33	-.56	44	-3.45	-.84
25	-.24	.88	35	-4.55	-1.46	45	-.16	.47
26	-.24	.89	36	-3.55	-.89	46	.81	.22
27	-1.13	-.14	37	-.11	.42			
28	-.89	.84	38	-.59	.19			
29	-1.19	.86	39	-.23	.39			
30	-.24	.88	40	-.95	-.46			
31	-.45	.18	41	-1.34	-.37			
32	-.88	.84	42	.35	.25			

GROUP GRUF03

CASE	X	Y	CASE	X	Y	CASE	X	Y
47	.85	.41	57	1.13	.19	67	-.85	-.28
48	.22	.38	58	1.43	-.11	68	.68	.57
49	-.13	.30	59	2.87	-1.55	69	.68	.35
50	.14	.46	60	.89	.71			
51	.88	-1.27	61	.51	.52			
52	-.16	.18	62	.19	.41			
53	.55	.34	63	.82	.44			
54	.87	.38	64	.88	.45			
55	-.66	-1.46	65	.84	.76			
56	.44	.59	66	.31	.58			

GROUP GRUF04

CASE	X	Y	CASE	X	Y	CASE	X	Y
70	1.57	-.67	80	.23	.52	90	1.15	.31
71	.31	.29	81	.94	.81	91	1.12	.34
72	.77	.27	82	-1.85	-2.37	92	.46	.57
73	.71	.61	83	1.62	-7.33			
74	-.96	-.17	84	.46	.29			
75	.67	.51	85	.33	.27			
76	1.54	-.76	86	.23	.37			
77	-.82	.48	87	-.21	.37			
78	-.22	.24	88	.84	.41			
79	3.93	-3.75	89	-.22	-.85			

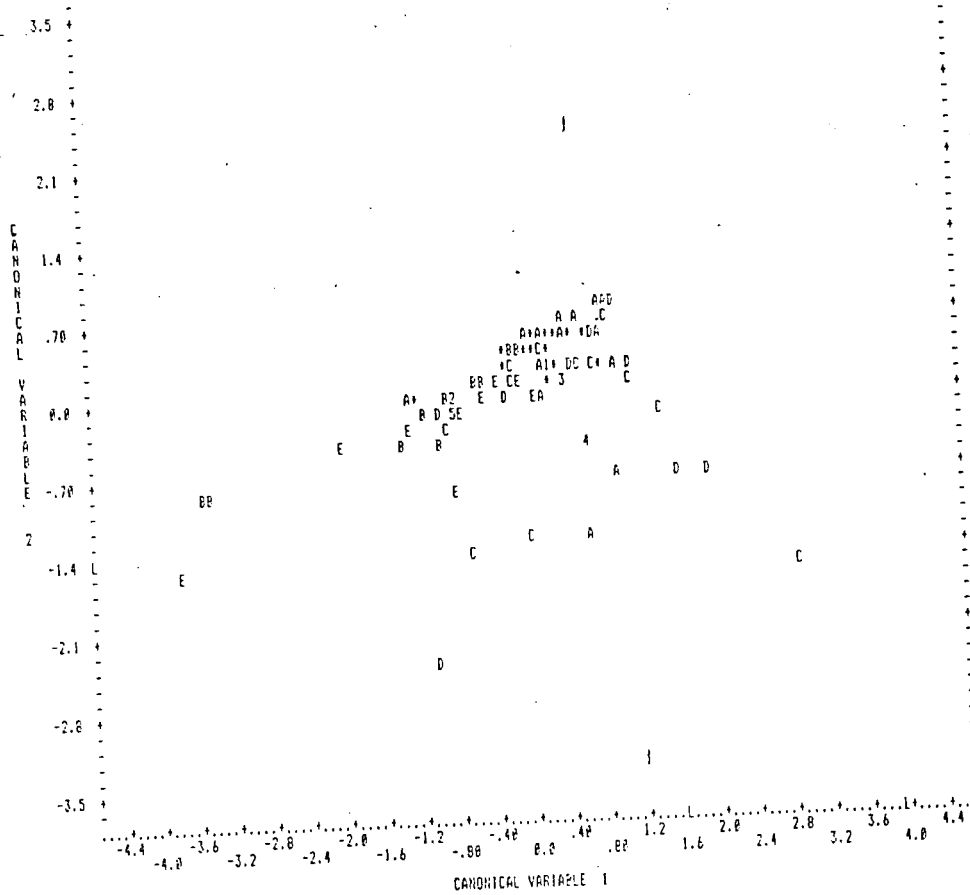
GROUP GRUF05

CASE	X	Y	CASE	X	Y
93	-2.84	-.39	103	.27	.18
94	-.47	.86	104	-3.73	-1.57
95	-.25	.27			
96	-.32	.28			
97	-.75	-.83			
98	-1.24	-.31			
99	-.82	-.83			
100	.11	.86			
101	-.12	.14			
102	-.85	.88			



FIGURE 14 BMDP7M ANALYSIS DISCRIMINANTE RECIBO NACIDOS SALES BILIARES

OVERLAP OF DIFFERENT GROUPS IS INDICATED BY *



IFAGE 15 BMDP7M ANALISIS DISCRIMINANTE RECIBI NACIDOS SALES BILIARES

NUMBER OF INTEGER WORDS OF STORAGE USED IN PRECEDING PROBLEM 4765
CPU TIME USED 9.877 SECONDS

IFAGE 15 BMDP7M

BMDP7M - STEPWISE DISCRIMINANT ANALYSIS.
EXECUTED ON 89/11/18. AT 18.47.52.

PROGRAM CONTROL INFORMATION

NO MORE CONTROL LANGUAGE.

PROGRAM TERMINATED

APENDICE B.

Análisis por parejas de Grupos.

IFASE 1
BMDP3D - ONE-SAMPLE AND TWO-SAMPLE T-TESTS
BMDP STATISTICAL SOFTWARE, INC.
1964 WESTWOOD BLVD. SUITE 202
(213) 475-5788
PROGRAM REVISED OCTOBER 1983
MANUAL REVISED -- 1983
COPYRIGHT (C) 1983 REGENTS OF UNIVERSITY OF CALIFORNIA

TO SEE REMARKS AND A SUMMARY OF NEW FEATURES FOR
THIS PROGRAM, STATE NEWS. IN THE PRINT PARAGRAPH.

THIS VERSION OF BMDP-83 HAS BEEN CONVERTED FOR
CDC MOS AND MOS/RE OPERATING SYSTEMS
BY BMDP PROJECT, VOGELBACK COMPUTING CENTER
NORTHWESTERN UNIVERSITY
2129 SHERIDAN ROAD
EVANSTON, ILLINOIS 60201
(312) 492-3681

RELEASE DATE, APRIL 1985
EXECUTED ON 88/11/25 AT 13.14.89.

: PROGRAM CONTROL INFORMATION

/PROBLEM TITLE = 'ANALISIS FOR PAREJAS DEGRUFOSSALES BILIARES'.
/INPUT FILE = 'MATRIZ'.
FORMAT = '(F5.1,IX,F5.1,IX,F5.1,IX,F5.1,IX,F5.1,IX,
F5.1,IX,F5.1,IX,F5.1,IX,F5.1,IX,F1.8)'.
VARIABLES = 11.
/VARIABLE NAMES = SBT,TAURO,GLICO,COLICO,QDC,DC,RATIO1,RATIO2,RATIO3,RATIO4,GRUPO.
GROUPING = GRUPO.
/GROUP CODES(11) = 1,2,3,4,5.
NAMES(11) = GRUPO1,CONT2,GRUPO3,GRUPO4,GRUPO5.
/TEST ROBUST.
:END/.



PROBLEM TITLE IS
ANALISIS DISCRIMINANTE RECEN HACIDOS SALES BILIARES

NUMBER OF VARIABLES TO READ IN. 11
 NUMBER OF VARIABLES ADDED BY TRANSFORMATIONS. 0
 TOTAL NUMBER OF VARIABLES 11
 NUMBER OF CASES TO READ IN. TO END
 CASE LABELING VARIABLES
 MISSING VALUES CHECKED BEFORE OR AFTER TRANS. NEITHER
 BLANKS ARE. MISSING
 INPUT FILE. UNIT 7 MATRIX
 REWIND INPUT UNIT PRIOR TO READING. YES
 NUMBER OF WORDS OF DYNAMIC STORAGE. 11998
 NUMBER OF CASES DESCRIBED BY INPUT FORMAT 1

VARIABLES TO BE USED
 1 SRT 2 TAURO 3 GLICO 4 COLICO 5 ODC
 6 DC 7 RATIO1 8 RATIO2 9 RATIO3 10 RATIO4
 11 GRUPO

INPUT FORMAT IS
 (FS.1,IX,FS.1,IX,FS.1,IX,FS.1,IX,FS.1,IX,FS.1,IX,FS.1,IX,FS.1,
 IX,FI.0)

MAXIMUM LENGTH DATA RECORD IS 61 CHARACTERS.

INPUT VARIABLES					VARIABLE		RECORD	COLUMNS		FIELD	TYPE
VARIABLE	RECORD	COLUMNS	FIELD	TYPE	INDEX	NAME	NO.	BEGIN	END	WIDTH	
INDEX	NAME	NO.	BEGIN	END	WIDTH						
1	SRT	1	1	5	5.1	F	7	37	41	5.1	F
2	TAURO	1	7	11	5.1	F	8	43	47	5.1	F
3	GLICO	1	13	17	5.1	F	9	49	53	5.1	F
4	COLICO	1	19	23	5.1	F	10	55	59	5.1	F
5	ODC	1	25	29	5.1	F	11	61	61	1	F
6	DC	1	31	35	5.1	F					

TEST TITLE IS
ANALISIS DISCRIMINANTE RECEN HACIDOS SALES BILIARES

INDICES OF VARIABLES TO BE ANALYZED 1 2 3 4 5 6 7 8 9 10
 USE COMPLETE CASES ONLY NO
 PRINT GROUP CORRELATION MATRICES. NO
 COMPUTE HOTELLING'S T SQUARE NO
 INDEX OF GROUPING VARIABLE. 11
 BASED ON INPUT FORMAT SUPPLIED 1 RECORDS READ PER CASE.

NUMBER OF CASES READ. 128
 CASES WITH GROUPING VALUES NOT USED. 5
 REMAINING NUMBER OF CASES 123

VARIABLE	MINIMUM	MAXIMUM	MISSING	CATEGORY	CATEGORY	INTERVAL RANGE	
NO. NAME	LIMIT	LIMIT	CODE	CODE	NAME	GREATER THAN	LESS THAN OR = TO
11	GRUPO						
				1.0000	GRUPO1		
				2.0000	GRUPO2		
				3.0000	GRUPO3		
				4.0000	GRUPO4		
				5.0000	GRUPO5		

GROUPS USED IN COMPUTATIONS 1 2 3 4 5

DIFFERENCES ON SINGLE VARIABLES

*****			GROUP		1 GRUPO1 (N= 21)		2 CONT2 (N= 24)	
# DC	VARIABLE NUMBER	5	1 GRUPO1	2 CONT2				
*****			MEAN	5.2752				
STATISTICS			STD DEV	6.1629				
P-VALUE			S.E.M.	1.2582				
DF			SAMPLE SIZE	21				
T (SEPARATE)	-.67	.5951	41.9	MAXIMUM	16.2000	16.8000	X	
T (POOLED)	-.65	.5134	43	MINIMUM	.6000	.3000	X	
T (TRIM SEP.)	-.61	.5448	38.2	MAX(2ND)	16.2000	16.8000	X	
T (TRIM POOLED)	-.60	.5534	39	MIN(2ND)	.9000	.3000	X	
F (FOR VARIANCES)				MX,ST.SC.	2.6259	1.8694	X	
LEVENE	3.41	.0717	1, 43	MN,ST.SC.	-.7878	-.8079	X	

*****			GROUP		1 ERUPO1 (N= 21)		2 CONT2 (N= 24)	
# DC	VARIABLE NUMBER	6	1 ERUPO1	2 CONT2				
*****			MEAN	1.4792				
STATISTICS			STD DEV	1.9283				
P-VALUE			S.E.M.	.4544				
DF			SAMPLE SIZE	21				
T (SEPARATE)	-.56	.5789	41.1	MAXIMUM	10.0000	6.0000	X	
T (POOLED)	-.56	.5768	43	MINIMUM	.1000	.2000	X	
T (TRIM SEP.)	-1.62	.1175	24.5	MAX(2ND)	1.0000	6.0000	X	
T (TRIM POOLED)	-1.52	.1364	39	MIN(2ND)	.2000	.3000	X	
F (FOR VARIANCES)				MX,ST.SC.	4.2532	2.3445	X	
LEVENE	1.22	.2747	1, 43	MN,ST.SC.	-.5088	-.6634	X	

*****			GROUP		1 ERUPO1 (N= 21)		2 CONT2 (N= 24)	
# RATIO1	VARIABLE NUMBER	7	1 ERUPO1	2 CONT2				
*****			MEAN	14.7619				
STATISTICS			STD DEV	29.3345				
P-VALUE			S.E.M.	6.4013				
DF			SAMPLE SIZE	21				
T (SEPARATE)	.74	.4631	25.8	MAXIMUM	124.0000	50.4000	X	
T (POOLED)	.78	.4384	43	MINIMUM	.4000	.5000	X	
T (TRIM SEP.)	.69	.4960	23.8	MAX(2ND)	72.0000	25.2000	X	
T (TRIM POOLED)	.72	.4731	39	MIN(2ND)	.5000	.5000	X	
F (FOR VARIANCES)				MX,ST.SC.	3.7239	3.4055	X	
LEVENE	2.26	.1398	1, 43	MN,ST.SC.	-.4996	-.7655	X	

*****			GROUP		1 ERUPO1 (N= 21)		2 CONT2 (N= 24)	
# RATIO2	VARIABLE NUMBER	8	1 ERUPO1	2 CONT2				
*****			MEAN	23.3857				
STATISTICS			STD DEV	41.3100				
P-VALUE			S.E.M.	9.0146				
DF			SAMPLE SIZE	21				
T (SEPARATE)	.55	.5770	25.7	MAXIMUM	156.0000	49.2000	X	
T (POOLED)	.59	.5560	43	MINIMUM	.9000	1.0000	X	
T (TRIM SEP.)	.39	.6972	24.5	MAX(2ND)	120.0000	45.2000	X	
T (TRIM POOLED)	.41	.6816	39	MIN(2ND)	1.2000	1.7000	X	
F (FOR VARIANCES)				MX,ST.SC.	3.2122	1.8745	X	
LEVENE	4.54	.0389	1, 43	MN,ST.SC.	-.5443	-1.0180	X	

DIFFERENCES ON SINGLE VARIABLES

*****			GROUP		1 GRUPO1 (N= 21)		2 CONT2 (N= 24)	
# RATIO3	VARIABLE NUMBER	9	1 GRUPO1	2 CONT2				
*****			MEAN	1.0143				
STATISTICS			STD DEV	.3103				
P-VALUE			S.E.M.	.0554				
DF			SAMPLE SIZE	21				
T (SEPARATE)	1.17	.2476	42.9	MAXIMUM	1.0000	2.1000	X	
T (POOLED)	1.16	.2534	43	MINIMUM	.4000	.5000	X	
T (TRIM SEP.)	1.33	.1903	36.5	MAX(2ND)	1.5000	1.0000	X	
T (TRIM POOLED)	1.33	.1914	39	MIN(2ND)	.4000	.5000	X	
F (FOR VARIANCES)				MX,ST.SC.	1.0404	3.1528	X	
LEVENE	.32	.5722	1, 43	MN,ST.SC.	-1.9302	-1.0219	X	

*****			GROUP		1 ERUPO1 (N= 21)		2 CONT2 (N= 24)	
# RATIO4	VARIABLE NUMBER	10	1 ERUPO1	2 CONT2				
*****			MEAN	1.1857				
STATISTICS			STD DEV	.5516				
P-VALUE			S.E.M.	.1204				
DF			SAMPLE SIZE	21				
T (SEPARATE)	-3.52	.0013	32.6	MAXIMUM	2.5000	5.0000	X	
T (POOLED)	-3.37	.0016	43	MINIMUM	.4000	.5000	X	
T (TRIM SEP.)	-3.39	.0019	31.2	MAX(2ND)	2.4000	4.7000	X	
T (TRIM POOLED)	-3.23	.0025	39	MIN(2ND)	.5000	.5000	X	
F (FOR VARIANCES)				MX,ST.SC.	2.3926	2.9169	X	
LEVENE	5.35	.0256	1, 43	MN,ST.SC.	-1.4244	-1.0259	X	



IFAGE 6 RMDPD ANALISIS DISCRIMINANTE RECEN NACIDOS SALES BILIARES

DIFFERENCES ON SINGLE VARIABLES

*****			GROUP	1 GRUPO1	3 GRUPO3	1 GRUPO1 (N= 21)	3 GRUPO3 (N= 23)
* SET	VARIABLE NUMBER	1	MEAN	83.6752	222.4652		
*****			STD DEV	110.4535	315.2689	H	
STATISTICS			S.E.M.	24.1029	65.7391	H	X
P-VALUE			SAMPLE SIZE	21	23	H	XX
T (SEPARATE)	-1.67	.1066	27.8	370.0000	1411.5000	H	XX
T (POOLED)	-1.61	.1153	42	MINIMUM	28.5000	HH HHH	XXX X X X X X
T (TRIM SEP.)	-1.62	.1161	29.8	MAX(2ND)	339.5000	MIN-----MAX	MIN-----MAX
T (TRIM POOLED)	-1.57	.1250	38	MIN(2ND)	9.6000	AN H = 3 CASES	AN X = 3 CASES
F (FOR VARIANCES)				MX.ST.SC.	2.5921	CS.NO.MN. 21 CS.NO.MX. 18	CS.NO.MN. 66 CS.NO.MX. 58
LEVENE	3.62	.0641	1, 42	MN.ST.SC.	-.7061		

*****			GROUP	1 GRUPO1	3 GRUPO3	1 GRUPO1 (N= 21)	3 GRUPO3 (N= 23)
* TAURD	VARIABLE NUMBER	2	MEAN	14.0476	37.2826		
*****			STD DEV	16.3927	68.2797	H	
STATISTICS			S.E.M.	3.5750	12.5692	H	
P-VALUE			SAMPLE SIZE	21	23	H	XX
T (SEPARATE)	-1.79	.0973	25.5	MAXIMUM	68.0000	HH H	XX
T (POOLED)	-1.71	.0950	42	MINIMUM	4.0000	HHH H	XX
T (TRIM SEP.)	-1.68	.0723	24.8	MAX(2ND)	40.0000	MIN-----MAX	MIN-----MAX
T (TRIM POOLED)	-1.82	.0796	38	MIN(2ND)	6.0000	AN H = 3 CASES	AN X = 3 CASES
F (FOR VARIANCES)				MX.ST.SC.	2.0049	CS.NO.MN. 21 CS.NO.MX. 12	CS.NO.MN. 65 CS.NO.MX. 57
LEVENE	4.46	.0406	1, 42	MN.ST.SC.	-.6392		

*****			GROUP	1 GRUPO1	3 GRUPO3	1 GRUPO1 (N= 21)	3 GRUPO3 (N= 23)
* ELICO	VARIABLE NUMBER	3	MEAN	16.7571	51.6475		
*****			STD DEV	24.6260	122.1215	H	
STATISTICS			S.E.M.	5.3695	21.2939	H	X
P-VALUE			SAMPLE SIZE	21	23	H	X
T (SEPARATE)	-1.59	.1248	24.8	MAXIMUM	90.0000	H	XX
T (POOLED)	-1.52	.1350	42	MINIMUM	1.5000	HH H	XX
T (TRIM SEP.)	-1.64	.0779	25.6	MAX(2ND)	64.0000	MIN-----MAX	MIN-----MAX
T (TRIM POOLED)	-1.77	.0855	38	MIN(2ND)	1.0000	AN H = 3 CASES	AN X = 3 CASES
F (FOR VARIANCES)				MX.ST.SC.	3.3018	CS.NO.MN. 21 CS.NO.MX. 17	CS.NO.MN. 61 CS.NO.MX. 57
LEVENE	3.63	.0637	1, 42	MN.ST.SC.	-.6201		

*****			GROUP	1 GRUPO1	3 GRUPO3	1 GRUPO1 (N= 21)	3 GRUPO3 (N= 23)
* COLICO	VARIABLE NUMBER	4	MEAN	5.2000	6.5261		
*****			STD DEV	5.3120	7.0712	H	X
STATISTICS			S.E.M.	1.1592	1.6413	H	X
P-VALUE			SAMPLE SIZE	21	23	HH	X
T (SEPARATE)	-.66	.5132	30.8	MAXIMUM	10.0000	HH	XX
T (POOLED)	-.65	.5201	42	MINIMUM	.5000	HHH HHH	XX
T (TRIM SEP.)	-.50	.6226	37.1	MAX(2ND)	15.4000	MIN-----MAX	MIN-----MAX
T (TRIM POOLED)	-.49	.6270	38	MIN(2ND)	.0000	AN H = 2 CASES	AN X = 2 CASES
F (FOR VARIANCES)				MX.ST.SC.	2.4097	CS.NO.MN. 2 CS.NO.MX. 18	CS.NO.MN. 66 CS.NO.MX. 58
LEVENE	1.59	.2149	1, 42	MN.ST.SC.	-.0648		

DIFFERENCES ON SINGLE VARIABLES

*****		GROUP	1 GRUPO1	3 GRUPO3	1 GRUPO1 (N= 21)		3 GRUPO3 (N= 23)	
# DC	VARIABLE NUMBER 5	MEAN	4.2888	5.1348				
STATISTICS		STD DEV	4.5899	7.3175	H		X	
		S.E.M.	.9972	1.5878	H		XX	
		SAMPLE SIZE	21	23	HH		XX	
T (SEPARATE)	-.52 .6888 37.6	MAXIMUM	16.2888	34.8888	HH		XX	
T (FOOLED)	-.51 .6148 42	MINIMUM	.6888	1.8888	HHHH H		XXXX X	X
T (TRIM SEP.)	-.25 .9616 36.8	MAX(2ND)	16.8888	15.8888	MIN-----MAX		MIN-----MAX	
T (TRIM POOLED)	-.85 .9613 38	MIN(2ND)	.9888	1.8888	AN H = 2 CASES		AN X = 2 CASES	
F (FOR VARIANCES)		MX.ST.SC.	2.6259	4.1845	CS.NO.MN. 2 CS.NO.MX. 9		CS.NO.MN. 65 CS.NO.MX. 19	
LEVENE	.43 .5148 1. 42	MN.ST.SC.	-.7878	-.5721				

*****		GROUP	1 GRUPO1	3 GRUPO3	1 GRUPO1 (N= 21)		3 GRUPO3 (N= 23)	
# DC	VARIABLE NUMBER 6	MEAN	1.1429	2.8843				
STATISTICS		STD DEV	2.8824	2.9884	H			
		S.E.M.	.4544	.6231	HH		XX	
		SAMPLE SIZE	21	23	HH		XX	
T (SEPARATE)	-1.12 .2787 39.4	MAXIMUM	18.8888	13.2888	HH		XX	
T (FOOLED)	-1.18 .2779 42	MINIMUM	.1888	1.8888	HHH		XXX X X X	X
T (TRIM SEP.)	-2.81 .8557 23.1	MAX(2ND)	1.8888	6.8888	MIN-----MAX		MIN-----MAX	
T (TRIM POOLED)	-1.93 .8615 38	MIN(2ND)	.2888	.2888	AN H = 2 CASES		AN X = 2 CASES	
F (FOR VARIANCES)		MX.ST.SC.	4.2532	3.7464	CS.NO.MN.; 28 CS.NO.MX. 18		CS.NO.MN. 66 CS.NO.MX. 19	
LEVENE	3.86 .8877 1. 42	MN.ST.SC.	-.5888	-.6373				

*****		GROUP	1 GRUPO1	3 GRUPO3	1 GRUPO1 (N= 21)		3 GRUPO3 (N= 23)	
# RATI01	VARIABLE NUMBER 7	MEAN	14.7619	54.9384				
STATISTICS		STD DEV	29.3346	115.1839	H			
		S.E.M.	6.4813	24.2893	H		X	
		SAMPLE SIZE	21	23	H		X	
T (SEPARATE)	-1.68 .1212 25.8	MAXIMUM	124.8888	518.4888	H		XX	
T (FOOLED)	-1.25 .1311 42	MINIMUM	.4888	5.2888	H H H		XXX X X X	X
T (TRIM SEP.)	-1.77 .8985 23.1	MAX(2ND)	72.8888	253.2888	MIN-----MAX		MIN-----MAX	
T (TRIM POOLED)	-1.69 .8994 38	MIN(2ND)	.5888	5.8888	AN H = 4 CASES		AN X = 4 CASES	
F (FOR VARIANCES)		MX.ST.SC.	3.7239	3.9919	CS.NO.MN. 21 CS.NO.MX. 16		CS.NO.MN. 64 CS.NO.MX. 58	
LEVENE	4.27 .8449 1. 42	MN.ST.SC.	-.4888	-.4283				

*****		GROUP	1 GRUPO1	3 GRUPO3	1 GRUPO1 (N= 21)		3 GRUPO3 (N= 23)	
# RATI02	VARIABLE NUMBER 8	MEAN	23.3857	42.6348				
STATISTICS		STD DEV	41.3188	59.6481	H			
		S.E.M.	9.8146	12.2273	H		X	
		SAMPLE SIZE	21	23	H		X	
T (SEPARATE)	-1.27 .2125 39.6	MAXIMUM	156.8888	246.8888	H		X	
T (FOOLED)	-1.25 .2191 42	MINIMUM	.9888	6.8888	HH HH		XXX X X	
T (TRIM SEP.)	-1.22 .2288 37.7	MAX(2ND)	128.8888	127.2888	MIN-----MAX		MIN-----MAX	
T (TRIM POOLED)	-1.21 .2334 38	MIN(2ND)	1.2888	7.2888	AN H = 3 CASES		AN X = 3 CASES	
F (FOR VARIANCES)		MX.ST.SC.	3.2182	3.4817	CS.NO.MN. 21 CS.NO.MX. 18		CS.NO.MN. 66 CS.NO.MX. 59	
LEVENE	1.27 .2653 1. 42	MN.ST.SC.	-.5443	-.6111				

DIFFERENCES ON SINGLE VARIABLES

*****		GROUP	1 GRUPO1	3 GRUPO3	1 GRUPO1 (N= 21)		3 GRUPO3 (N= 23)	
# RATI03	VARIABLE NUMBER 9	MEAN	1.8143	.9689				
STATISTICS		STD DEV	.3183	.2966				
		S.E.M.	.0694	.0618				
		SAMPLE SIZE	21	23				
T (SEPARATE)	.57 .5688 42.9	MAXIMUM	1.4888	1.4888	HHH		X	
T (FOOLED)	.58 .5675 42	MINIMUM	.4888	.4888	H H HHHH HH		X X X	
T (TRIM SEP.)	.58 .5676 36.7	MAX(2ND)	1.5888	1.2888	MIN-----MAX		MIN-----MAX	
T (TRIM POOLED)	.58 .5658 38	MIN(2ND)	.4888	.4888	AN H = 2 CASES		AN X = 2 CASES	
F (FOR VARIANCES)		MX.ST.SC.	1.8184	1.4888	CS.NO.MN. 6 CS.NO.MX. 1		CS.NO.MN. 51 CS.NO.MX. 52	
LEVENE	.83 .8741 1. 42	MN.ST.SC.	-1.9382	-1.8913				

*****		GROUP	1 GRUPO1	3 GRUPO3	1 GRUPO1 (N= 21)		3 GRUPO3 (N= 23)	
# RATI04	VARIABLE NUMBER 10	MEAN	1.1857	1.2391				
STATISTICS		STD DEV	.5515	.6479				
		S.E.M.	.1284	.1351				
		SAMPLE SIZE	21	23				
T (SEPARATE)	-.38 .7693 41.8	MAXIMUM	2.5888	3.1888	HH		X	
T (FOOLED)	-.29 .7789 42	MINIMUM	.4888	.5288	HHH		XX	
T (TRIM SEP.)	-.15 .8832 39.8	MAX(2ND)	2.4888	2.5888	HHHHH H		XXX	
T (TRIM POOLED)	-.15 .8836 38	MIN(2ND)	.5888	.5288	MIN-----MAX		MIN-----MAX	
F (FOR VARIANCES)		MX.ST.SC.	2.3826	2.8722	AN H = 2 CASES		AN X = 2 CASES	
LEVENE	.13 .7238 1. 42	MN.ST.SC.	-1.4244	-1.1488	CS.NO.MN. 4 CS.NO.MX. 21		CS.NO.MN. 60 CS.NO.MX. 55	

IFAGE 11 BMDP3D ANALISIS DISCRIMINANTE RECIBEN NACIDOS SALES BILIARES

DIFFERENCES ON SINGLE VARIABLES

***** RATIO3 *****				GROUP	1 GRUPO1	4 GRUPO4	1 GRUPO1 (N= 21)	4 GRUPO4 (N= 23)
STATISTICS	P-VALUE	DF		MEAN	1.2143	.6757		
T (SEPARATE)	1.82	.3141	39.7	STD DEV	.3123	.4477		
T (POOLED)	1.68	.3211	42	S.E.M.	.4654	.4734		
T (TRIM SEP.)	.58	.3758	35.7	SAMPLE SIZE	21	23		
T (TRIM POOLED)	.68	.3837	38	MAXIMUM	1.6222	1.5222		
F (FOR VARIANCES)				MINIMUM	.4222	.3222		
LEVENE	2.12	.1532	1, 42	MAX(2ND)	1.5222	1.5222		
				MIN(2ND)	.4222	.3222		
				MI.ST.SC.	1.8424	2.2434		
				MI.ST.SC.	-1.9382	-1.3385		

***** RATIO4 *****				GROUP	1 GRUPO1	4 GRUPO4	1 GRUPO1 (N= 21)	4 GRUPO4 (N= 23)
STATISTICS	P-VALUE	DF		MEAN	1.1857	1.4545		
T (SEPARATE)	-1.22	.3264	32.8	STD DEV	.5516	1.1621		
T (POOLED)	-1.97	.3287	42	S.E.M.	.1224	.2434		
T (TRIM SEP.)	-1.85	.4234	32.6	SAMPLE SIZE	21	23		
T (TRIM POOLED)	-1.83	.4144	38	MAXIMUM	2.5222	5.6222		
F (FOR VARIANCES)				MINIMUM	.4222	.4222		
LEVENE	2.12	.1528	1, 42	MAX(2ND)	2.4222	4.2222		
				MIN(2ND)	.5222	.2222		
				MI.ST.SC.	2.3824	3.5473		
				MI.ST.SC.	-1.4244	-1.6445		

IFAGE 12 BMDP3D ANALISIS DISCRIMINANTE RECIBEN NACIDOS SALES BILIARES

DIFFERENCES ON SINGLE VARIABLES

***** SPT *****				GROUP	1 GRUPO1	5 GRUPO5	1 GRUPO1 (N= 21)	5 GRUPO5 (N= 12)
STATISTICS	P-VALUE	DF		MEAN	23.1857	118.7833		
T (SEPARATE)	-1.25	.3289	29.1	STD DEV	112.4535	72.4522		
T (POOLED)	-1.96	.3426	31	S.E.M.	24.1222	22.9553		
T (TRIM SEP.)	-1.73	.4749	25.8	SAMPLE SIZE	21	12		
T (TRIM POOLED)	-1.57	.5716	27	MAXIMUM	372.2222	341.1222		
F (FOR VARIANCES)				MINIMUM	5.7222	51.2222		
LEVENE	1.38	.2637	1, 31	MAX(2ND)	339.5222	153.6222		
				MIN(2ND)	9.6222	57.2222		
				MI.ST.SC.	2.5221	2.7222		
				MI.ST.SC.	-1.7881	-1.8522		

***** TAURO *****				GROUP	1 GRUPO1	5 GRUPO5	1 GRUPO1 (N= 21)	5 GRUPO5 (N= 12)
STATISTICS	P-VALUE	DF		MEAN	14.2476	17.4258		
T (SEPARATE)	-1.71	.4023	38.2	STD DEV	16.3227	12.8211		
T (POOLED)	-1.64	.5288	31	S.E.M.	3.5752	3.1222		
T (TRIM SEP.)	-1.69	.5837	26.6	SAMPLE SIZE	21	12		
T (TRIM POOLED)	-1.59	.5684	27	MAXIMUM	68.2222	43.8222		
F (FOR VARIANCES)				MINIMUM	.3222	5.8222		
LEVENE	2.14	.1536	1, 31	MAX(2ND)	42.2222	27.2222		
				MIN(2ND)	.6222	6.2222		
				MI.ST.SC.	2.8222	2.4222		
				MI.ST.SC.	-1.8392	-1.7123		

***** GLICO *****				GROUP	1 GRUPO1	5 GRUPO5	1 GRUPO1 (N= 21)	5 GRUPO5 (N= 12)
STATISTICS	P-VALUE	DF		MEAN	16.7571	37.1417		
T (SEPARATE)	-1.69	.1125	16.5	STD DEV	24.6222	37.5172		
T (POOLED)	-1.89	.2884	31	S.E.M.	5.3695	10.8323		
T (TRIM SEP.)	-2.24	.2535	21.9	SAMPLE SIZE	21	12		
T (TRIM POOLED)	-1.92	.2868	27	MAXIMUM	58.2222	149.8222		
F (FOR VARIANCES)				MINIMUM	1.5222	12.4222		
LEVENE	.68	.4457	1, 31	MAX(2ND)	64.2222	56.8222		
				MIN(2ND)	1.6222	13.8222		
				MI.ST.SC.	3.3218	2.9722		
				MI.ST.SC.	-.6221	-.7128		

***** COLICO *****				GROUP	1 GRUPO1	5 GRUPO5	1 GRUPO1 (N= 21)	5 GRUPO5 (N= 12)
STATISTICS	P-VALUE	DF		MEAN	5.2222	9.6517		
T (SEPARATE)	-3.25	.2246	38.9	STD DEV <td>5.3122</td> <td>3.1425</td> <td></td> <td></td>	5.3122	3.1425		
T (POOLED)	-2.66	.2121	31	S.E.M. <td>1.1572</td> <td>.9272</td> <td></td> <td></td>	1.1572	.9272		
T (TRIM SEP.)	-2.99	.2268	26.2	SAMPLE SIZE <td>21</td> <td>12</td> <td></td> <td></td>	21	12		
T (TRIM POOLED)	-2.58	.2155	27	MAXIMUM <td>12.2222</td> <td>14.4222</td> <td></td> <td></td>	12.2222	14.4222		
F (FOR VARIANCES)				MINIMUM <td>5.2222</td> <td>5.2222</td> <td></td> <td></td>	5.2222	5.2222		
LEVENE	1.91	.1767	1, 31	MAX(2ND) <td>15.4222</td> <td>14.2222</td> <td></td> <td></td>	15.4222	14.2222		
				MIN(2ND) <td>.9222</td> <td>6.8222</td> <td></td> <td></td>	.9222	6.8222		
				MI.ST.SC. <td>2.4222</td> <td>1.4222</td> <td></td> <td></td>	2.4222	1.4222		
				MI.ST.SC. <td>-.6348</td> <td>-1.4222</td> <td></td> <td></td>	-.6348	-1.4222		

IFAGE 13 EMPD30 ANALISIS DISCRIMINANTE RECEN NACIDOS SALES BILIARES

DIFFERENCES ON SINGLE VARIABLES

*****	VARIABLE NUMBER	5	GROUP	1 GRUPO1	5 GRUPOS	1 GRUPO1 (N= 21)	5 GRUPOS (N= 12)
*** QDC			MEAN	4.2000	5.1033		
*****			STD DEV	4.5599	4.5749	H	
*****	STATISTICS	P-VALUE	S.E.M.	.9972	1.3286	H	
			SAMPLE SIZE	21	12	HH	
T (SEPARATE)	-.59	.5582	23.0	16.2000	15.6000	HH	II
T (POOLED)	-.59	.5585	31	16.2000	15.6000	HH	II III I
T (TRIM SEP.)	-.34	.7367	21.1	16.2000	15.6000	HH	
T (TRIM POOLED)	-.32	.7400	27	16.2000	15.6000	HH	
F (FOR VARIANCES)			MINIMUM	.6000	1.2000	MIN-----MAX	MIN-----MAX
LEVENE	.20	.6595	1, 31	MAX(2ND)	16.2000	AN H = 2 CASES	AN I = 2 CASES
			MIN(2ND)	.9000	1.2000	CS.NO.MN. 2 CS.NO.MI. 9	CS.NO.MN. 94 CS.NO.MI. 100
			MAX(2ND)	2.6259	2.2770		
			MIN(2ND)	2.6259	2.2770		
			MAX(2ND)	-.7070	-.8707		
			MIN(2ND)				

*****	VARIABLE NUMBER	6	GROUP	1 GRUPO1	5 GRUPOS	1 GRUPO1 (N= 21)	5 GRUPOS (N= 12)
*** DC			MEAN	1.1429	1.7333		
*****			STD DEV	2.0524	1.7172	H	
*****	STATISTICS	P-VALUE	S.E.M.	.4544	.4943	HH	
			SAMPLE SIZE	21	12	HH	
T (SEPARATE)	-.09	.3869	26.9	10.0000	5.0000	HH	I
T (POOLED)	-.03	.4113	31	10.0000	5.0000	HH	I
T (TRIM SEP.)	-1.67	.1259	10.1	10.0000	5.0000	HH	IIII X I
T (TRIM POOLED)	-2.17	.0391	27	10.0000	5.0000	HH	
F (FOR VARIANCES)			MINIMUM	1.0000	4.0000	MIN-----MAX	MIN-----MAX
LEVENE	.45	.5055	1, 31	MAX(2ND)	4.0000	AN H = 2 CASES	AN I = 2 CASES
			MIN(2ND)	2.0000	1.0000	CS.NO.MN. 20 CS.NO.MI. 10	CS.NO.MN. 95 CS.NO.MI. 103
			MAX(2ND)	4.2532	2.2583		
			MIN(2ND)	4.2532	2.2583		
			MAX(2ND)	-.5000	-.0956		
			MIN(2ND)				

*****	VARIABLE NUMBER	7	GROUP	1 GRUPO1	5 GRUPOS	1 GRUPO1 (N= 21)	5 GRUPOS (N= 12)
*** PATIO1			MEAN	14.7619	15.0000		
*****			STD DEV	29.3345	11.2067	H	
*****	STATISTICS	P-VALUE	S.E.M.	6.4013	3.2351	H	
			SAMPLE SIZE	21	12	H	
T (SEPARATE)	-.24	.9564	29.2	124.0000	39.7000	H	I
T (POOLED)	-.23	.9725	31	124.0000	39.7000	H	I
T (TRIM SEP.)	-1.19	.7730	25.6	124.0000	39.7000	H P P	II
T (TRIM POOLED)	-.24	.0140	27	124.0000	39.7000	MIN-----MAX	MIN-----MAX
F (FOR VARIANCES)			MINIMUM	72.0000	25.0000	AN H = 4 CASES	AN I = 4 CASES
LEVENE	.99	.3292	1, 31	MAX(2ND)	4.5000	CS.NO.MN. 21 CS.NO.MI. 16	CS.NO.MN. 93 CS.NO.MI. 99
			MIN(2ND)	1.5000	2.1000		
			MAX(2ND)	3.7239	2.1000		
			MIN(2ND)	3.7239	2.1000		
			MAX(2ND)	-.4096	-.9706		
			MIN(2ND)				

*****	VARIABLE NUMBER	8	GROUP	1 GRUPO1	5 GRUPOS	1 GRUPO1 (N= 21)	5 GRUPOS (N= 12)
*** RATIO2			MEAN	23.1957	32.7250		
*****			STD DEV	41.3120	20.2909	H	
*****	STATISTICS	P-VALUE	S.E.M.	9.0146	5.0220	H	
			SAMPLE SIZE	21	12	H	
T (SEPARATE)	-.07	.3905	30.5	150.0000	85.2000	H	I
T (POOLED)	-.73	.4699	31	150.0000	85.2000	H	II
T (TRIM SEP.)	-.06	.3994	25.2	150.0000	85.2000	HH HH	III
T (TRIM POOLED)	-.07	.5075	27	150.0000	85.2000	MIN-----MAX	MIN-----MAX
F (FOR VARIANCES)			MINIMUM	1.2000	13.5000	AN H = 3 CASES	AN I = 3 CASES
LEVENE	2.21	.1470	1, 31	MAX(2ND)	3.2100	CS.NO.MN. 21 CS.NO.MI. 10	CS.NO.MN. 93 CS.NO.MI. 99
			MIN(2ND)	3.2100	2.6100		
			MAX(2ND)	3.2100	2.6100		
			MIN(2ND)	-.5443	-1.1050		
			MAX(2ND)				

IFAGE 14 EMPD30 ANALISIS DISCRIMINANTE RECEN NACIDOS SALES BILIARES

DIFFERENCES ON SINGLE VARIABLES

*****	VARIABLE NUMBER	9	GROUP	1 GRUPO1	5 GRUPOS	1 GRUPO1 (N= 21)	5 GRUPOS (N= 12)
*** PATIO3			MEAN	1.0143	1.1750		
*****			STD DEV	.3193	.4225		
*****	STATISTICS	P-VALUE	S.E.M.	.0594	.1102	H	
			SAMPLE SIZE	21	12	HHH	
T (SEPARATE)	-1.19	.2490	10.9	1.0000	1.0000	H HHHH H	I
T (POOLED)	-1.27	.2145	31	1.0000	1.0000	H H HHHH H	II
T (TRIM SEP.)	-1.49	.2922	15.0	1.0000	1.0000	H H HHHH H	III
T (TRIM POOLED)	-1.10	.2404	27	1.0000	1.0000	MIN-----MAX	MIN-----MAX
F (FOR VARIANCES)			MINIMUM	1.0000	1.0000	AN H = 1 CASES	AN I = 1 CASES
LEVENE	1.55	.2226	1, 31	MAX(2ND)	1.0000	CS.NO.MN. 6 CS.NO.MI. 1	CS.NO.MN. 103 CS.NO.MI. 93
			MIN(2ND)	1.0000	1.0000		
			MAX(2ND)	1.0000	1.0000		
			MIN(2ND)	1.0000	1.0000		
			MAX(2ND)	1.0000	1.0000		
			MIN(2ND)	1.0000	1.0000		

*****	VARIABLE NUMBER	10	GROUP	1 GRUPO1	5 GRUPOS	1 GRUPO1 (N= 21)	5 GRUPOS (N= 12)
*** RATIO4			MEAN	1.1057	2.2517		
*****			STD DEV	.5516	1.1301	H	
*****	STATISTICS	P-VALUE	S.E.M.	.1724	.3262	HH	
			SAMPLE SIZE	21	12	HHH	
T (SEPARATE)	-3.10	.0066	14.1	2.5000	5.3000	HHH H	I
T (POOLED)	-3.79	.0026	31	2.5000	5.3000	HHH H	I
T (TRIM SEP.)	-3.46	.0030	14.1	2.5000	5.3000	HHH H	II
T (TRIM POOLED)	-3.02	.0007	27	2.5000	5.3000	HHH H	III
F (FOR VARIANCES)			MINIMUM	1.0000	1.5000	MIN-----MAX	MIN-----MAX
LEVENE	4.03	.0355	1, 31	MAX(2ND)	2.3000	AN H = 1 CASES	AN I = 1 CASES
			MIN(2ND)	2.3000	2.6519	CS.NO.MN. 4 CS.NO.MI. 21	CS.NO.MN. 103 CS.NO.MI. 104
			MAX(2ND)	2.3000	2.6519		
			MIN(2ND)	2.3000	2.6519		
			MAX(2ND)	-1.4244	-.0775		
			MIN(2ND)				

DIFFERENCES ON SINGLE VARIABLES

*****				GROUP	2 CONT2	3 GRUPO3	2 CONT2 (N= 24)	3 GRUPO3 (N= 23)
*****				STATISTICS	P-VALUE	DF		
*****				MEAN	28.0752	37.4552	H	
*****				STD DEV	82.7752	315.2692	H	
*****				S.E.M.	16.6765	65.7381	H	
*****				SAMPLE SIZE	24	23	H	
T (SEPARATE)	-1.92	.0653	24.9	MAXIMUM	342.0000	1411.5000	H H	I
T (FOOLED)	-1.96	.0565	45	MINIMUM	4.1000	29.5000	HHH H	I I I I I
T (TRIM SEP.)	-2.12	.0451	23.3	MAX(2ND)	181.2000	781.5000	MIN-----MAX	MIN-----MAX
T (TRIM FOOLED)	-2.16	.0366	41	MIN(2ND)	5.7000	29.0000	AN H = 3 CASES	AN I = 3 CASES
F (FOR VARIANCES)				MI.ST.SC.	3.2858	3.8413	CS.NO.MN. 45 CS.NO.MI. 46	CS.NO.MN. 66 CS.NO.MI. 58
LEVENE	5.89	.0193	1, 45	MN.ST.SC.	-.7971	-.5455		

*****				GROUP	2 CONT2	3 GRUPO3	2 CONT2 (N= 24)	3 GRUPO3 (N= 23)
*****				STATISTICS	P-VALUE	DF		
*****				MEAN	13.6375	37.2626	H	
*****				STD DEV	24.9992	68.2797	H	
*****				S.E.M.	5.1229	12.5692	H	
*****				SAMPLE SIZE	24	23	H	
T (SEPARATE)	-1.74	.0919	29.1	MAXIMUM	128.0000	268.0000	H	II
T (FOOLED)	-1.77	.0835	45	MINIMUM	6.0000	4.0000	HHH H	II
T (TRIM SEP.)	-2.23	.0357	22.9	MAX(2ND)	32.4000	153.0000	MIN-----MAX	MIN-----MAX
T (TRIM FOOLED)	-2.28	.0268	41	MIN(2ND)	6.0000	6.0000	AN H = 3 CASES	AN I = 3 CASES
F (FOR VARIANCES)				MI.ST.SC.	4.2547	3.8487	CS.NO.MN. 45 CS.NO.MI. 46	CS.NO.MN. 65 CS.NO.MI. 57
LEVENE	3.79	.0579	1, 45	MN.ST.SC.	-.5215	-.5389		

*****				GROUP	2 CONT2	3 GRUPO3	2 CONT2 (N= 24)	3 GRUPO3 (N= 23)
*****				STATISTICS	P-VALUE	DF		
*****				MEAN	17.5333	51.6475	H	
*****				STD DEV	23.8188	102.1215	H	
*****				S.E.M.	4.8224	21.2926	H	
*****				SAMPLE SIZE	24	23	H	
T (SEPARATE)	-1.56	.1312	24.3	MAXIMUM	105.0000	408.0000	H	I
T (FOOLED)	-1.59	.1181	45	MINIMUM	5.0000	6.0000	HHH H	II
T (TRIM SEP.)	-1.87	.0737	23.4	MAX(2ND)	51.0000	281.0000	MIN-----MAX	MIN-----MAX
T (TRIM FOOLED)	-1.91	.0632	41	MIN(2ND)	1.7000	7.2000	AN H = 4 CASES	AN I = 4 CASES
F (FOR VARIANCES)				MI.ST.SC.	3.7291	4.1546	CS.NO.MN. 45 CS.NO.MI. 46	CS.NO.MN. 61 CS.NO.MI. 57
LEVENE	4.21	.0461	1, 45	MN.ST.SC.	-.7213	-.4428		

*****				GROUP	2 CONT2	3 GRUPO3	2 CONT2 (N= 24)	3 GRUPO3 (N= 23)
*****				STATISTICS	P-VALUE	DF		
*****				MEAN	5.1523	6.5211	H	
*****				STD DEV	6.1715	7.8712	H	
*****				S.E.M.	1.2422	1.6413	H	
*****				SAMPLE SIZE	24	23	H	
T (SEPARATE)	-.66	.5123	41.7	MAXIMUM	19.2000	31.2000	H	I
T (FOOLED)	-.66	.5075	45	MINIMUM	5.0000	1.0000	HHH H	II
T (TRIM SEP.)	-.44	.6648	48.6	MAX(2ND)	19.2000	28.1000	MIN-----MAX	MIN-----MAX
T (TRIM FOOLED)	-.44	.6644	41	MIN(2ND)	1.0000	1.1000	AN H = 3 CASES	AN I = 3 CASES
F (FOR VARIANCES)				MI.ST.SC.	2.2745	3.1347	CS.NO.MN. 45 CS.NO.MI. 25	CS.NO.MN. 66 CS.NO.MI. 58
LEVENE	.58	.4847	1, 45	MN.ST.SC.	-.7544	-.7021		

DIFFERENCES ON SINGLE VARIABLES

*****				GROUP	2 CONT2	3 GRUPO3	2 CONT2 (N= 24)	3 GRUPO3 (N= 23)
*****				STATISTICS	P-VALUE	DF		
*****				MEAN	5.2752	5.1346	H	
*****				STD DEV	6.1529	7.2275	H	
*****				S.E.M.	1.2582	1.5022	H	
*****				SAMPLE SIZE	24	23	H	
T (SEPARATE)	.07	.9417	43.3	MAXIMUM	16.0000	34.0000	H	II
T (FOOLED)	.07	.9415	45	MINIMUM	3.0000	1.0000	HHH H	II
T (TRIM SEP.)	.61	.5452	36.2	MAX(2ND)	16.0000	15.0000	MIN-----MAX	MIN-----MAX
T (TRIM FOOLED)	.68	.5496	41	MIN(2ND)	1.0000	1.0000	AN H = 3 CASES	AN I = 3 CASES
F (FOR VARIANCES)				MI.ST.SC.	1.8654	1.1845	CS.NO.MN. 23 CS.NO.MI. 38	CS.NO.MN. 65 CS.NO.MI. 51
LEVENE	.41	.5273	1, 45	MN.ST.SC.	-.8279	-.5212		

*****				GROUP	2 CONT2	3 GRUPO3	2 CONT2 (N= 24)	3 GRUPO3 (N= 23)
*****				STATISTICS	P-VALUE	DF		
*****				MEAN	1.4792	2.8243	H	
*****				STD DEV	1.5293	2.9654	H	
*****				S.E.M.	.3936	.6231	H	
*****				SAMPLE SIZE	24	23	H	
T (SEPARATE)	-.71	.4805	37.4	MAXIMUM	6.0000	13.2000	H	II
T (FOOLED)	-.72	.4759	45	MINIMUM	2.0000	1.0000	HH H H H	II
T (TRIM SEP.)	-.34	.7341	42.8	MAX(2ND)	6.0000	6.0000	MIN-----MAX	MIN-----MAX
T (TRIM FOOLED)	-.34	.7341	41	MIN(2ND)	2.0000	2.0000	AN H = 3 CASES	AN I = 3 CASES
F (FOR VARIANCES)				MI.ST.SC.	2.3445	3.7464	CS.NO.MN. 37 CS.NO.MI. 25	CS.NO.MN. 66 CS.NO.MI. 51
LEVENE	1.18	.2824	1, 45	MN.ST.SC.	-.6634	-.6373		

*****				GROUP	2 CONT2	3 GRUPO3	2 CONT2 (N= 24)	3 GRUPO3 (N= 23)
*****				STATISTICS	P-VALUE	DF		
*****				MEAN	9.6523	54.9384	H	
*****				STD DEV	11.5634	116.1278	H	
*****				S.E.M.	2.4422	24.2893	H	
*****				SAMPLE SIZE	24	23	H	
T (SEPARATE)	-1.86	.0749	22.4	MAXIMUM	58.0000	519.0000	H	I
T (FOOLED)	-1.92	.0679	45	MINIMUM	5.0000	5.2000	HH	II
T (TRIM SEP.)	-2.23	.0556	28.5	MAX(2ND)	25.2000	283.2000	MIN-----MAX	MIN-----MAX
T (TRIM FOOLED)	-2.28	.0441	41	MIN(2ND)	5.0000	5.0000	AN H = 4 CASES	AN I = 4 CASES
F (FOR VARIANCES)				MI.ST.SC.	3.4255	3.9519	CS.NO.MN. 36 CS.NO.MI. 45	CS.NO.MN. 64 CS.NO.MI. 58
LEVENE	7.85	.0189	1, 45	MN.ST.SC.	-.7655	-.4283		

*****				GROUP	2 CONT2	3 GRUPO3	2 CONT2 (N= 24)	3 GRUPO3 (N= 23)
*****				STATISTICS	P-VALUE	DF		
*****				MEAN	17.5417	42.6348	H	
*****				STD DEV	16.8752	59.6421	H	
*****				S.E.M.	3.4939	12.2273	H	
*****				SAMPLE SIZE	24	23	H	
T (SEPARATE)	-1.95	.0629	25.4	MAXIMUM	49.2000	246.0000	HH	I
T (FOOLED)	-1.96	.0536	45	MINIMUM	1.1000	6.0000	HH	I
T (TRIM SEP.)	-1.85	.0744	25.3	MAX(2ND)	45.2000	139.2000	MIN-----MAX	MIN-----MAX
T (TRIM FOOLED)	-1.89	.0653	41	MIN(2ND)	1.7000	7.2000	AN H = 4 CASES	AN I = 4 CASES
F (FOR VARIANCES)				MI.ST.SC.	1.8745	3.4517	CS.NO.MN. 45 CS.NO.MI. 48	CS.NO.MN. 66 CS.NO.MI. 59
LEVENE	9.99	.0254	1, 45	MN.ST.SC.	-1.0188	-.5111		

DIFFERENCES ON SINGLE VARIABLES

*****	*****	*****	*****	*****	*****	*****	*****
# PATIOS	VARIABLE NUMBER	9	GROUP	2 CONT2	3 GRUPO3	2 CONT2 (N= 24)	3 GRUPO3 (N= 23)
*****	STATISTICS	P-VALUE	DF	MEAN	STD DEV	S.E.M.	SAMPLE SIZE
T (SEPARATE)	-0.69	.4914	43.1	.8517	.9687	.2766	24
T (POOLED)	-0.69	.4936	45	.3933	.2766	.8517	23
T (TRIM SEP.)	-0.83	.4287	42.8	.8722	.8517	.2766	23
T (TRIM POOLED)	-0.83	.4182	41	.8722	.8517	.2766	23
F (FOR VARIANCES)	LEVENE	.25	.6216	1, 45	3.1558	1.4929	-1.8713

*****	*****	*****	*****	*****	*****	*****	*****
# RATIO4	VARIABLE NUMBER	10	GROUP	2 CONT2	3 GRUPO3	2 CONT2 (N= 24)	3 GRUPO3 (N= 23)
*****	STATISTICS	P-VALUE	DF	MEAN	STD DEV	S.E.M.	SAMPLE SIZE
T (SEPARATE)	3.26	.0025	35.0	2.1758	1.2791	.6479	24
T (POOLED)	3.22	.0024	45	1.2428	.6479	.2537	23
T (TRIM SEP.)	3.27	.0028	31.9	.2537	.1351	.8517	23
T (TRIM POOLED)	3.23	.0025	41	.8517	.8517	.2766	23
F (FOR VARIANCES)	LEVENE	4.37	.0422	1, 45	2.9169	2.6722	-1.1428

DIFFERENCES ON SINGLE VARIABLES

*****	*****	*****	*****	*****	*****	*****	*****
# SBT	VARIABLE NUMBER	1	GROUP	2 CONT2	4 GRUPO4	2 CONT2 (N= 24)	4 GRUPO4 (N= 23)
*****	STATISTICS	P-VALUE	DF	MEAN	STD DEV	S.E.M.	SAMPLE SIZE
T (SEPARATE)	-2.49	.0196	26.4	77.2792	279.5251	57.2227	24
T (POOLED)	-2.53	.0158	45	22.7757	255.3513	57.2227	23
T (TRIM SEP.)	-2.57	.0178	23.3	16.6965	57.2227	57.2227	23
T (TRIM POOLED)	-2.62	.0122	41	342.2222	1222.2222	24.2222	23
F (FOR VARIANCES)	LEVENE	7.69	.0084	1, 45	181.2222	722.2222	29.4222

*****	*****	*****	*****	*****	*****	*****	*****
# TAURO	VARIABLE NUMBER	2	GROUP	2 CONT2	4 GRUPO4	2 CONT2 (N= 24)	4 GRUPO4 (N= 23)
*****	STATISTICS	P-VALUE	DF	MEAN	STD DEV	S.E.M.	SAMPLE SIZE
T (SEPARATE)	-2.07	.0474	29.1	13.6375	41.7132	12.5613	24
T (POOLED)	-2.10	.0411	45	24.5958	42.2417	12.5613	23
T (TRIM SEP.)	-2.35	.0284	21.7	5.1029	12.5613	12.5613	23
T (TRIM POOLED)	-2.40	.0218	41	128.2222	232.2222	4.2222	23
F (FOR VARIANCES)	LEVENE	6.07	.0176	1, 45	32.4222	182.2222	5.2222

*****	*****	*****	*****	*****	*****	*****	*****
# GLICO	VARIABLE NUMBER	3	GROUP	2 CONT2	4 GRUPO4	2 CONT2 (N= 24)	4 GRUPO4 (N= 23)
*****	STATISTICS	P-VALUE	DF	MEAN	STD DEV	S.E.M.	SAMPLE SIZE
T (SEPARATE)	-2.15	.0489	25.4	17.5333	56.1239	17.2751	24
T (POOLED)	-2.19	.0334	45	23.6182	52.6164	17.2751	23
T (TRIM SEP.)	-2.36	.0272	22.6	4.6226	17.2751	17.2751	23
T (TRIM POOLED)	-2.41	.0205	41	125.2222	355.2222	4.2222	23
F (FOR VARIANCES)	LEVENE	8.21	.0063	1, 45	51.2222	214.2222	5.2222

*****	*****	*****	*****	*****	*****	*****	*****
# COLICO	VARIABLE NUMBER	4	GROUP	2 CONT2	4 GRUPO4	2 CONT2 (N= 24)	4 GRUPO4 (N= 23)
*****	STATISTICS	P-VALUE	DF	MEAN	STD DEV	S.E.M.	SAMPLE SIZE
T (SEPARATE)	-2.09	.0446	30.8	5.1583	11.5132	13.2398	24
T (POOLED)	-2.12	.0352	45	6.1735	13.2398	2.7625	23
T (TRIM SEP.)	-1.97	.0578	31.3	1.2692	2.7625	2.7625	23
T (TRIM POOLED)	-1.99	.0528	41	19.2222	55.2222	1.2222	23
F (FOR VARIANCES)	LEVENE	2.96	.0922	1, 45	19.2222	39.4222	1.2222

DIFFERENCES ON SINGLE VARIABLES

*****	#	VARIABLE NUMBER	5	GROUP	2 CONT2	4 GRUPO4	2 CONT2 (N= 24)	4 GRUPO4 (N= 23)										
									STATISTICS	P-VALUE	DF	MEAN	STD DEV	S.E.M.	SAMPLE SIZE	MAXIMUM	MINIMUM	MAX(2ND)
T (SEPARATE)	-1.33	.1928	37.1															
T (FOOLED)	-1.34	.1875	45															
T (TRIM SEP.)	-1.16	.2552	37.2															
T (TRIM FOOLED)	-1.16	.2515	41															
F (FOR VARIANCES)																		
LEVENE	.81	.3743	1, 45															

*****	#	VARIABLE NUMBER	6	GROUP	2 CONT2	4 GRUPO4	2 CONT2 (N= 24)	4 GRUPO4 (N= 23)										
									STATISTICS	P-VALUE	DF	MEAN	STD DEV	S.E.M.	SAMPLE SIZE	MAXIMUM	MINIMUM	MAX(2ND)
T (SEPARATE)	-1.21	.2319	44.2															
T (FOOLED)	-1.21	.2389	45															
T (TRIM SEP.)	-1.07	.2984	48.7															
T (TRIM FOOLED)	-1.07	.2899	41															
F (FOR VARIANCES)																		
LEVENE	.19	.6866	1, 45															

*****	#	VARIABLE NUMBER	7	GROUP	2 CONT2	4 GRUPO4	2 CONT2 (N= 24)	4 GRUPO4 (N= 23)										
									STATISTICS	P-VALUE	DF	MEAN	STD DEV	S.E.M.	SAMPLE SIZE	MAXIMUM	MINIMUM	MAX(2ND)
T (SEPARATE)	-2.52	.0194	22.7															
T (FOOLED)	-2.57	.0135	45															
T (TRIM SEP.)	-3.83	.0054	21.8															
T (TRIM FOOLED)	-3.18	.0035	41															
F (FOR VARIANCES)																		
LEVENE	11.88	.0017	1, 45															

*****	#	VARIABLE NUMBER	8	GROUP	2 CONT2	4 GRUPO4	2 CONT2 (N= 24)	4 GRUPO4 (N= 23)										
									STATISTICS	P-VALUE	DF	MEAN	STD DEV	S.E.M.	SAMPLE SIZE	MAXIMUM	MINIMUM	MAX(2ND)
T (SEPARATE)	-2.13	.0444	22.5															
T (FOOLED)	-2.18	.0349	45															
T (TRIM SEP.)	-2.18	.0482	28.7															
T (TRIM FOOLED)	-2.15	.0375	41															
F (FOR VARIANCES)																		
LEVENE	12.45	.0018	1, 45															

DIFFERENCES ON SINGLE VARIABLES

*****	#	VARIABLE NUMBER	9	GROUP	2 CONT2	4 GRUPO4	2 CONT2 (N= 24)	4 GRUPO4 (N= 23)										
									STATISTICS	P-VALUE	DF	MEAN	STD DEV	S.E.M.	SAMPLE SIZE	MAXIMUM	MINIMUM	MAX(2ND)
T (SEPARATE)	-.83	.9748	43.3															
T (FOOLED)	-.83	.9748	45															
T (TRIM SEP.)	-.28	.8442	35.3															
T (TRIM FOOLED)	-.28	.8429	41															
F (FOR VARIANCES)																		
LEVENE	.75	.3994	1, 45															

*****	#	VARIABLE NUMBER	10	GROUP	2 CONT2	4 GRUPO4	2 CONT2 (N= 24)	4 GRUPO4 (N= 23)										
									STATISTICS	P-VALUE	DF	MEAN	STD DEV	S.E.M.	SAMPLE SIZE	MAXIMUM	MINIMUM	MAX(2ND)
T (SEPARATE)	2.84	.0469	45.8															
T (FOOLED)	2.84	.0472	45															
T (TRIM SEP.)	2.26	.0293	48.3															
T (TRIM FOOLED)	2.25	.0298	41															
F (FOR VARIANCES)																		
LEVENE	.38	.5417	1, 45															

IFAGE 21 EMEF30 ANALISIS DISCRIMINANTE RECIBEN HACIDOS SALES BILIARES

DIFFERENCES ON SINGLE VARIABLES

STATISTICS	P-VALUE	DF	GROUP	2 CONT2	5 GRUPOS	2 CONT2 (N= 24)	5 GRUPOS (N= 12)
T (SEPARATE)	-1.71	.1014	22.9				
T (FOOLED)	-1.88	.1013	34				
T (TRIM SEP.)	-2.44	.0560	25.5				
T (TRIM FOOLED)	-1.72	.0952	32				
F (FOR VARIANCES)							
LEVENE	.22	.6403	1, 34				

STATISTICS	P-VALUE	DF	GROUP	2 CONT2	5 GRUPOS	2 CONT2 (N= 24)	5 GRUPOS (N= 12)
T (SEPARATE)	-.63	.5310	33.6				
T (FOOLED)	-.54	.6209	34				
T (TRIM SEP.)	-1.62	.1188	24.3				
T (TRIM FOOLED)	-1.42	.1663	32				
F (FOR VARIANCES)							
LEVENE	1.22	.2779	1, 34				

STATISTICS	P-VALUE	DF	GROUP	2 CONT2	5 GRUPOS	2 CONT2 (N= 24)	5 GRUPOS (N= 12)
T (SEPARATE)	-1.65	.1102	15.5				
T (FOOLED)	-1.92	.0630	34				
T (TRIM SEP.)	-2.28	.0353	17.6				
T (TRIM FOOLED)	-2.22	.0359	32				
F (FOR VARIANCES)							
LEVENE	.73	.3901	1, 34				

STATISTICS	P-VALUE	DF	GROUP	2 CONT2	5 GRUPOS	2 CONT2 (N= 24)	5 GRUPOS (N= 12)
T (SEPARATE)	-2.92	.0262	24.0				
T (FOOLED)	-2.38	.0230	34				
T (TRIM SEP.)	-2.73	.0107	29.6				
T (TRIM FOOLED)	-2.15	.0394	32				
F (FOR VARIANCES)							
LEVENE	3.64	.0600	1, 34				

IFAGE 22 EMEF30 ANALISIS DISCRIMINANTE RECIBEN HACIDOS SALES BILIARES

DIFFERENCES ON SINGLE VARIABLES

STATISTICS	P-VALUE	DF	GROUP	2 CONT2	5 GRUPOS	2 CONT2 (N= 24)	5 GRUPOS (N= 12)
T (SEPARATE)	.05	.9505	29.7				
T (FOOLED)	.05	.9623	34				
T (TRIM SEP.)	.26	.7951	25.3				
T (TRIM FOOLED)	.22	.8255	32				
F (FOR VARIANCES)							
LEVENE	1.47	.2339	1, 34				

STATISTICS	P-VALUE	DF	GROUP	2 CONT2	5 GRUPOS	2 CONT2 (N= 24)	5 GRUPOS (N= 12)
T (SEPARATE)	-.44	.6710	24.6				
T (FOOLED)	-.39	.7017	34				
T (TRIM SEP.)	-.21	.8329	21.8				
T (TRIM FOOLED)	-.28	.6463	32				
F (FOR VARIANCES)							
LEVENE	.09	.7671	1, 34				

STATISTICS	P-VALUE	DF	GROUP	2 CONT2	5 GRUPOS	2 CONT2 (N= 24)	5 GRUPOS (N= 12)
T (SEPARATE)	-1.33	.1949	23.5				
T (FOOLED)	-1.30	.2027	34				
T (TRIM SEP.)	-1.44	.1676	16.4				
T (TRIM FOOLED)	-1.40	.1502	32				
F (FOR VARIANCES)							
LEVENE	.10	.7501	1, 34				

STATISTICS	P-VALUE	DF	GROUP	2 CONT2	5 GRUPOS	2 CONT2 (N= 24)	5 GRUPOS (N= 12)
T (SEPARATE)	-2.20	.0407	19.8				
T (FOOLED)	-2.34	.0252	34				
T (TRIM SEP.)	-2.49	.0492	21.4				
T (TRIM FOOLED)	-1.92	.0639	32				
F (FOR VARIANCES)							
LEVENE	.02	.9249	1, 34				

PAGE 25 EMPD30 ANALISIS DISCRIMINANTE RECIBEN HACIDOS SALES BILIARES

DIFFERENCES ON SINGLE VARIABLES

*****				GROUP	3 GRUPO3	4 GRUPO4	3 GRUPO3 (N= 23)	4 GRUPO4 (N= 23)
*****				MEAN	5.1348	8.4261	H	
*****				STD DEV	7.2275	9.6479	HH	
*****				S.E.M.	1.5872	2.8117	HH	
*****				SAMPLE SIZE	23	23	HH	II
*****				MAXIMUM	34.8222	48.8222	HH	III
*****				MINIMUM	1.8222	1.8222	HHHHH H	IIIIII X X X
*****				MAX(2ND)	15.8222	28.8222	MIN-----MAX	MIN-----MAX
*****				MIN(2ND)	1.8222	1.8222	AN H = 2 CASES	AN X = 2 CASES
*****				MI.ST.SC.	4.1845	3.3555	CS.NO.MN. 65 CS.NO.MI. 51	CS.NO.MN. 71 CS.NO.MI. 76
*****				MN.ST.SC.	-.5721	-.7875		
T (SEPARATE)	-1.31	.1977	42.8					
T (FOOLED)	-1.31	.1572	44					
T (TRIM SEP.)	-1.77	.8965	29.1					
T (TRIM FOOLED)	-1.77	.8837	48					
F (FOR VARIANCES)								
LEVENE	1.49	.2293	1, 44					

*****				GROUP	3 GRUPO3	4 GRUPO4	3 GRUPO3 (N= 23)	4 GRUPO4 (N= 23)
*****				MEAN	2.8843	2.1957		I
*****				STD DEV	2.9534	2.1149		I
*****				S.E.M.	.6231	.4418	HH	
*****				SAMPLE SIZE	23	23	HH	II
*****				MAXIMUM	13.2222	7.5222	HH	III
*****				MINIMUM	1.2222	1.2222	HHH H H H	IIIIII X X
*****				MAX(2ND)	6.8222	6.5222	MIN-----MAX	MIN-----MAX
*****				MIN(2ND)	1.2222	1.2222	AN H = 2 CASES	AN X = 2 CASES
*****				MI.ST.SC.	3.7464	2.5822	CS.NO.MN. 66 CS.NO.MI. 51	CS.NO.MN. 88 CS.NO.MI. 91
*****				MN.ST.SC.	-.6373	-.9437		
T (SEPARATE)	-.25	.8234	29.6					
T (FOOLED)	-.25	.8233	44					
T (TRIM SEP.)	-.72	.4767	42.0					
T (TRIM FOOLED)	-.72	.4767	48					
F (FOR VARIANCES)								
LEVENE	.56	.4591	1, 44					

*****				GROUP	3 GRUPO3	4 GRUPO4	3 GRUPO3 (N= 23)	4 GRUPO4 (N= 23)
*****				MEAN	54.9174	57.5217		
*****				STD DEV	116.1858	92.4432	H	
*****				S.E.M.	24.2897	18.8587	H	I
*****				SAMPLE SIZE	23	23	H	II
*****				MAXIMUM	518.4222	412.8222	HH	III
*****				MINIMUM	5.2222	3.2222	HHH H H H	IIIIII X X
*****				MAX(2ND)	283.2222	176.8222	MIN-----MAX	MIN-----MAX
*****				MIN(2ND)	5.2222	5.2222	AN H = 3 CASES	AN X = 3 CASES
*****				MI.ST.SC.	3.9719	3.9282	CS.NO.MN. 64 CS.NO.MI. 58	CS.NO.MN. 77 CS.NO.MI. 79
*****				MN.ST.SC.	-.4283	-.6327		
T (SEPARATE)	-.28	.9331	41.5					
T (FOOLED)	-.28	.9331	44					
T (TRIM SEP.)	-.16	.8784	36.7					
T (TRIM FOOLED)	-.16	.8783	48					
F (FOR VARIANCES)								
LEVENE	.85	.8317	1, 44					

*****				GROUP	3 GRUPO3	4 GRUPO4	3 GRUPO3 (N= 23)	4 GRUPO4 (N= 23)
*****				MEAN	42.6248	22.1435	H	
*****				STD DEV	58.6421	157.2558	H	I
*****				S.E.M.	12.2273	32.7879	H	I
*****				SAMPLE SIZE	23	23	H	II
*****				MAXIMUM	246.8222	652.8222	HHH H H	IIIIII X X
*****				MINIMUM	6.8222	4.8222	MIN-----MAX	MIN-----MAX
*****				MAX(2ND)	139.2222	447.8222	AN H = 3 CASES	AN X = 3 CASES
*****				MIN(2ND)	7.2222	7.8222	CS.NO.MN. 66 CS.NO.MI. 59	CS.NO.MN. 77 CS.NO.MI. 83
*****				MI.ST.SC.	3.4817	3.5987		
*****				MN.ST.SC.	-.6111	-.5313		
T (SEPARATE)	-1.38	.2841	28.8					
T (FOOLED)	-1.38	.2822	44					
T (TRIM SEP.)	-1.35	.1897	24.6					
T (TRIM FOOLED)	-1.35	.1851	48					
F (FOR VARIANCES)								
LEVENE	5.17	.8288	1, 44					

PAGE 26 EMPD30 ANALISIS DISCRIMINANTE RECIBEN HACIDOS SALES BILIARES

DIFFERENCES ON SINGLE VARIABLES

*****				GROUP	3 GRUPO3	4 GRUPO4	3 GRUPO3 (N= 23)	4 GRUPO4 (N= 23)
*****				MEAN	.9689	.8957		
*****				STD DEV	.2966	.4477	H	
*****				S.E.M.	.0819	.1334	H	
*****				SAMPLE SIZE	23	23	H	II
*****				MAXIMUM	1.4222	1.5222	H H H H H	IIIIIIII X X
*****				MINIMUM	.4222	.3222	MIN-----MAX	MIN-----MAX
*****				MAX(2ND)	1.2222	1.9222	AN H = 2 CASES	AN X = 2 CASES
*****				MIN(2ND)	.4222	.3222	CS.NO.MN. 51 CS.NO.MI. 52	CS.NO.MN. 82 CS.NO.MI. 81
*****				MI.ST.SC.	1.4873	2.2434		
*****				MN.ST.SC.	-1.8913	-1.3325		
T (SEPARATE)	.58	.5677	39.2					
T (FOOLED)	.58	.5632	44					
T (TRIM SEP.)	.46	.6449	34.8					
T (TRIM FOOLED)	.46	.6445	48					
F (FOR VARIANCES)								
LEVENE	2.22	.1436	1, 44					

*****				GROUP	3 GRUPO3	4 GRUPO4	3 GRUPO3 (N= 23)	4 GRUPO4 (N= 23)
*****				MEAN	1.2391	1.4565		
*****				STD DEV	.6477	1.1681		
*****				S.E.M.	.1251	.2436	H	
*****				SAMPLE SIZE	23	23	HH	II
*****				MAXIMUM	3.1822	5.8222	HHH H H	IIII I
*****				MINIMUM	.5222	.4222	HHHH H H	IIIIII X X X
*****				MAX(2ND)	2.5222	4.8222	MIN-----MAX	MIN-----MAX
*****				MIN(2ND)	.5222	.8222	AN H = 2 CASES	AN X = 2 CASES
*****				MI.ST.SC.	2.8722	3.5473	CS.NO.MN. 68 CS.NO.MI. 55	CS.NO.MN. 81 CS.NO.MI. 83
*****				MN.ST.SC.	-1.1489	-.9245		
T (SEPARATE)	-.79	.4494	21.4					
T (FOOLED)	-.78	.4393	44					
T (TRIM SEP.)	-.73	.4637	33.5					
T (TRIM FOOLED)	-.73	.4689	48					
F (FOR VARIANCES)								
LEVENE	1.56	.2185	1, 44					



IPAGE 27 EMPD30 ANALISIS DISCRIMINANTE RECIBEN NACIDOS SALES ELLIPTICAS

DIFFERENCES ON SINGLE VARIABLES

Table for variable EST. Columns: STATISTICS, P-VALUE, DF, GROUP (3 ERUF03, 5 ERUF05), 3 ERUF03 (N=23), 5 ERUF05 (N=12). Rows include T (SEPARATE), T (FOOLED), T (TRIM SEP.), T (TRIM FOOLED), F (FOR VARIANCES), LEVENE.

Table for variable TAURO. Columns: STATISTICS, P-VALUE, DF, GROUP (3 ERUF03, 5 ERUF05), 3 ERUF03 (N=23), 5 ERUF05 (N=12). Rows include T (SEPARATE), T (FOOLED), T (TRIM SEP.), T (TRIM FOOLED), F (FOR VARIANCES), LEVENE.

Table for variable ELICO. Columns: STATISTICS, P-VALUE, DF, GROUP (3 ERUF03, 5 ERUF05), 3 ERUF03 (N=23), 5 ERUF05 (N=12). Rows include T (SEPARATE), T (FOOLED), T (TRIM SEP.), T (TRIM FOOLED), F (FOR VARIANCES), LEVENE.

Table for variable COLICO. Columns: STATISTICS, P-VALUE, DF, GROUP (3 ERUF03, 5 ERUF05), 3 ERUF03 (N=23), 5 ERUF05 (N=12). Rows include T (SEPARATE), T (FOOLED), T (TRIM SEP.), T (TRIM FOOLED), F (FOR VARIANCES), LEVENE.

IPAGE 28 EMPD30 ANALISIS DISCRIMINANTE RECIBEN NACIDOS SALES ELLIPTICAS

DIFFERENCES ON SINGLE VARIABLES

Table for variable ODC. Columns: STATISTICS, P-VALUE, DF, GROUP (3 ERUF03, 5 ERUF05), 3 ERUF03 (N=23), 5 ERUF05 (N=12). Rows include T (SEPARATE), T (FOOLED), T (TRIM SEP.), T (TRIM FOOLED), F (FOR VARIANCES), LEVENE.

Table for variable OC. Columns: STATISTICS, P-VALUE, DF, GROUP (3 ERUF03, 5 ERUF05), 3 ERUF03 (N=23), 5 ERUF05 (N=12). Rows include T (SEPARATE), T (FOOLED), T (TRIM SEP.), T (TRIM FOOLED), F (FOR VARIANCES), LEVENE.

Table for variable RATIO1. Columns: STATISTICS, P-VALUE, DF, GROUP (3 ERUF03, 5 ERUF05), 3 ERUF03 (N=23), 5 ERUF05 (N=12). Rows include T (SEPARATE), T (FOOLED), T (TRIM SEP.), T (TRIM FOOLED), F (FOR VARIANCES), LEVENE.

Table for variable RATIO2. Columns: STATISTICS, P-VALUE, DF, GROUP (3 ERUF03, 5 ERUF05), 3 ERUF03 (N=23), 5 ERUF05 (N=12). Rows include T (SEPARATE), T (FOOLED), T (TRIM SEP.), T (TRIM FOOLED), F (FOR VARIANCES), LEVENE.

IPAGE 29 BMDP30 ANALISIS DISCRIMINANTE RECIENTE NACIDOS SALES BILIARES

DIFFERENCES ON SINGLE VARIABLES

*****	RATIO3	VARIABLE	NUMER	9	GROUP	3 GRUPO3	5 GRUPO5	3 GRUPO3 (N= 23)	5 GRUPO5 (N= 12)
*****	STATISTICS	P-VALUE	DF	MEAN	3 GRUPO3	5 GRUPO5			
T (SEPARATE)	-1.53	.1219	17.4	.9697	1.1750				
T (FOOLED)	-1.79	.0524	33	.2756	.4825		H		
T (TRIM SEP.)	-1.51	.1527	13.6	.0619	.1162		H		
T (TRIM FOOLED)	-1.76	.0991	29				H		
F (FOR VARIANCES)				SAMPLE SIZE	23	12			
LEvene	1.88	.1993	1, 33	MAXIMUM	-1.4222	1.8622	H H H		
				MINIMUM	.4222	.8622	H H H H H H H		
				MAX(2ND)	1.2222	1.7822	MIN-----MAX	MIN-----MAX	
				MIN(2ND)	.4222	.7822		MIN-----MAX	
				MI. ST. SC.	1.4895	1.5525	AN H = 2 CASES	AN I = 2 CASES	
				MI. ST. SC.	-1.8913	-1.4224	CS. NO. MN. 51 CS. NO. MI. 52	CS. NO. MN. 103 CS. NO. MI. 93	

*****	RATIO4	VARIABLE	NUMER	10	GROUP	3 GRUPO3	5 GRUPO5	3 GRUPO3 (N= 23)	5 GRUPO5 (N= 12)
*****	STATISTICS	P-VALUE	DF	MEAN	3 GRUPO3	5 GRUPO5			
T (SEPARATE)	-2.98	.0294	14.9	1.2391	2.2517				
T (FOOLED)	-3.52	.0113	33	.6479	1.1381		H		
T (TRIM SEP.)	-3.34	.0247	14.5	.1351	.3262		H		
T (TRIM FOOLED)	-3.65	.0010	29				H		
F (FOR VARIANCES)				SAMPLE SIZE	23	12			
LEvene	3.46	.0719	1, 33	MAXIMUM	3.1022	5.2922	I		
				MINIMUM	.5222	1.3222	II		
				MAX(2ND)	2.5222	3.3222	III I		
				MIN(2ND)	.5222	1.5222	IIII I I		
				MI. ST. SC.	2.8722	2.6519	MIN-----MAX	MIN-----MAX	
				MI. ST. SC.	-1.1422	-.6775	AN H = 2 CASES	AN I = 2 CASES	
							CS. NO. MN. 60 CS. NO. MI. 55	CS. NO. MN. 103 CS. NO. MI. 104	

IPAGE 30 BMDP30 ANALISIS DISCRIMINANTE RECIENTE NACIDOS SALES BILIARES

DIFFERENCES ON SINGLE VARIABLES

*****	RAT	VARIABLE	NUMER	1	GROUP	4 GRUPO4	5 GRUPO5	4 GRUPO4 (N= 23)	5 GRUPO5 (N= 12)
*****	STATISTICS	P-VALUE	DF	MEAN	4 GRUPO4	5 GRUPO5			
T (SEPARATE)	1.55	.1312	29.0	222.9211	118.7833				
T (FOOLED)	1.19	.2443	33	255.3913	79.6592		H		
T (TRIM SEP.)	1.79	.0564	23.0	53.2527	22.9553		H		
T (TRIM FOOLED)	1.26	.2167	29				H		
F (FOR VARIANCES)				SAMPLE SIZE	23	12			
LEvene	4.55	.0403	1, 33	MAXIMUM	1020.0222	341.1222	I		
				MINIMUM	24.8222	51.2222	II		
				MAX(2ND)	720.8222	153.8222	III I		
				MIN(2ND)	29.4222	57.2222	IIII I		
				MI. ST. SC.	3.1759	2.7927	MIN-----MAX	MIN-----MAX	
				MI. ST. SC.	-.7218	-.8529	AN H = 2 CASES	AN I = 2 CASES	
							CS. NO. MN. 77 CS. NO. MI. 63	CS. NO. MN. 93 CS. NO. MI. 99	

*****	TAURO	VARIABLE	NUMER	2	GROUP	4 GRUPO4	5 GRUPO5	4 GRUPO4 (N= 23)	5 GRUPO5 (N= 12)
*****	STATISTICS	P-VALUE	DF	MEAN	4 GRUPO4	5 GRUPO5			
T (SEPARATE)	1.89	.0725	24.6	41.7130	17.4250				
T (FOOLED)	1.38	.1782	33	82.2417	18.9211		H		
T (TRIM SEP.)	1.67	.0751	21.9	12.5613	3.1222		H		
T (TRIM FOOLED)	1.38	.2033	29				H		
F (FOR VARIANCES)				SAMPLE SIZE	23	12			
LEvene	5.74	.0224	1, 33	MAXIMUM	232.8222	43.8222	II		
				MINIMUM	4.8222	5.8222	III		
				MAX(2ND)	189.8222	27.8222	IIII I		
				MIN(2ND)	5.2222	6.2222	MIN-----MAX	MIN-----MAX	
				MI. ST. SC.	3.1722	2.4374	AN H = 2 CASES	AN I = 2 CASES	
				MI. ST. SC.	-.6127	-1.0743	CS. NO. MN. 77 CS. NO. MI. 76	CS. NO. MN. 93 CS. NO. MI. 99	

*****	GLICO	VARIABLE	NUMER	3	GROUP	4 GRUPO4	5 GRUPO5	4 GRUPO4 (N= 23)	5 GRUPO5 (N= 12)
*****	STATISTICS	P-VALUE	DF	MEAN	4 GRUPO4	5 GRUPO5			
T (SEPARATE)	.93	.3575	32.6	56.1739	37.1417				
T (FOOLED)	.75	.4571	33	82.8484	37.5172		H		
T (TRIM SEP.)	1.34	.1938	24.9	17.2751	10.8303		H		
T (TRIM FOOLED)	.96	.3444	29				H		
F (FOR VARIANCES)				SAMPLE SIZE	23	12			
LEvene	2.68	.1114	1, 33	MAXIMUM	355.2222	149.8222	I		
				MINIMUM	4.4222	12.4222	II		
				MAX(2ND)	214.2222	56.8222	III I		
				MIN(2ND)	5.8222	13.8222	MIN-----MAX	MIN-----MAX	
				MI. ST. SC.	3.6893	2.9762	AN H = 2 CASES	AN I = 2 CASES	
				MI. ST. SC.	-.6249	-.7128	CS. NO. MN. 80 CS. NO. MI. 79	CS. NO. MN. 98 CS. NO. MI. 99	

*****	COLICO	VARIABLE	NUMER	4	GROUP	4 GRUPO4	5 GRUPO5	4 GRUPO4 (N= 23)	5 GRUPO5 (N= 12)
*****	STATISTICS	P-VALUE	DF	MEAN	4 GRUPO4	5 GRUPO5			
T (SEPARATE)	.63	.5362	25.4	11.5120	9.6917				
T (FOOLED)	.47	.6438	33	13.2322	3.1425		H H		
T (TRIM SEP.)	.35	.7259	25.7	2.7625	.9272		H H H		
T (TRIM FOOLED)	.25	.8019	29				H H H		
F (FOR VARIANCES)				SAMPLE SIZE	23	12			
LEvene	4.12	.0526	1, 33	MAXIMUM	55.8222	14.4222	I		
				MINIMUM	1.4222	5.8222	II		
				MAX(2ND)	39.4222	14.3222	III		
				MIN(2ND)	1.4222	6.8222	IIII		
				MI. ST. SC.	3.3301	1.4583	MIN-----MAX	MIN-----MAX	
				MI. ST. SC.	-.7468	-1.4938	AN H = 1 CASES	AN I = 1 CASES	
							CS. NO. MN. 71 CS. NO. MI. 76	CS. NO. MN. 93 CS. NO. MI. 101	

DIFFERENCES ON SINGLE VARIABLES

*****	VARIABLE NUMBER	5	GROUP	4 GRUPO4	5 GRUPO5	4 GRUPO4 (N= 23)	5 GRUPO5 (N= 12)
# DC			MEAN	8.4261	5.1833	H	
STATISTICS	P-VALUE	DF	STD DEV	9.6479	4.5749	H	
			S.E.M.	2.0117	1.3276	H	
T (SEPARATE)	1.35	.1878	SAMPLE SIZE	23	12	M	
T (POOLED)	1.18	.2918	MAXIMUM	40.8880	15.8880	M	II
T (TRIM SEP.)	1.48	.1738	MINIMUM	1.6880	1.2880	M	II
T (TRIM POOLED)	1.11	.2778	MAX(2ND)	38.8880	18.8880	M	II III I
F (FOR VARIANCES)			MIN(2ND)	1.6880	1.2880	MIN-----MAI	MIN-----MAI
LEVENE	1.76	.1939	1.	33	3.3555	2.2778	AN I = 1 CASES
			MX.ST.SC.		2.2778	76	CS.NO.MN. 94 CS.NO.MI. 188
			MN.ST.SC.		-1.7875		

*****	VARIABLE NUMBER	6	GROUP	4 GRUPO4	5 GRUPO5	4 GRUPO4 (N= 23)	5 GRUPO5 (N= 12)
# DC			MEAN	2.1957	1.7333	H	
STATISTICS	P-VALUE	DF	STD DEV	2.1149	1.7122	H	
			S.E.M.	.4418	.4543	H	
T (SEPARATE)	.78	.4712	SAMPLE SIZE	23	12	M	
T (POOLED)	.65	.5166	MAXIMUM	7.5880	5.8880	M	I
T (TRIM SEP.)	.78	.4438	MINIMUM	1.2880	1.2880	M	I
T (TRIM POOLED)	.71	.4857	MAX(2ND)	6.5880	4.2880	M	II III I I
F (FOR VARIANCES)			MIN(2ND)	1.2880	1.2880	MIN-----MAI	MIN-----MAI
LEVENE	.42	.5192	1.	33	2.5882	2.2583	AN I = 2 CASES
			MX.ST.SC.		-1.9437		CS.NO.MN. 88 CS.NO.MI. 91
			MN.ST.SC.		-.8756		CS.NO.MN. 95 CS.NO.MI. 183

*****	VARIABLE NUMBER	7	GROUP	4 GRUPO4	5 GRUPO5	4 GRUPO4 (N= 23)	5 GRUPO5 (N= 12)
# RATIO1			MEAN	57.5217	15.8887	H	I
STATISTICS	P-VALUE	DF	STD DEV	98.4432	11.2267	H	I
			S.E.M.	18.8587	3.2351	H	I
T (SEPARATE)	2.22	.0365	SAMPLE SIZE	23	12	M	I
T (POOLED)	1.61	.1173	MAXIMUM	412.8880	38.7880	M	II
T (TRIM SEP.)	2.57	.0174	MINIMUM	3.2880	4.1880	M	II
T (TRIM POOLED)	1.88	.0826	MAX(2ND)	196.8880	25.8880	M	II
F (FOR VARIANCES)			MIN(2ND)	5.2880	4.5880	MIN-----MAI	MIN-----MAI
LEVENE	5.33	.0274	1.	33	3.9282	2.1827	AN I = 2 CASES
			MX.ST.SC.		-.6327		CS.NO.MN. 77 CS.NO.MI. 79
			MN.ST.SC.				CS.NO.MN. 93 CS.NO.MI. 99

*****	VARIABLE NUMBER	8	GROUP	4 GRUPO4	5 GRUPO5	4 GRUPO4 (N= 23)	5 GRUPO5 (N= 12)
# RATIO2			MEAN	85.1435	32.7250	H	I
STATISTICS	P-VALUE	DF	STD DEV	157.2522	28.8522	H	I
			S.E.M.	32.7897	5.8738	H	I
T (SEPARATE)	1.65	.1894	SAMPLE SIZE	23	12	M	II
T (POOLED)	1.21	.2348	MAXIMUM	652.8880	65.2880	M	III
T (TRIM SEP.)	1.68	.1277	MINIMUM	4.6880	18.5880	M	III
T (TRIM POOLED)	1.16	.2554	MAX(2ND)	447.8880	58.4880	M	III
F (FOR VARIANCES)			MIN(2ND)	7.8880	13.5880	MIN-----MAI	MIN-----MAI
LEVENE	6.13	.0188	1.	33	3.5327	2.8127	AN I = 3 CASES
			MX.ST.SC.		-.5313		CS.NO.MN. 77 CS.NO.MI. 83
			MN.ST.SC.		-1.1858		CS.NO.MN. 93 CS.NO.MI. 99

DIFFERENCES ON SINGLE VARIABLES

*****	VARIABLE NUMBER	9	GROUP	4 GRUPO4	5 GRUPO5	4 GRUPO4 (N= 23)	5 GRUPO5 (N= 12)
# RATIOS			MEAN	.8357	1.1758	H	
STATISTICS	P-VALUE	DF	STD DEV	.4477	.4825	H	
			S.E.M.	.0934	.1162	H	
T (SEPARATE)	-1.87	.0728	SAMPLE SIZE	23	12	M	
T (POOLED)	-1.81	.0753	MAXIMUM	1.9880	1.6880	M	I
T (TRIM SEP.)	-1.67	.1059	MINIMUM	1.3880	.6880	M	I
T (TRIM POOLED)	-1.68	.1222	MAX(2ND)	1.5880	1.7880	M	I
F (FOR VARIANCES)			MIN(2ND)	1.3880	.7880	MIN-----MAI	MIN-----MAI
LEVENE	.03	.8758	1.	33	2.2434	1.5526	AN I = 1 CASES
			MX.ST.SC.		-1.3385		CS.NO.MN. 82 CS.NO.MI. 81
			MN.ST.SC.				CS.NO.MN. 183 CS.NO.MI. 93

*****	VARIABLE NUMBER	10	GROUP	4 GRUPO4	5 GRUPO5	4 GRUPO4 (N= 23)	5 GRUPO5 (N= 12)
# RATIO4			MEAN	1.4565	2.2717	H	I
STATISTICS	P-VALUE	DF	STD DEV	1.1581	1.1281	H	I
			S.E.M.	.2436	.3282	H	I
T (SEPARATE)	-2.25	.0517	SAMPLE SIZE	23	12	M	I
T (POOLED)	-2.03	.0855	MAXIMUM	5.8880	5.2880	M	I
T (TRIM SEP.)	-2.38	.0318	MINIMUM	4.8880	1.3880	M	I
T (TRIM POOLED)	-2.12	.0423	MAX(2ND)	4.8880	5.3880	M	I
F (FOR VARIANCES)			MIN(2ND)	1.8880	1.5880	MIN-----MAI	MIN-----MAI
LEVENE	.13	.7238	1.	33	3.5473	2.8619	AN I = 1 CASES
			MX.ST.SC.		-1.5845		CS.NO.MN. 81 CS.NO.MI. 83
			MN.ST.SC.				CS.NO.MN. 183 CS.NO.MI. 184

NUMBER OF INTEGER WORDS OF STORAGE USED IN PROCESSING PROBLEM 2278
CPU TIME USED 19.287 SECONDS

IFAGE 33
BMDP3D - ONE-SAMPLE AND TWO-SAMPLE T-TESTS
EXECUTED ON 88/11/25 AT 13.16.25.

PROGRAM CONTROL INFORMATION

NO MORE CONTROL LANGUAGE.
PROGRAM TERMINATED

APENDICE C.

Análisis de Regresión Lineal y Correlación.

Cociente C:QDC

1PAGE 1 BMDP60

BMDP60 - BIVARIATE (SCATTER) PLOTS
BMDP STATISTICAL SOFTWARE, INC.
1944 WESTWOOD BLVD. SUITE 202
(213) 475-5700
PROGRAM REVISED OCTOBER 1983
MANUAL REVISED -- 1983
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TO SEE REMARKS AND A SUMMARY OF NEW FEATURES FOR
THIS PROGRAM, STATE HERE, IN THE FIRST PARAGRAPH.

THIS VERSION OF BMDP-63 HAS BEEN CONVERTED FOR
CDC MDS AND MDS/SE OPERATING SYSTEMS
BY BMDP PROJECT, VOELBACK COMPUTING CENTER
NORTHWESTERN UNIVERSITY
2129 SHERIDAN ROAD
EVANSTON, ILLINOIS 60201
(312) 492-3681

RELEASE DATE, APRIL 1985
EXECUTED ON 02/12/89, AT 13.12.43.

PROGRAM CONTROL INFORMATION

```
/FFOCLER  
TITLE = 'ANALISIS DISCRIMINANTE FOCION HACIDOS SALES BILIARES'.  
/INPUT  
FILE = 'MATRIZ'.  
FORMAT = '(F5.1,1X,F5.1,1X,F5.1,1X,F5.1,1X,F5.1,1X,  
F5.1,1X,F5.1,1X,F5.1,1X,F5.1,1X,F1.0)'.  
VARIABLES = 11.  
/VARIABLE  
NAMES = SBT,TAURO,OLICO,COLICO,ODO,OC,FAT101,FAT102,SAT103,PAT104,GRUFO.  
GROUPING = GRUFO.  
USE=COLICO,ODO.  
/GROUP  
COJES(11) = 1,2,3,4,5.  
NAMES(11) = GRUFO1,CONT2,GRUFO3,GRUFO4,GRUFO5.  
/PLOT  
YVAR = COLICO, YVAR= ODO.  
GROUPS = GRUFO1,CONT2,GRUFO3,GRUFO4,GRUFO5.  
GROUP = GRUFO1.  
GROUP = CONT2.  
GROUP = GRUFO3.  
GROUP = GRUFO4.  
GROUP = GRUFO5.  
STATISTICS.  
/END/.
```

IFAGE 2 RMDFD ANALISIS DISCRIMINANTE RECTEN HACIDOS SALES BILIARES

PROBLEM TITLE IS
ANALISIS DISCRIMINANTE RECTEN HACIDOS SALES BILIARES

NUMBER OF VARIABLES TO READ IN. 11
 NUMBER OF VARIABLES ADDED BY TRANSFORMATIONS. 2
 TOTAL NUMBER OF VARIABLES 11
 NUMBER OF CASES TO READ IN. TO END
 CASE LABELING VARIABLES
 MISSING VALUES CHECKED BEFORE OR AFTER TRANS. NEITHER
 PLANS ARE. MISSING
 INPUT FILE. UNIT 7 MATRIX
 REWIND INPUT UNIT PRIOR TO READING. DATA. YES
 NUMBER OF WORDS OF DYNAMIC STORAGE. 11998
 NUMBER OF CASES DESCRIBED BY INPUT FORMAT 1

VARIABLES TO BE USED
4 COLICO 5 CDC

INPUT FORMAT IS
(F5.1,1X,F5.1,1X,F5.1,1X,F5.1,1X,F5.1,1X, F5.1,1X,F5.1,1X,F5.1,1X,F5.1,
1X,F1.8)

MAXIMUM LENGTH DATA RECORD IS 61 CHARACTERS.

INPUT VARIABLES						VARIABLES					
VARIABLE INDEX	NAME	RECORD NO.	COLUMNS BEGIN	END	FIELD TYPE	VARIABLE INDEX	NAME	RECORD NO.	COLUMNS BEGIN	END	FIELD TYPE
1	SRT	1	1	5	5.1 F	7	RATIO1	1	37	41	5.1 F
2	TARRO	1	7	11	5.1 F	8	RATIO2	1	43	47	5.1 F
3	GLICO	1	13	17	5.1 F	9	RATIO3	1	49	53	5.1 F
4	COLICO	1	19	23	5.1 F	10	RATIO4	1	55	59	5.1 F
5	CDC	1	25	29	5.1 F	11	GRUPO	1	61	61	1 F
6	DC	1	31	35	5.1 F						

GROUPING VARIABLE 11 GRUPO
 BASED ON INPUT FORMAT SUPPLIED 1 RECORDS READ PER CASE.

NUMBER OF CASES READ. 122
 CASES WITH GROUPING VALUES NOT USED. 5
 REMAINING NUMBER OF CASES 127

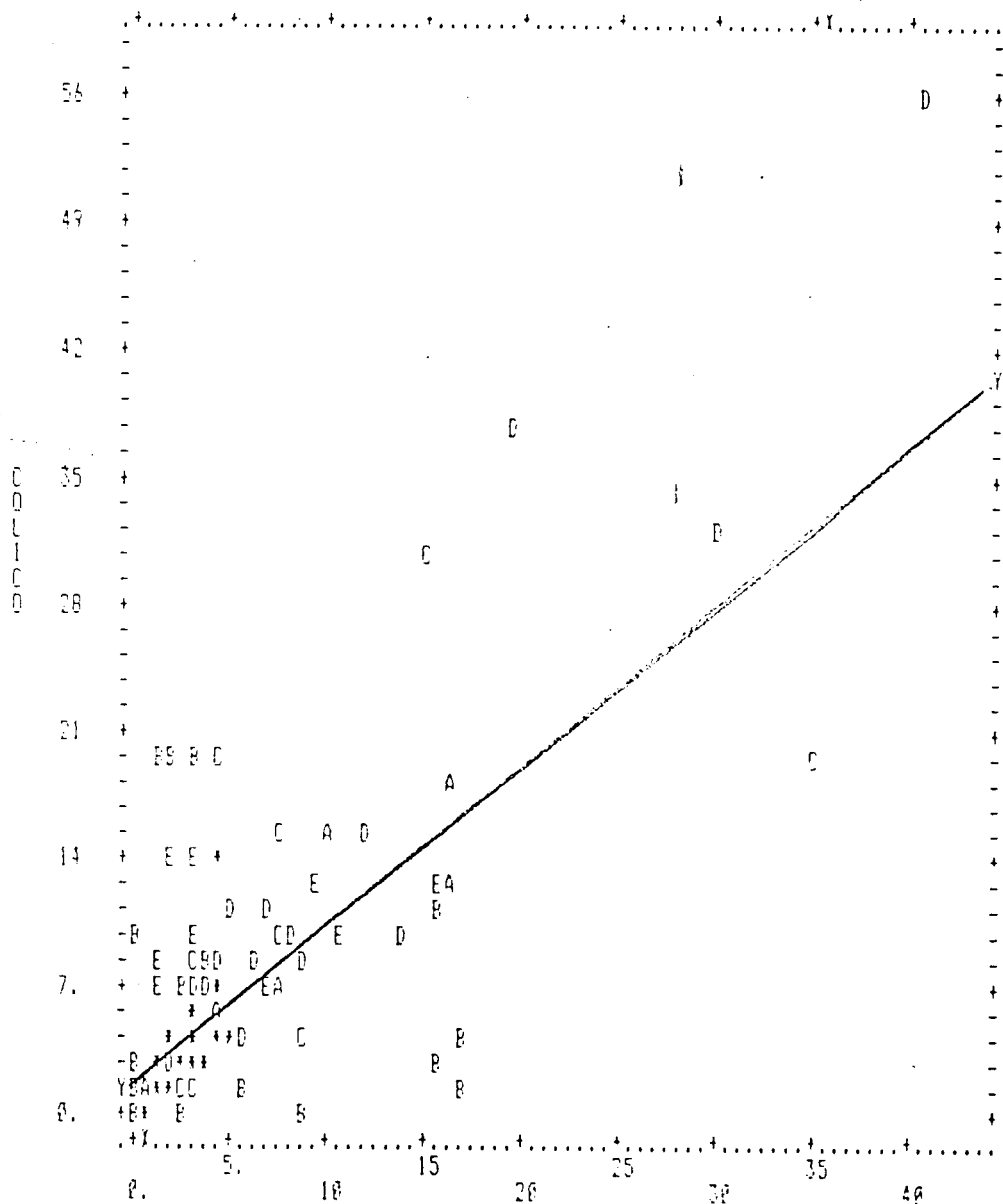
IFASE 3 BMDP6D ANALISIS DISCRIMINANTE FECIEN NACIDOS SALES BILIARES
 CODEBOOK

VARIABLE NO. NAME	MINIMUM LIMIT	MAXIMUM LIMIT	MISSING CODE	CATEGORY CODE	CATEGORY NAME	INTERVAL RANGE	
						GREATER THAN	LESS THAN OR = 10
11 GRUFO				1.0000	GRUFO1		
				2.0000	CONT2		
				3.0000	GRUFO3		
				4.0000	GRUFO4		
				5.0000	GRUFO5		

IFASE 4 BMDP6D ANALISIS DISCRIMINANTE FECIEN NACIDOS SALES BILIARES
 TABLE OF CONTENTS

HORIZONTAL VARIABLE NO. NAME	VERTICAL VARIABLE NO. NAME	GROUP NAME	PLOT SYMBOL	FACE NO.
5 PBC	4 COLICO	GRUFO1	A	5
		CONT2	B	5
		GRUFO3	C	5
		GRUFO4	D	5
		GRUFO5	E	5
		GRUFO1	A	6
		CONT2	B	7
		GRUFO3	C	8
		GRUFO4	D	9
		GRUFO5	E	10

FIGURE 5. CANONICAL ANALYSIS DISCRIMINANT FUNCTION FACTORS SALES BILLIARDS

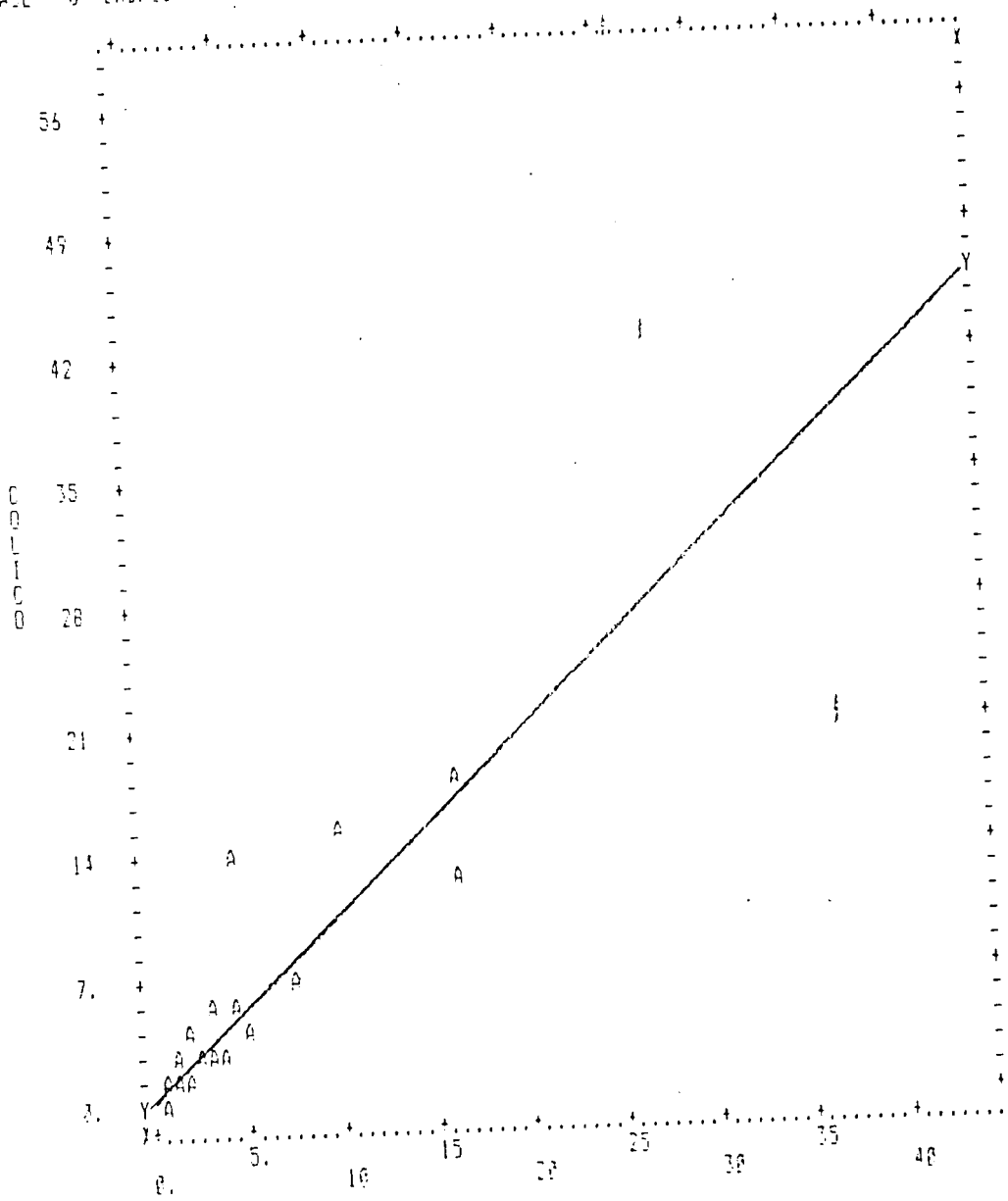


N = 103
R = .6921
F(R) P.000
MEAN ST.DEV. REGRESSION LINE RES.MS.
X 5.7184 6.9673 X = .56224*Y + 1.5469 25.674
Y 7.4194 8.5523 Y = .84714*X + 2.5751 38.683

XVAR = 5 QDC	VS. YVAR = 4 COLICO	GROUP=GRUF01	SYMBOL=A
XVAR = 5 QDC	VS. YVAR = 4 COLICO	GROUP=GRUF02	SYMBOL=B
XVAR = 5 QDC	VS. YVAR = 4 COLICO	GROUP=GRUF03	SYMBOL=C
XVAR = 5 QDC	VS. YVAR = 4 COLICO	GROUP=GRUF04	SYMBOL=D
XVAR = 5 QDC	VS. YVAR = 4 COLICO	GROUP=GRUF05	SYMBOL=E

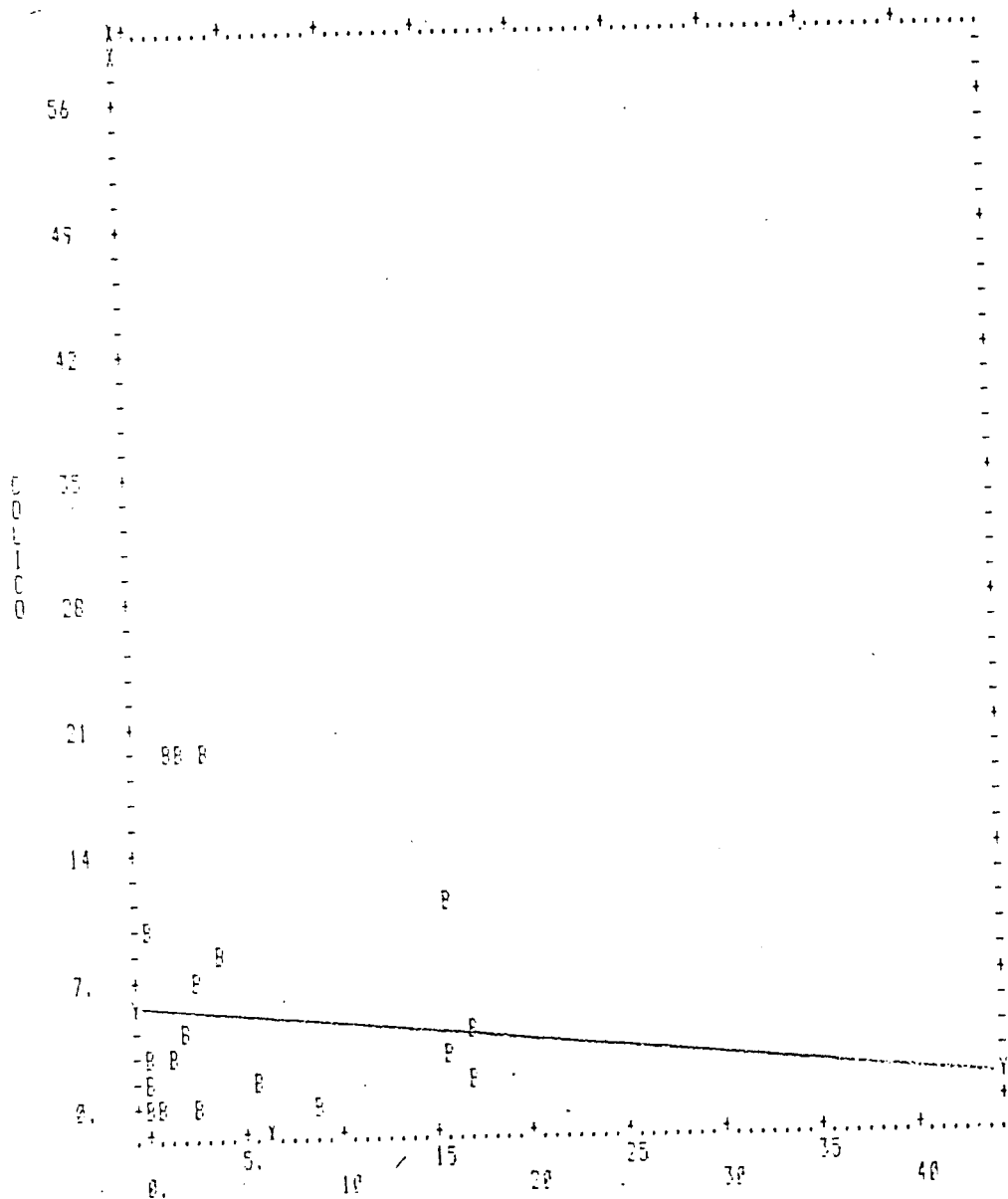


GRABE 6 EMPLEO ANALISIS DISCRIMINANTE FICION NACIDOS SALES BILIARES



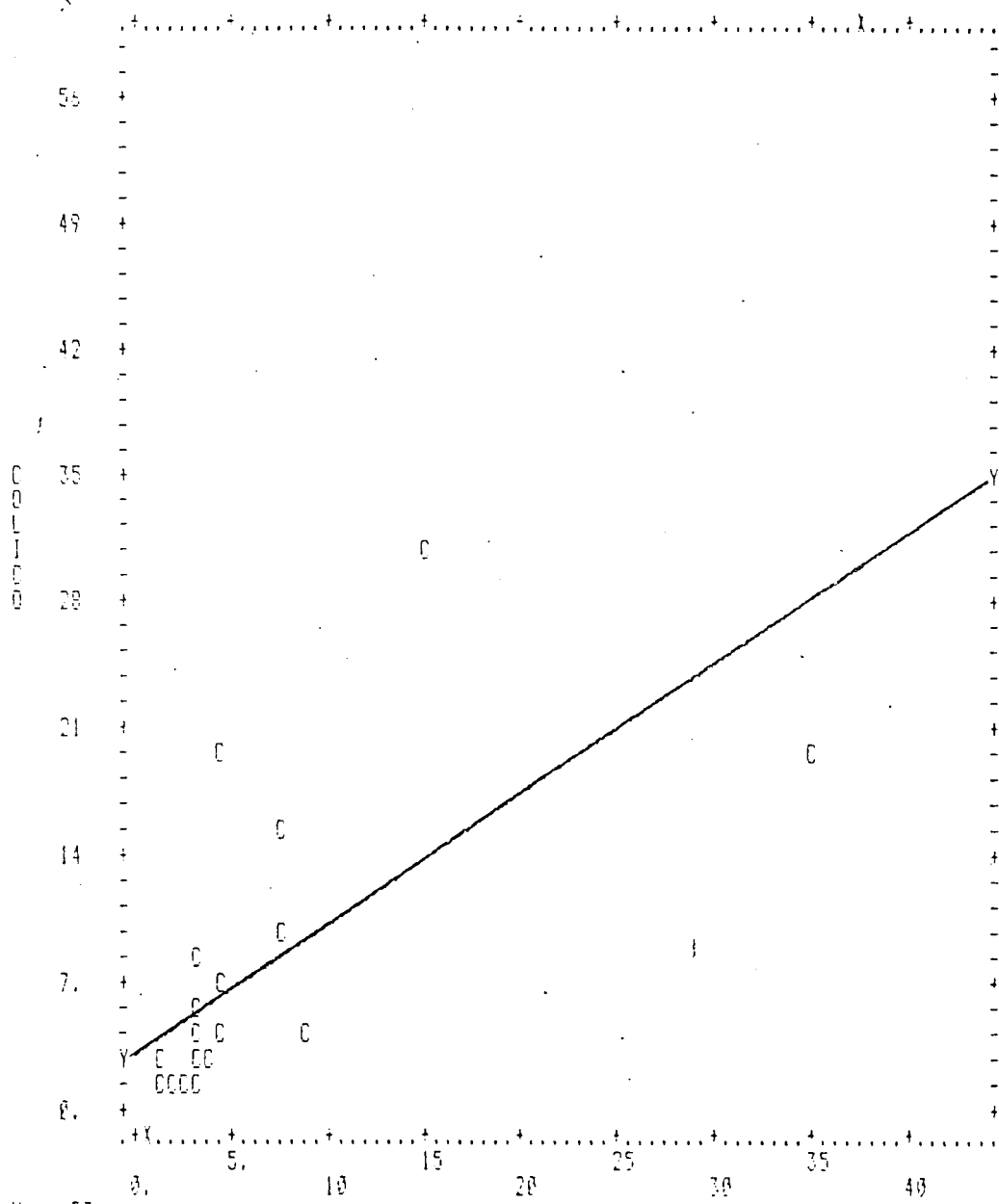
N = 21			
R = .8652			
F(R) 0.000			
	MEAN	ST. DEV.	REGRESSION LINE
X	4.2000	4.5677	$X = .74472 * Y + .32962$
Y	5.2000	5.3120	$Y = 1.2057 * X + .97627$
			RES. MS.
			5.5206
			7.4658

XVAR = 5 CDC VS. YVAR = 4 COLICO GROUP=GRUPO1, SYMBO=A
 1PAGE 7 EMPAD ANALISIS DISCRIMINANTE RECIBEN NACIDOS SALDS BILIARES



N = 24
 R = -.1097
 F(R) .5974
 MEAN ST. DEV. REGRESSION LINE RES. MS.
 X 5.2792 6.1829 $Y = -.10945 * X + 5.8449$ 37.218
 Y 5.1583 6.1736 $Y = -.10927 * X + 5.7384$ 37.365

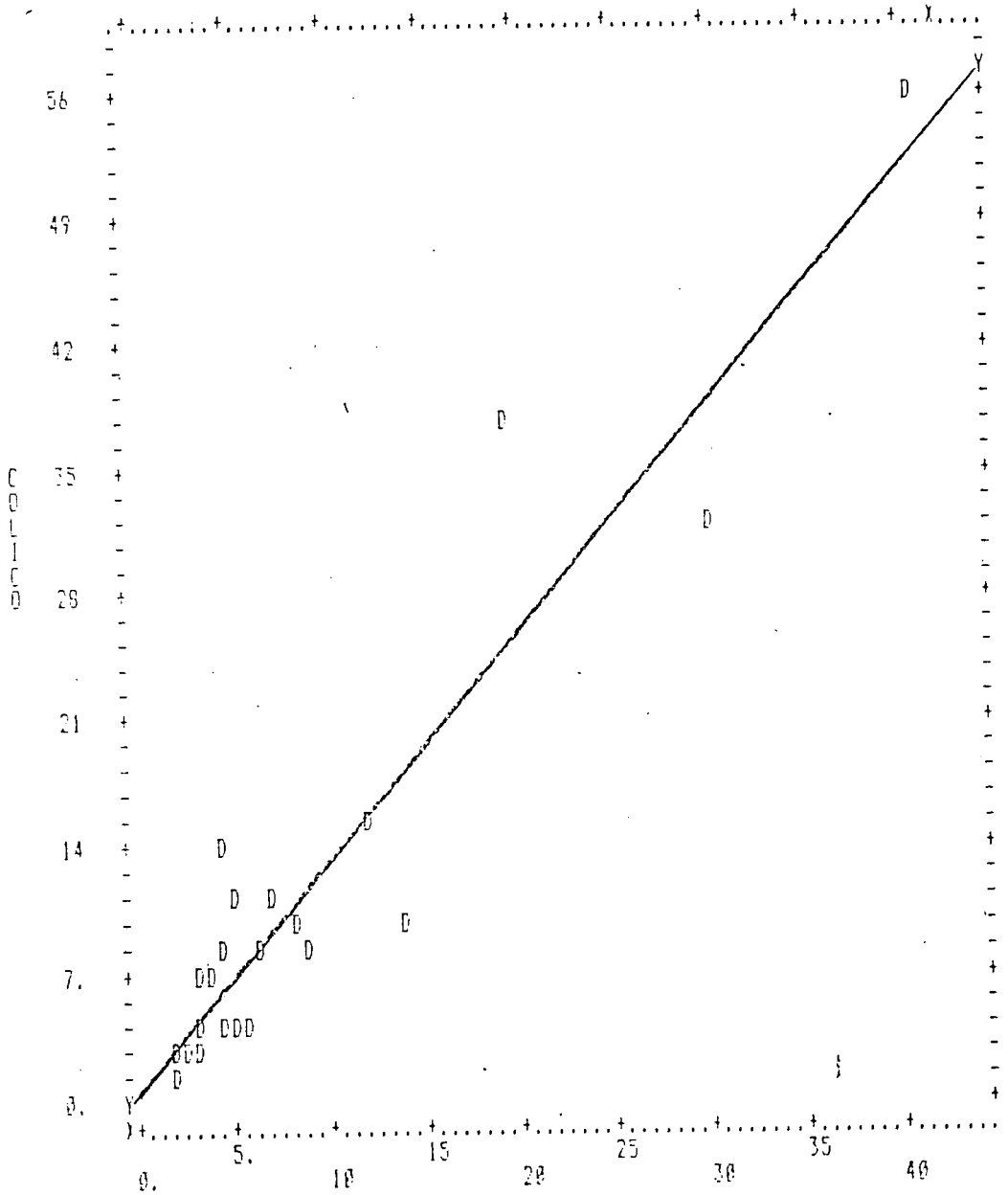
XVAR = 5 DDC VS. YVAR = 4 COLICO GROUP=CONT2 , SYMPL=B
 PAGE 8 ENDP60 ANALISIS DISCRIMINANTE SECCION NACIDOS SALES FILIARES



N = 23
 R = .6575
 F(R) 22E-5

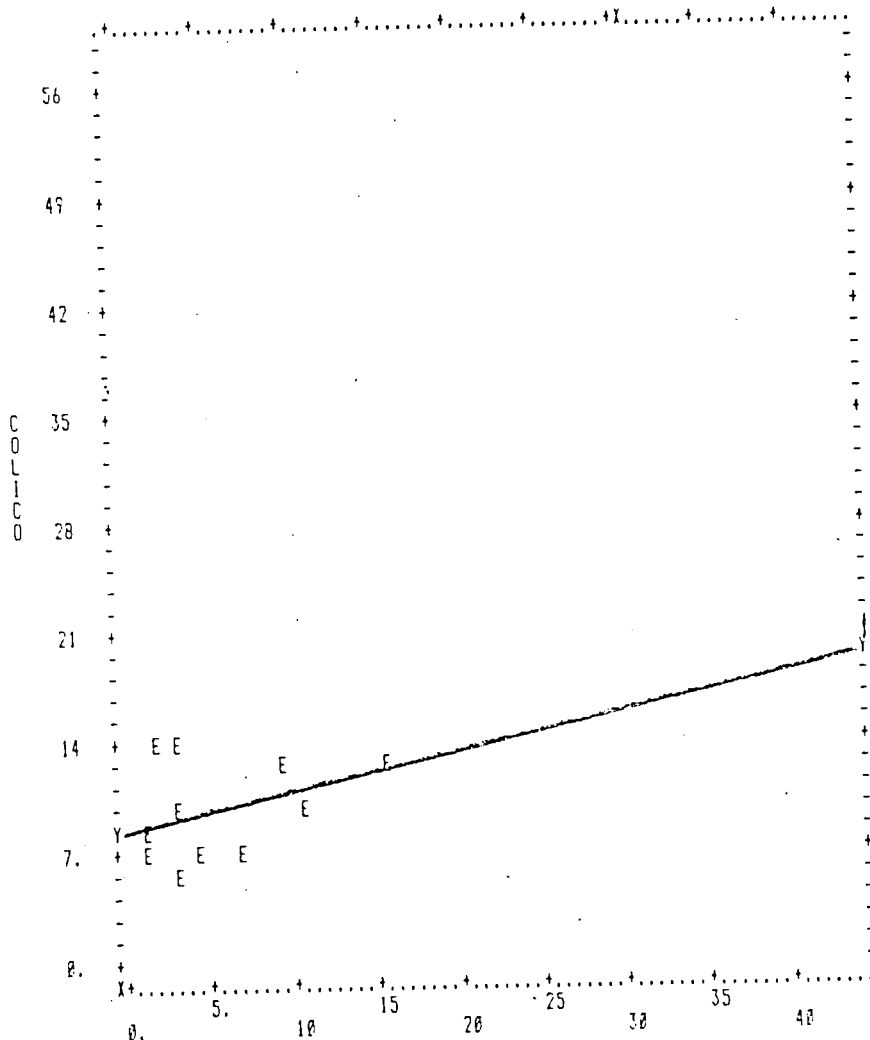
	MEAN	ST. DEV.	REGRESSION LINE	RES. MS.
X	5.1348	7.2275	$X = .60374 + Y + 1.1947$	31.066
Y	6.5261	7.0712	$Y = .71607 + X + 2.8492$	36.846

XVAR = 5 DDC VS. YVAR = 4 COLICO GROUP=GRUPO3, SYMBOL=C
 1PAGE 9 ENDP&D ANALISIS DISCRIMINANTE RECIEN NACIDOS SALES BILIARES



N = 23
 R = .9417
 P(R) 0.000
 MEAN ST. DEV. REGRESSION LINE RES. MS.
 X 8.4261 9.6479 X = .62629*Y + .52482 11.834
 Y 11.513 13.239 Y = 1.2922*X + .62447 28.776

YVAR = 5 DDC VS. YVAR = 4 COLICO GROUP=GRUPO4, SYMBOL=D
 1PAGE 10 BMDP6D ANALISIS DISCRIMINANTE RECIEN NACIDOS SALES BILIARES



N = 12
 R = .3439
 F(R) .2345
 MEAN ST. DEV. REGRESSION LINE RES. MS.
 X 5.1833 4.5748 X = .56859*Y + .33181 28.388
 Y 9.6917 3.1425 Y = .23621*X + 0.4673 9.5785

Análisis de Regresión Lineal y Correlación.

Cociente QDC:DC.

IFAGE 1 BMDP6D

BMDP6D - BIVARIATE (SCATTER) PLOTS
BMDP STATISTICAL SOFTWARE, INC.
1984 WESTWOOD BLVD. SUITE 202
(213) 475-5700
PROGRAM REVISED OCTOBER 1983
MANUAL REVISED -- 1983
COPYRIGHT (C) 1983 REGENTS OF UNIVERSITY OF CALIFORNIA

TO SEE REMARKS AND A SUMMARY OF NEW FEATURES FOR
THIS PROGRAM, STATE NEWS. IN THE PRINT PARAGRAPH.

THIS VERSION OF BMDP-83 HAS BEEN CONVERTED FOR
CDC NOS AND NOS/BE OPERATING SYSTEMS
BY BMDP PROJECT, VOGELBACK COMPUTING CENTER
NORTHWESTERN UNIVERSITY
2129 SHERIDAN ROAD
EVANSTON, ILLINOIS 60201
(312) 492-3681

RELEASE DATE, APRIL 1985
EXECUTED ON 08/12/89. AT 13.19.45.

PROGRAM CONTROL INFORMATION

```
/PROBLEM
  TITLE = 'ANALISIS DISCRIMINANTE RECIENTE HACIENDAS SALES BILIARES'.
/INPUT
  FILE = 'MATRIZ'.
  FORMAT = '(F5.1,1X,F5.1,1X,F5.1,1X,F5.1,1X,F5.1,1X,
            F5.1,1X,F5.1,1X,F5.1,1X,F5.1,1X,F1.0)'.
  VARIABLES = 11.
/VARIABLE
  NAMES = SBT,TAURO,GLICO,COLICO,DDC,DC,RATIO1,RATIO2,RATIO3,RATIO4,GRUPO.
  GROUPING = GRUPO.
  USE=DDC,DC.
/GROUP
  COPIES(11) = 1,2,3,4,5.
  NAMES(11) = GRUPO1,CONT2,GRUPO3,GRUPO4,GRUPO5.
/FLOT
  YVAR = DDC. XVAR = DC.
  GROUPS = GRUPO1,CONT2,GRUPO3,GRUPO4,GRUPO5.
  GROUP = GRUPO1.
  GROUP = CONT2.
  GROUP = GRUPO3.
  GROUP = GRUPO4.
  GROUP = GRUPO5.
  STATISTICS.
/END/.
```


1PAGE 3 BMDP6D ANALISIS DISCRIMINANTE RECIEN NACIDOS SALES BILIARES

CODEBOOK

VARIABLE NO. NAME	MINIMUM LIMIT	MAXIMUM LIMIT	MISSING CODE	CATEGORY CODE	CATEGORY NAME	INTERVAL RANGE GREATER THAN	LESS THAN OR = TO
----------------------	------------------	------------------	-----------------	------------------	------------------	--------------------------------	----------------------

11 GRUPO

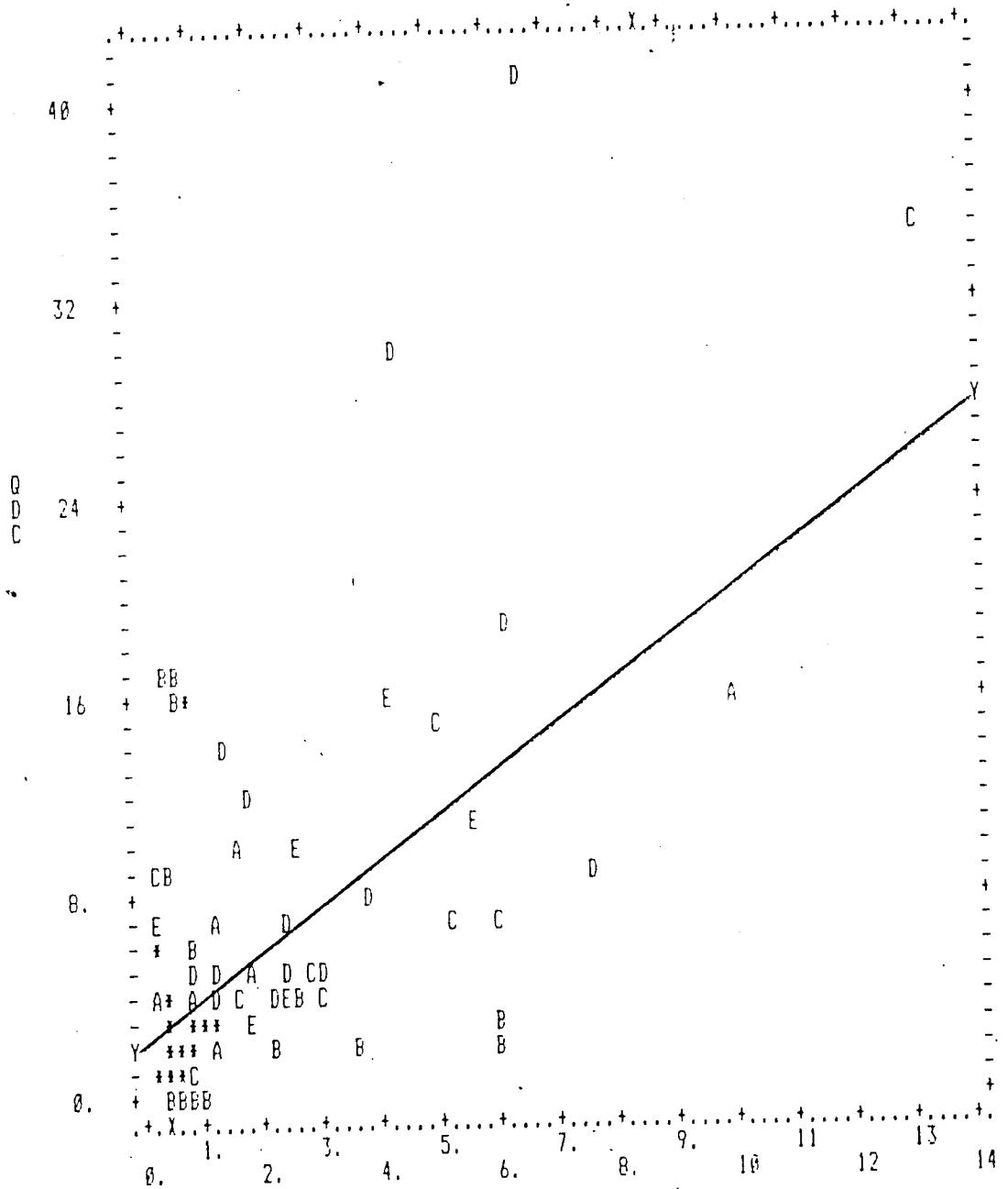
1.00000	GRUPO1
2.00000	CONT2
3.00000	GRUPO3
4.00000	GRUPO4
5.00000	GRUPO5

1PAGE 4 BMDP6D ANALISIS DISCRIMINANTE RECIEN NACIDOS SALES BILIARES

TABLE OF CONTENTS

HORIZONTAL VARIABLE NO. NAME	VERTICAL VARIABLE NO. NAME	GROUP NAME	PLOT SYMBOL	PAGE NO.
6 DC	5 CDC	GRUPO1	A	5
		CONT2	B	5
		GRUPO3	C	5
		GRUPO4	D	5
		GRUPO5	E	5
		GRUPO1	A	6
		CONT2	B	7
		GRUPO3	C	8
		GRUPO4	D	9
		GRUPO5	E	10

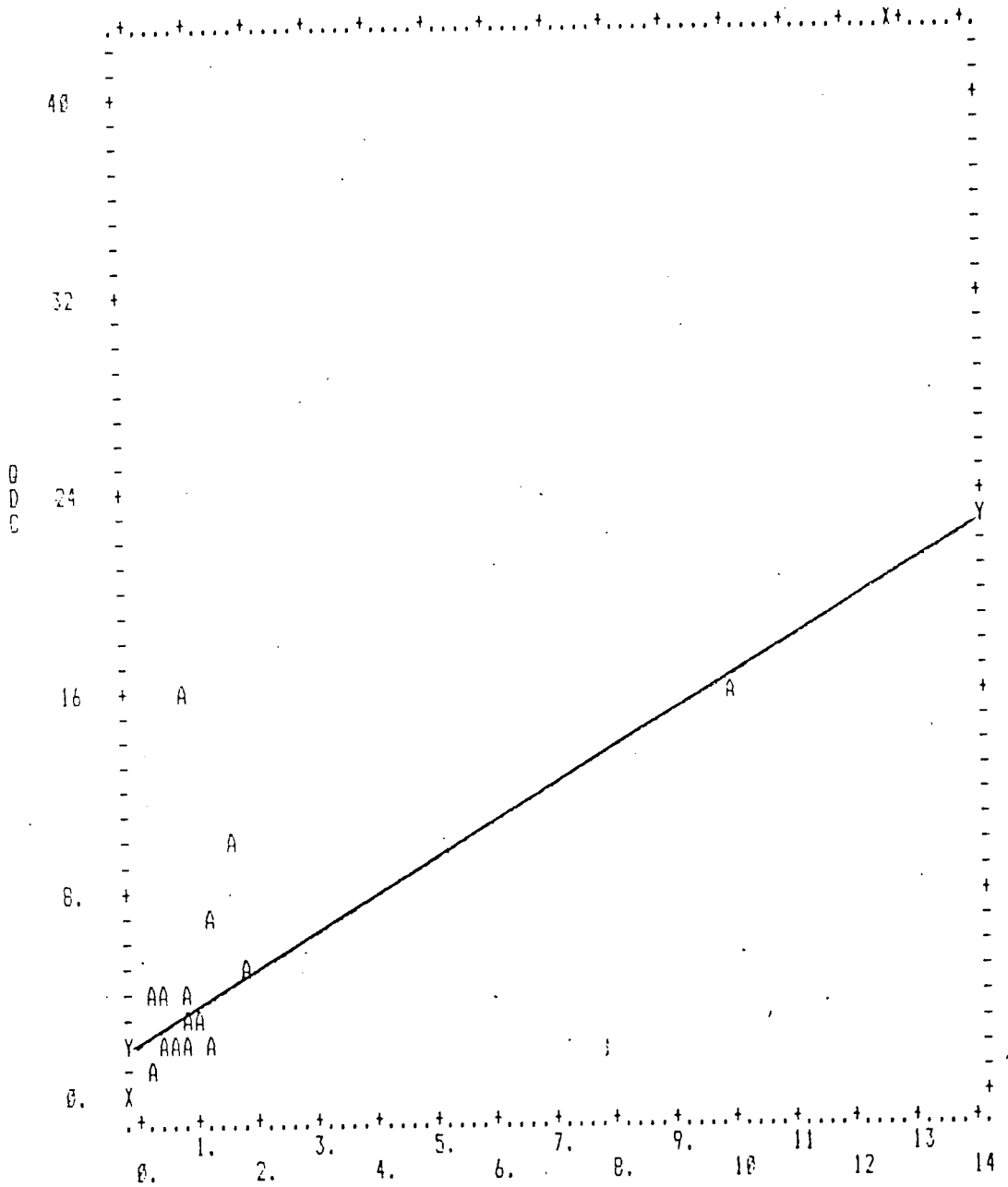
IPAGE 5 BMDP6D ANALISIS DISCRIMINANTE RECIEN NACIDOS SALES BILIARES



N = 103
R = .5733
F(R) 0.000
MEAN ST. DEV. REGRESSION LINE RES. MS.
X 1.7175 2.2466 X = .18486*Y + .66836 3.4218
Y 5.7184 6.9673 Y = 1.7780*X + 2.6648 32.911

XVAR = 6 DC	VS. YVAR = 5 QDC	GROUP=GRUP01	SYMBOL=A
XVAR = 6 DC	VS. YVAR = 5 QDC	GROUP=GRUP02	SYMBOL=B
XVAR = 6 DC	VS. YVAR = 5 QDC	GROUP=GRUP03	SYMBOL=C
XVAR = 6 DC	VS. YVAR = 5 QDC	GROUP=GRUP04	SYMBOL=D
XVAR = 6 DC	VS. YVAR = 5 QDC	GROUP=GRUP05	SYMBOL=E

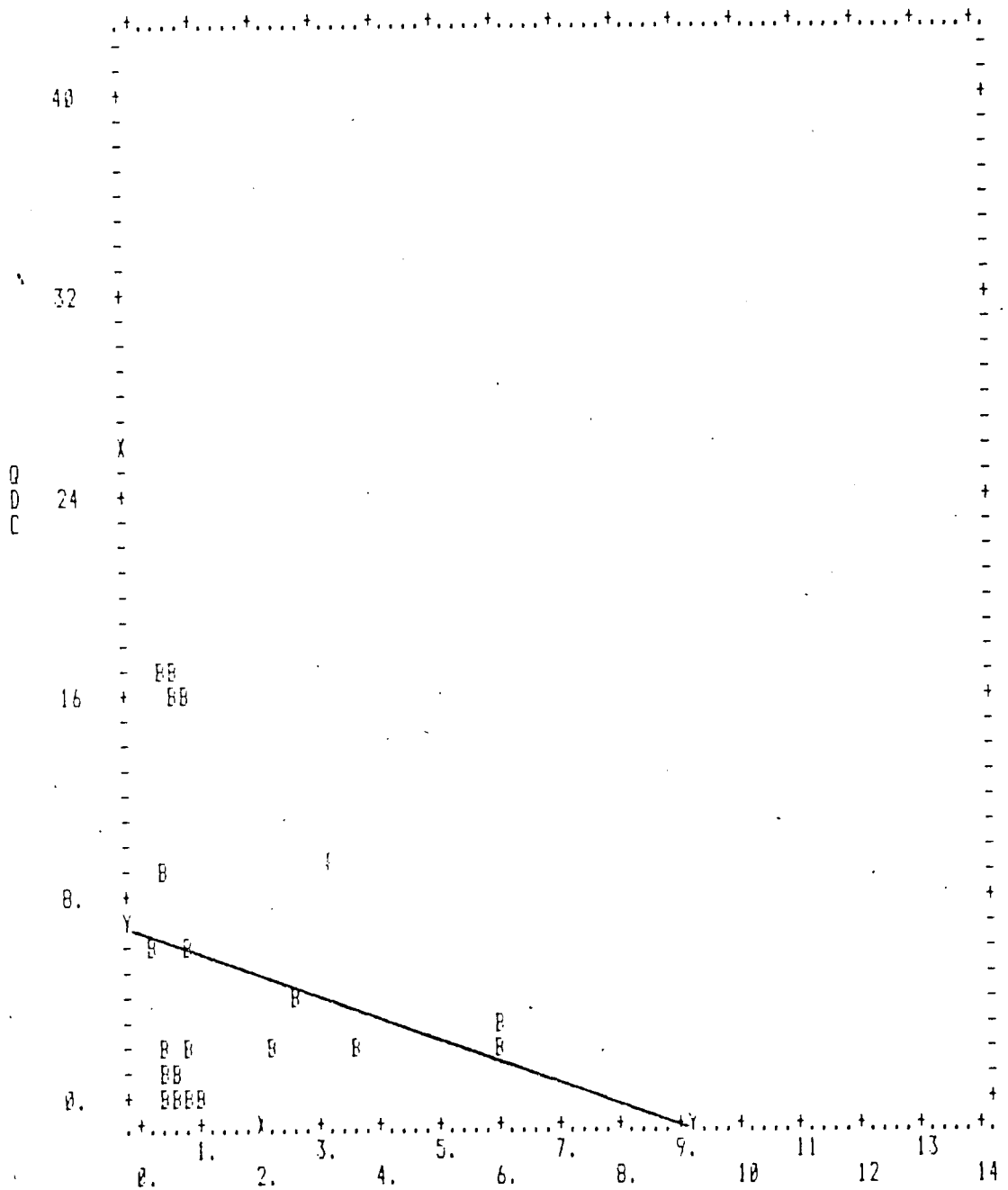
1PAGE 6 BMDP6D ANALISIS DISCRIMINANTE FIECEN NACIDOS SALES BILIARES



N = 21
R = .6503
F(R) 39E-5

	MEAN	ST.DEV.	REGRESSION LINE	RES.MS.
X	1.1429	2.8824	X = .3000*Y - .12002	2.5748
Y	4.2000	4.5699	Y = 1.4490*X + 2.5441	12.399

XVAR = 6 DC VS. YVAR = 5 DC GROUP=GRUFO1 , SYMBOL=A

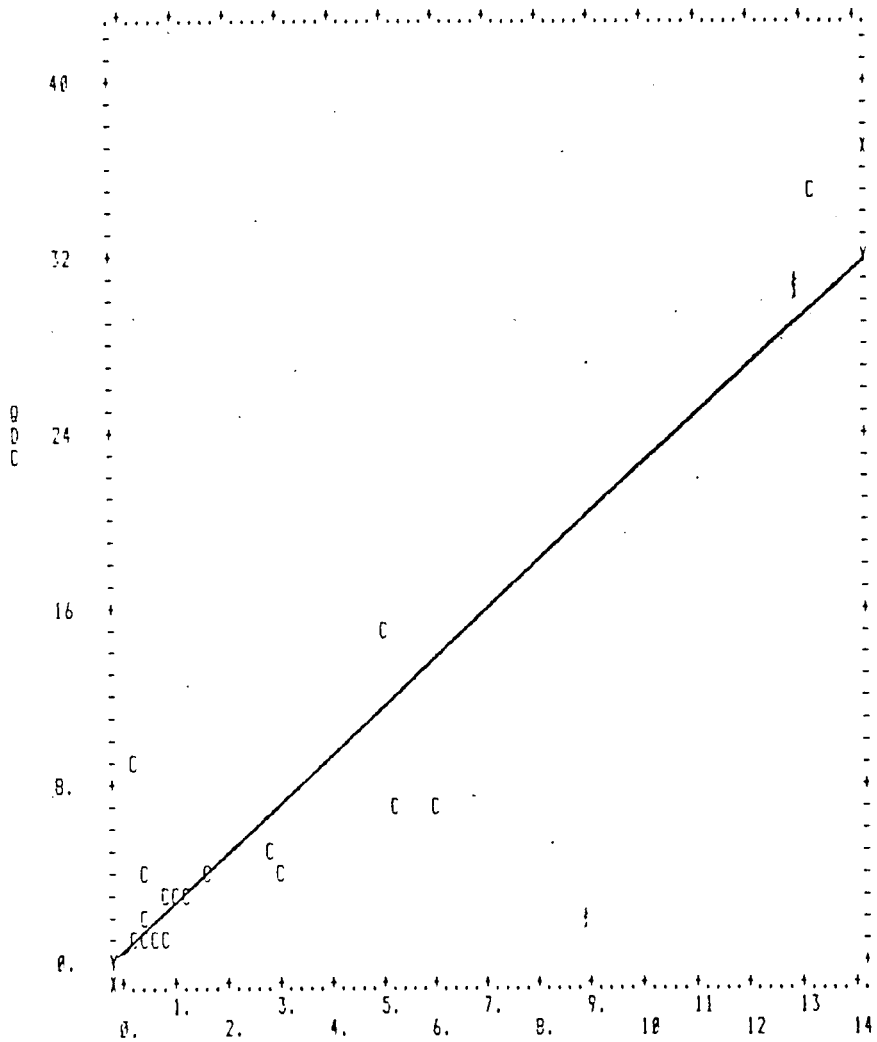


N = 24
 R = -.2576
 F(R) .2062

	MEAN	ST. DEV.	REGRESSION LINE	RES. MS.
X	1.4792	1.9283	$X = -.00061 * Y + 1.9247$	3.6292
Y	5.2792	6.1629	$Y = -.82344 * X + 6.4972$	37.072

XVAR = 6 DC VS. YVAR = 5 DDC GROUP=CONT2 , SYMBOL=B

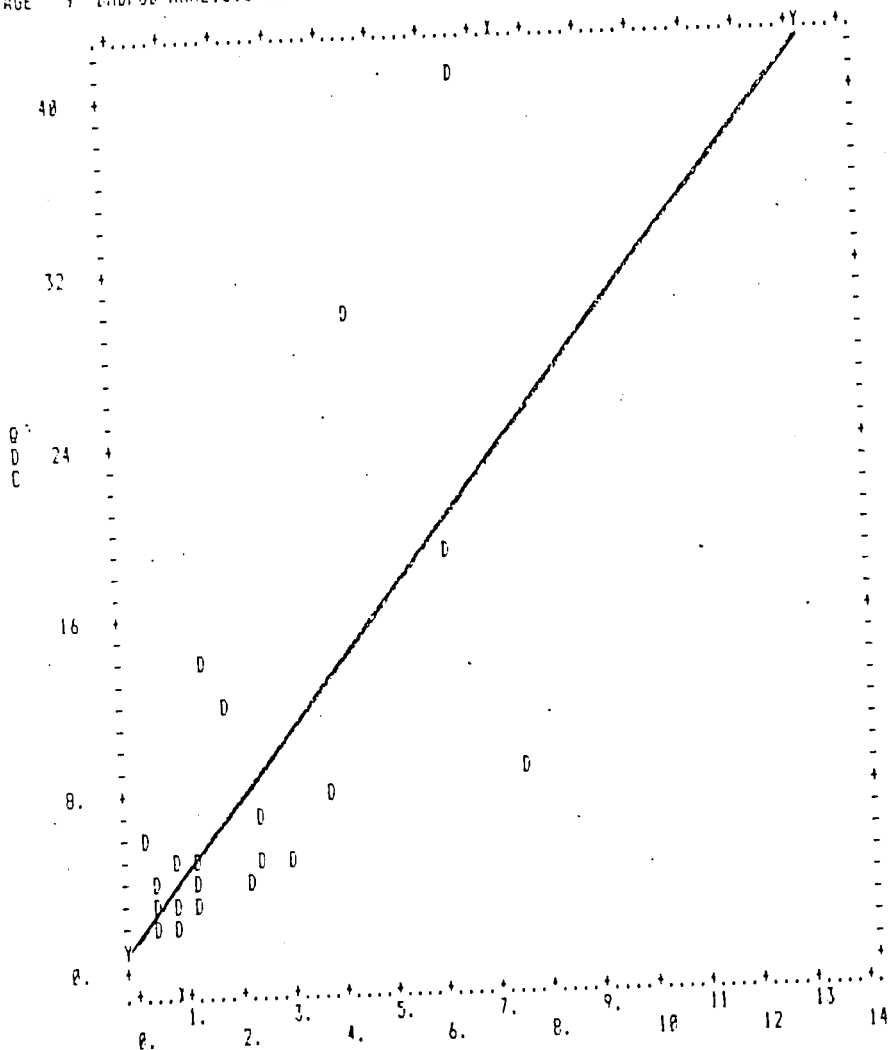
IFASE 8 BMDP60 ANALISIS DISCRIMINANTE FETEM NACIDOS SALES BILIARES



N = 23
R = .9114
P(R) 0.000
MEAN ST. DEV. REGRESSION LINE RES. MS.
X 2.0043 2.9604 X = .37626*Y + .06928 1.5037
Y 5.1348 7.2275 Y = 2.2843*X + .71651 9.2638

XVAR = 6.000 YVAR = 5.000 GROUP=GRUFO3 , SYMPO=C

IPAGE 9 BMDP60 ANALISIS DISCRIMINANTE RECIBEN NACIDOS SALES BILIARES

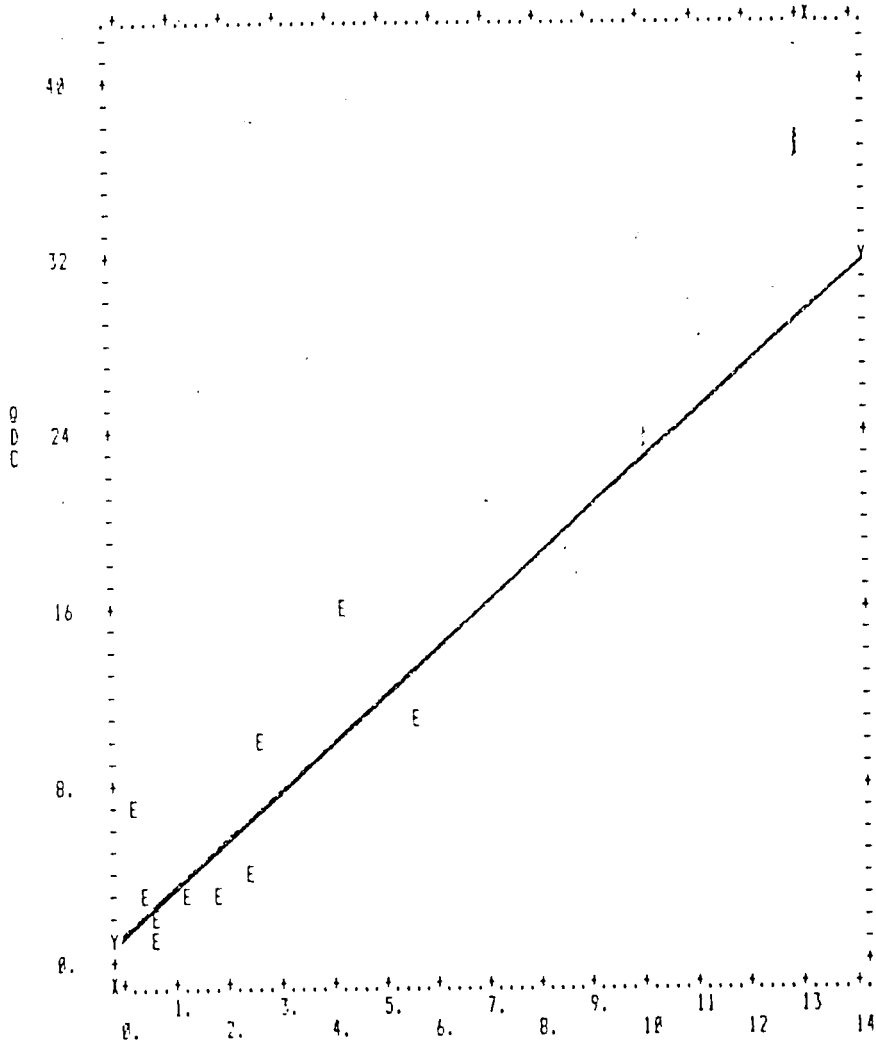


N = 23
 R = .6928
 P(R) 63E-6

	MEAN	ST. DEV.	REGRESSION LINE	FES. MS.
X	2.1957	2.1148	X = .15125*Y + .91615	2.4367
Y	8.4261	9.6479	Y = 3.1685*X + 1.4867	58.715

 YVAR = 6 DC VS. YVAR = 5 DEC EPOUF=GRAF04 , SYMBSL=D

IPAGE 10 BMDP60 ANALISIS DISCRIMINANTE RECEN NACIDOS SALES BILIARES



N = 12
R = .8251
F(R) 22E-5

	MEAN	ST. DEV.	REGRESSION LINE	RES. MS.
X	1.7233	1.7122	$X = .391311Y + .17154$	1.1346
Y	5.1833	4.5748	$Y = 2.15111X + 1.4547$	8.1222

XVAR = 6 DC VS. YVAR = 5 DDC GROUP=GRUPOS SYMBOL=E
IPAGE 11 BMDP60 ANALISIS DISCRIMINANTE RECEN NACIDOS SALES BILIARES

CPU TIME USED 9.759 SECONDS

IPAGE 12 BMDP60

BMDP60 - BIVARIATE (SCATTER) PLOTS
EXECUTED ON 88/12/89 AT 13.28.53.

PROGRAM CONTROL INFORMATION

NO MORE CONTROL LANGUAGE.

PROGRAM TERMINATED

Análisis de Regresión Lineal y Correlación.

Cociente C:DC.

1 PAGE 1 BMDP6D

BMDP6D - BIVARIATE (SCATTER) PLOTS
EMEP STATISTICAL SOFTWARE, INC.
1564 WESTWOOD BLVD. SUITE 202
(312) 475-5700
PROGRAM REVISED OCTOBER 1983
MANUAL REVISED -- 1993
COPYRIGHT (C) 1983 REGENTS OF UNIVERSITY OF CALIFORNIA

TO SEE REMARKS AND A SUMMARY OF NEW FEATURES FOR
THIS PROGRAM, STATE NEWS. IN THE FIRST PARAGRAPH.

THIS VERSION OF BMDP-83 HAS BEEN CONVERTED FOR
CDC MCS AND VMS/BE OPERATING SYSTEMS
BY EMEP PROJECT, VOGELSON COMPUTING CENTER
NORTHWESTERN UNIVERSITY
2129 SHERIDAN ROAD
EVANSTON, ILLINOIS 60201
(312) 492-3881

RELEASE DATE, APRIL 1995
EXECUTED ON 09/12/89 AT 13.26.12.

PROGRAM CONTROL INFORMATION

```
/FROBLEM  
  TITLE = 'ANALISIS DISCRIMINANTE POR EN MARCHOS SACOS FILIARES'.  
/INPUT  
  FILE = 'MATS12'.  
  FORMAT = '(F5.1,IX,F5.1,IX,F5.1,IX,F5.1,IX,F5.1,IX,  
            F5.1,IX,F5.1,IX,F5.1,IX,F5.1,IX,F1.0)'.  
  VARIABLES = 11.  
/VARIABLE  
  NAMES = SPT,TAUSD,GLICO,COLICO,CCC,DC,PAT101,PAT102,PAT103,PAT104,GRUFO.  
  GROUPING = GRUFO.  
  USE=COLICO,DC.  
/GROUP  
  CODES(11) = 1,2,3,4,5.  
  NAMES(11) = GRUFO1,CONT2,GRUFO3,GRUFO4,GRUFO5.  
/PLOT  
  YVAR = COLICO. XVAR = DC.  
  GROUPS = GRUFO1,CONT2,GRUFO3,GRUFO4,GRUFO5.  
  GROUP = GRUFO1.  
  GROUP = CONT2.  
  GROUP = GRUFO3.  
  GROUP = GRUFO4.  
  GROUP = GRUFO5.  
  STATISTICS.
```

END.

PROBLEM TITLE IS
ANALYSIS DISCRIMINANTE REGION MEXICO SALES BILLARES

NUMBER OF VARIABLES TO READ IN. 11
 NUMBER OF VARIABLES ADDED BY TRANSFORMATIONS. 7
 TOTAL NUMBER OF VARIABLES. 18
 NUMBER OF CASES TO READ IN. TO END
 CASE LABELING VARIABLES
 MISSING VALUES CHECKED BEFORE OR AFTER TRANS. NEITHER
 BLANKS ARE. MISSING
 INPUT FILE. UNIT 7 MATRIX
 REWIND INPUT UNIT PRIOR TO READING. DATA. YES
 NUMBER OF WORDS OF DYNAMIC STORAGE. 11952
 NUMBER OF CASES DESCRIBED BY INPUT FORMAT 1

VARIABLES TO BE USED
4 COLICO 6 DC

INPUT FORMAT IS
(FS.1,IX,FS.1,IX,FS.1,IX,FS.1,IX, FS.1,IX,FS.1,IX,FS.1,IX,FS.1,IX,FS.1,
IX,FLD)

MAXIMUM LENGTH DATA RECORD IS 61 CHARACTERS.

INPUT	VARIABLE	RECORD	COLUMNS	FIELD	TYPE	VARIABLE	RECORD	COLUMNS	FIELD	TYPE	
NAME	NO.	BEGIN	END	WIDTH		NAME	NO.	BEGIN	END	WIDTH	
1 EST	1	1	5	5.1	F	7 RAT101	1	37	41	5.1	F
2 TAUSD	1	7	11	5.1	F	8 RAT102	1	43	47	5.1	F
3 COLICO	1	13	17	5.1	F	9 RAT103	1	49	53	5.1	F
4 COLICO	1	19	23	5.1	F	10 RAT104	1	55	59	5.1	F
5 DC	1	25	29	5.1	F	11 GRUPO	1	61	61	1	F
6 DC	1	31	35	5.1	F						

GROUPING VARIABLE 11 GRUPO
 READER BY INPUT FORMAT SUPPLIED 1 RECORDS READ PER CASE.

NUMBER OF CASES READ. 123
 CASES WITH GROUPING VALUES NOT USED. 5
 REMAINING NUMBER OF CASES 123

IFAGE 3 BMDP6D ANALISIS DISCRIMINANTE FACIEN NACIDOS SALES BILIARES
 CODEBOOK

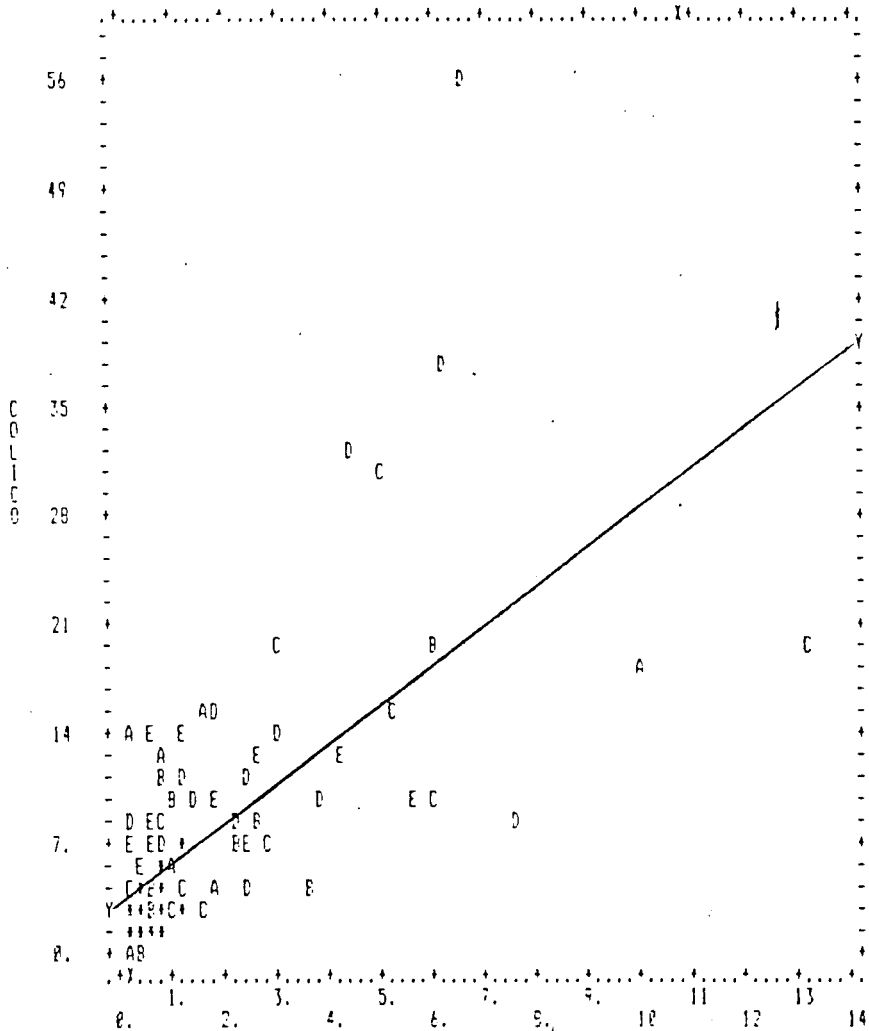
VARIABLE NO. NAME	MINIMUM LIMIT	MAXIMUM LIMIT	MISSING CODE	CATEGORY CODE	CATEGORY NAME	INTERVAL RANGE	
						GREATER THAN	LESS THAN OR = TO
11 GRUPO							
				1.0000	GRUPO1		
				2.0000	CONT2		
				3.0000	GRUPO3		
				4.0000	GRUPO4		
				5.0000	GRUPO5		

IFAGE 4 BMDP6D ANALISIS DISCRIMINANTE FACIEN NACIDOS SALES BILIARES

TABLE OF CONTENTS

HORIZONTAL VARIABLE NO. NAME	VERTICAL VARIABLE NO. NAME	GROUP NAME	PLT SYMBOL	FACE NO.
6 DC	4 COLICO	GRUPO1	A	5
		CONT2	B	5
		GRUPO3	C	5
		GRUPO4	D	5
		GRUPO5	E	5
		GRUPO1	A	6
		CONT2	B	7
		GRUPO3	C	8
		GRUPO4	D	9
		GRUPO5	E	10

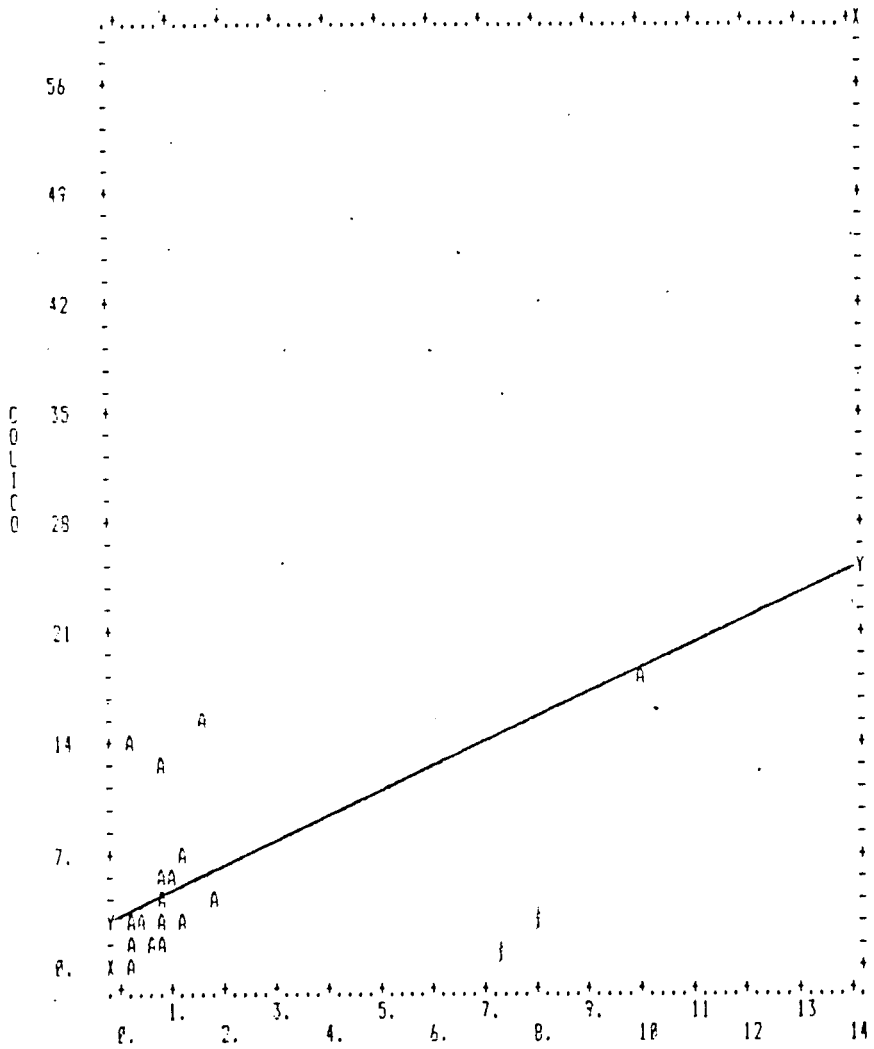
IFRAGE 5 BMDP60 ANALISIS DISCRIMINANTE PECIEN NACIDOS SALES BILIARES



N = 103
R = .6569
P(R) 0.000
MEAN ST. DEV. REGRESSION LINE PES. MS.
X 1.7175 2.2466 X = .17255*Y + .43725 2.5977
Y 7.4194 6.5523 Y = 2.5226*X + 3.1249 41.925

XVAR = 6 DC	VS. YVAR = 4 COLICO	GROUP=GRUF01	SYMBOL=A
XVAR = 6 DC	VS. YVAR = 4 COLICO	GROUP=GRUF02	SYMBOL=B
XVAR = 6 DC	VS. YVAR = 4 COLICO	GROUP=GRUF03	SYMBOL=C
XVAR = 6 DC	VS. YVAR = 4 COLICO	GROUP=GRUF04	SYMBOL=D
XVAR = 6 DC	VS. YVAR = 4 COLICO	GROUP=GRUF05	SYMBOL=E

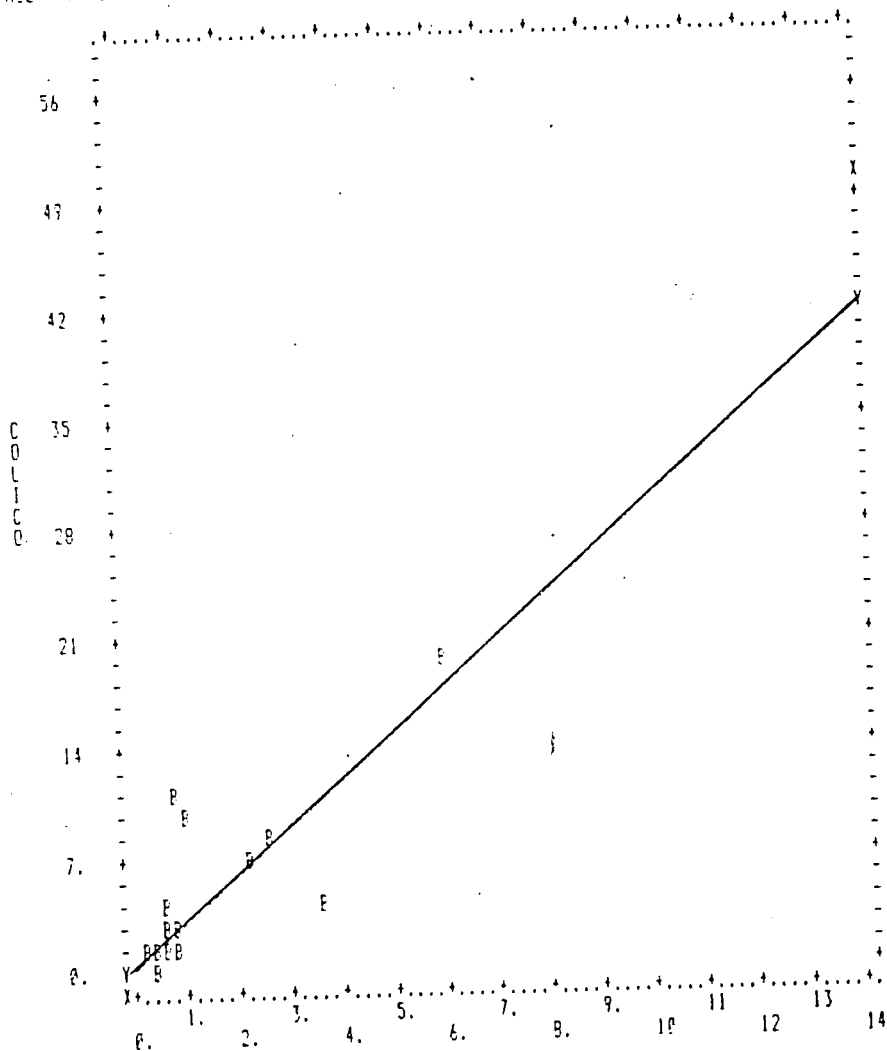
IFAGE 6 EMPFAD ANALISIS DISCRIMINANTE FECIEN NACIROS SALES FILIARES



N = 21
R = .6255
F(R) .2817
MEAN ST. DEV. REGRESSION LINE RES. MS.
X 1.1429 2.8924 X = .23736*Y - .09148 2.9914
Y 5.2882 5.3128 Y = 1.5444*X + 3.4349 18.814

IVAR = 6 DC VS. YVAR = 4 COLICO GROUP=GRUFD1 , SYMPL=A

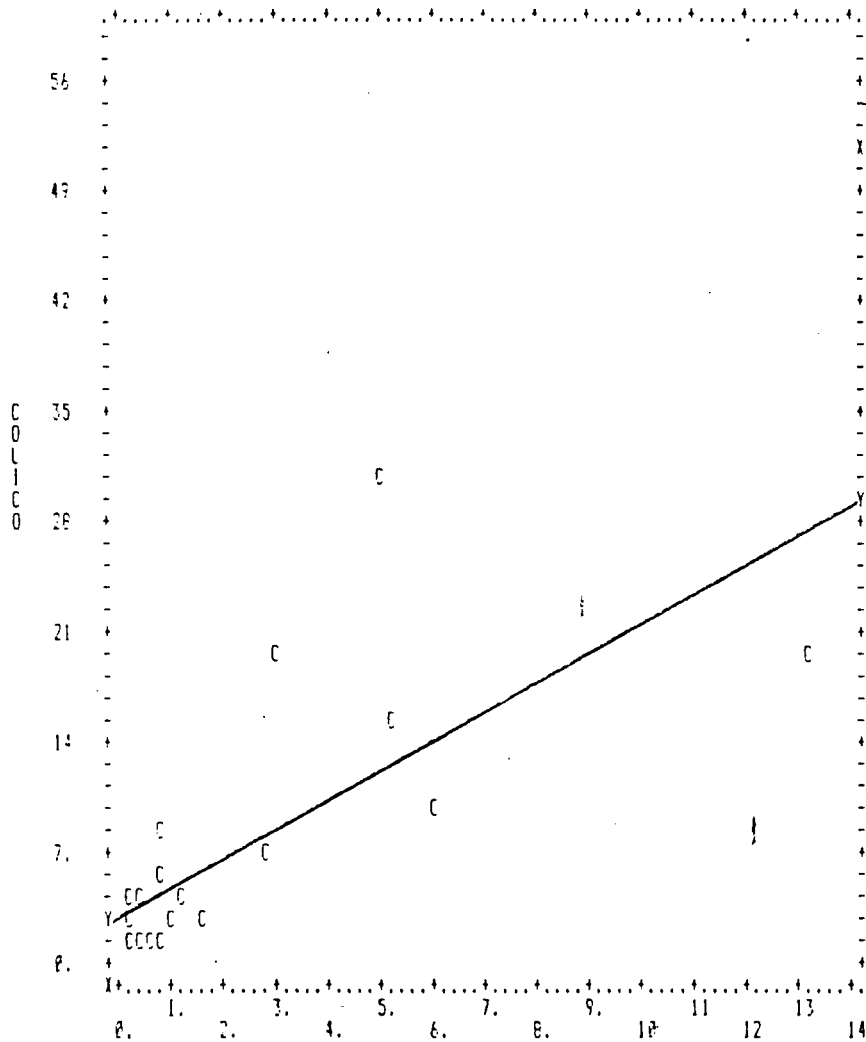
IFPAGE 7 BMDP40 ANALISIS DISCRIMINANTE ECLEN NACIDOS SALES FILIARES



N = 24
 R = .8924
 F(R) 0.000
 MEAN ST. DEV. REGRESSION LINE RES. MS.
 X 1.4792 1.9283 Y = .27575X + .84130 .78127
 Y 5.1553 6.1734 t = 2.857240 .91221 2.1107
 VAR = 6 DC VS. VAR = 4 COLICO GROUP=CONTIG SYMBOL=B



FIGURA 3. PRUEBA ANALISIS DISCRIMINANTE FECTEN HACIENDAS SALES RILIARES

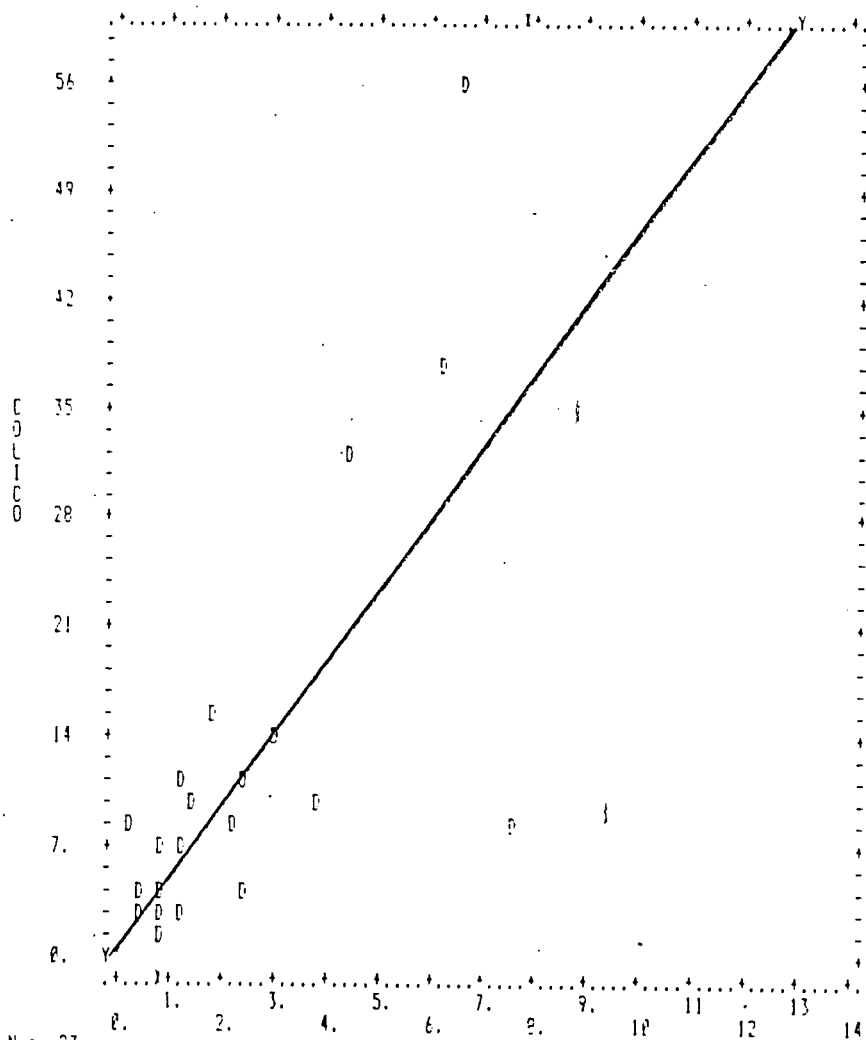


N = 23
 R = .7815
 P(R) ASE-6

	MEAN	ST. DEV.	REGRESSION LINE	RES. MS.
X	2.8843	2.9884	$Y = .26532X + .26531$	4.7521
Y	6.5261	7.9712	$Y = 1.8477X + 2.8227$	32.968

XVAR = 8 EC VS. YVAR = 4 COLICO GRUPO=GRUPO3, SYMDEL=C

IFAGE 9 BMOF60 ANALISIS DISCRIMINANTE RECEN NACIDOS SALES BILIARES

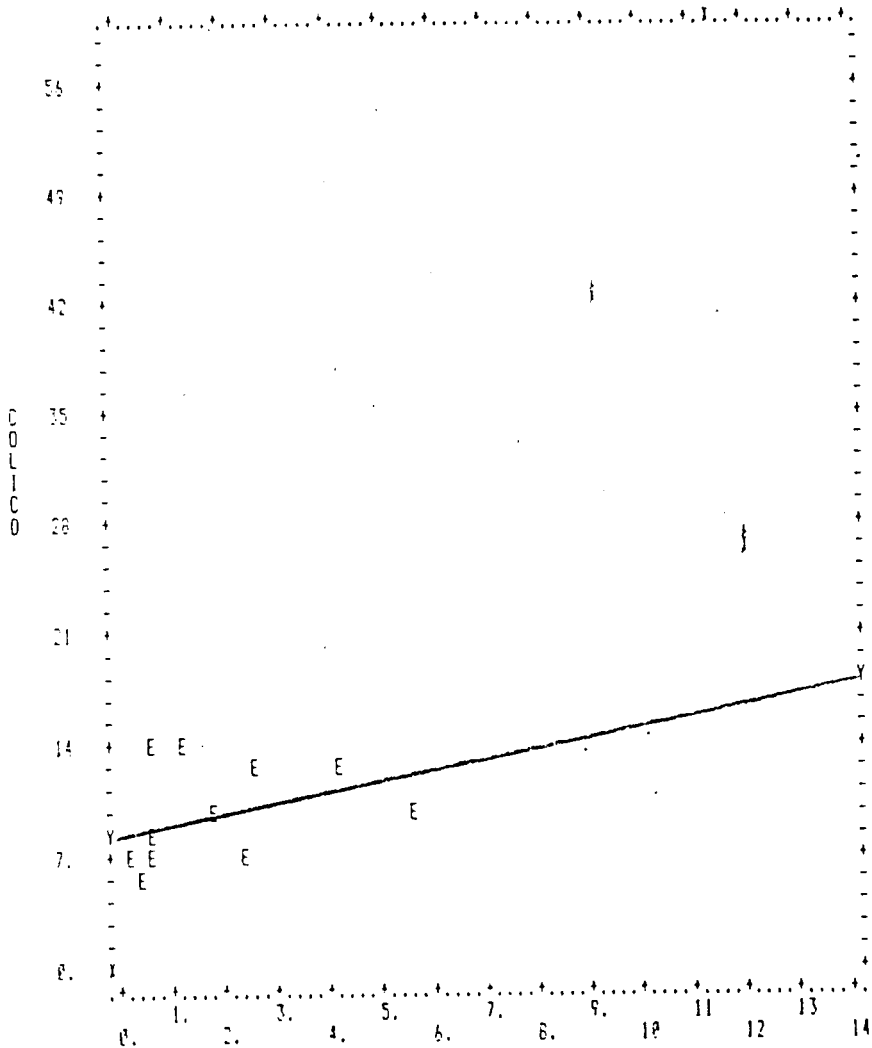


N = 23
 R = .7243
 F(R) 17E-6

	MEAN	ST. DEV.	REGRESSION LINE	RES. MS.
X	2.1957	2.1149	$Y = .11572X + .86368$	2.2273
Y	11.513	13.239	$Y = 4.5343X + 1.5572$	87.287

 XVAR = 6 DC VS. YVAR = 4 COLICO ERGUP=GRUFO4 , SIMEDL=D

IFAGE 11 BMDP6D ANALISIS DISCRIMINANTE RECEN NACIDOS SALES FILIARES



N = 12
 R = .3479
 F(R) = .2285
 DC

	MEAN	ST. DEV.	REGRESSION LINE	FES. MS.
X	1.7333	1.7122	$X = .187574Y - .12376$	2.8143
Y	9.6917	3.1425	$Y = .6338241X + 8.5847$	9.6478

YEAR = 6 DC VS. YEAR = 4 COLICO GROUP=GRUPOS SYMBOL=E
 IFAGE 11 BMDP6D ANALISIS DISCRIMINANTE RECEN NACIDOS SALES FILIARES

CPU TIME USED 9.755 SECONDS

IFAGE 12 BMDP6D

BMDP6D - BIVARIATE (SCATTER) PLOTS
 EXECUTED ON 88/12/29 AT 13.25.53.

PROGRAM CONTROL INFORMATION

NO MORE CONTROL LANGUAGE.

UNIVERSIDAD DE SEVILLA

Reunido el Tribunal integrado por los abajo firmantes
en el día de la fecha, para juzgar la Tesis Doctoral de
D. Hector Escobar Castro

titulada Estudio de los aceros bitarros en
el contenido es decir
acordé otorgarle la calificación de APTO CUM LAUDE

Sevilla, 13 de Septiembre 1989

El Vocal,
[Signature]
El Presidente

El Vocal,
[Signature]
El Secretario
[Signature]

El Vocal,
[Signature]
El Doctorado,
[Signature]