

INSERT PAGES

Blanch-Song Article

1

FIGURES 11-13

THE NOTES ACCOMPANYING FIGURE 11 HAVE BEEN INSERTED DIRECTLY INTO THE ARTICLE

FIGURE 11 (CONTINUED)
 LOGISTIC PROCEDURE EXPLAINING ATTORNEY USAGE, BY DISABILITY
 DEPENDENT VARIABLE = 1 IF APPLIED WITH ATTORNEY, 0 IF NOT

VARIABLES IN THE LOGISTIC REGRESSION	HERNIA $\partial E(Y)/\partial x_k$ (Column 7)	EYE $\partial E(Y)/\partial x_k$ (Column 8)	NERVOUS SYSTEM $\partial E(Y)/\partial x_k$ (Column 9)	GENITO- URINARY $\partial E(Y)/\partial x_k$ (Column 10)	GENERAL APPEARANCE $\partial E(Y)/\partial x_k$ (Column 11)	HEMOR- RHOIDS $\partial E(Y)/\partial x_k$ (Column 12)
Intercept	0.1647**	0.1706**	0.2273**	0.1344**	0.2216**	0.2756**
Agricultural	0.0548**	0.0281	-0.0196	0.0346	0.0265	0.0626**
Manual Labor	0.0860**	0.0235	0.0722	0.0822	0.0595	0.0466
Republican	0.0001	0.0047	-0.0673	-0.0146	-0.0418	-0.1309**
Neutral	-0.1223**	⁽⁶⁾	-0.2046**	⁽¹⁰⁾	⁽¹¹⁾	⁽¹²⁾
Year 1879-1889	0.0328	0.1166**	0.1072**	0.0266	0.0754	0.0261
Year 1890-1907	0.0674	0.0844**	0.0796**	0.0892**	0.0219	-0.0060
Additional Increase	0.1208	-0.1110**	0.0420	-0.0042	0.0088	⁽¹²⁾
Disability	-0.0384	-0.0960**	-0.0415	-0.0106	-0.0347	-0.0502*
Reissue	-0.1602**	-0.1562**	-0.1199**	-0.0011	-0.0805	-0.1073**
Change of Law	-0.0895	-0.1923**	-0.1239	⁽¹⁰⁾	-0.0922	⁽¹²⁾
Re-rate	⁽⁷⁾	⁽⁸⁾	⁽⁹⁾	⁽¹⁰⁾	⁽¹¹⁾	⁽¹²⁾
Type Missing	⁽⁷⁾	⁽⁸⁾	⁽⁹⁾	⁽¹⁰⁾	⁽¹¹⁾	⁽¹²⁾
Number of Applications	1116	1064	673	594	491	464
Dependent Variable Mean	0.8418	0.8543	0.8455	0.8653	0.8310	0.8664
-2 Log L (p-Value)	0.0001	0.0001	0.0118	0.1967	0.7574	0.0029

FIGURE 11 (CONTINUED)
 LOGISTIC PROCEDURE EXPLAINING ATTORNEY USAGE, BY DISABILITY
 DEPENDENT VARIABLE = 1 IF APPLIED WITH ATTORNEY, 0 IF NOT

VARIABLES IN THE LOGISTIC REGRESSION	GASTRO- INTESTINAL $\partial E(Y) / \partial x_k$ (Column 13)	VARICOSE VEINS $\partial E(Y) / \partial x_k$ (Column 14)	ACCIDENT, BLOOD SYSTEM, CARDIOVASCULAR, ENDOCRINE, LIVER, NEOPLASM, SKIN TISSUE, AND SPLEEN $\partial E(Y) / \partial x_k$ (Column 15) ⁽⁵⁾
Intercept	0.0361	0.3551***	0.3036***
Agricultural	0.0690*	0.0042	0.0316
Manual Labor	0.0403	(14)	0.0439
Republican	-0.0076	-0.0914	-0.0716*
Neutral	(13)	(14)	-0.0448
Year 1879-1889	0.2192**	0.0204	-0.0681
Year 1890-1907	0.2122**	0.1072*	-0.0131
Additional Increase	(13)	(14)	0.0294
Disability	-0.1224***	-0.1861***	-0.0849
Reissue	(13)	-0.3661***	-0.0899
Change of Law	(13)	(14)	(16)
Re-rate	(13)	(14)	(16)
Type Missing	(13)	(14)	(16)
Number of Applications	408	350	544
Dependent Variable Mean	0.8407	0.7914	0.8695
-2 Log L (p-Value)	0.0083	0.0001	0.0172

FIGURE 12
 LOGISTIC PROCEDURE EXPLAINING SUCCESS, BY DISABILITY
 DEPENDENT VARIABLE = 1 IF AN INCREASE WAS GRANTED, 0 IF NOT

VARIABLES IN THE LOGISTIC REGRESSION ^{(1),(2)}	INJURY & GSW $\partial E(Y)/\partial x_k$ ⁽³⁾ (Column 1)	MUSCULO-SKELETAL $\partial E(Y)/\partial x_k$ (Column 2)	DIARRHEA $\partial E(Y)/\partial x_k$ (Column 3)	EAR $\partial E(Y)/\partial x_k$ (Column 4)	RESPIRATORY SYSTEM $\partial E(Y)/\partial x_k$ (Column 5)	INFECTIOUS & PARASITIC $\partial E(Y)/\partial x_k$ (Column 6)
Intercept	-0.1416 ^{***}	-0.2042 ^{***}	-0.2959 ^{***}	-0.1257 ^{***}	-0.2579 ^{***}	-0.3214 ^{***}
Agricultural	-0.0059	-0.0120	0.0052	0.0018	0.0083	-0.0018
Manual Labor	-0.0080	-0.0202	-0.0127	-0.0212	-0.0102	0.0492
Republican	0.0575 ^{***}	0.1171 ^{***}	0.0435 ^{***}	0.2153 ^{***}	0.0613 ^{***}	0.1456 ^{***}
Neutral	0.0946 ^{***}	0.1444 ^{***}	0.1525 ^{***}	0.1455 ^{***}	0.0676 ^{***}	-0.0110
Year 1879-1889	0.0768 ^{***}	0.0658 ^{***}	0.1806 ^{***}	0.1207 ^{***}	0.1264 ^{***}	0.0605
Year 1890-1907	0.0127	0.0115	0.1587 ^{***}	0.0056	0.0947 ^{***}	0.0067
Attorney	-0.0771 ^{***}	-0.0829 ^{***}	-0.0443 ^{***}	-0.1609 ^{***}	-0.0455 ^{***}	-0.0282
Number of Applications	7811	5721	3366	1694	1656	1239
Dependent Variable Mean(4)	0.3669	0.3101	0.3559	0.4445	0.3394	0.2785
-2 Log L (p-Value)(5)	0.0001	0.0001	0.0001	0.0001	0.0252	0.0004

FIGURE 12 (CONTINUED)
 LOGISTIC PROCEDURE EXPLAINING SUCCESS, BY DISABILITY
 DEPENDENT VARIABLE = 1 IF AN INCREASE WAS GRANTED, 0 IF NOT

VARIABLES IN THE LOGISTIC REGRESSION	HERNIA $\partial E(Y) / \partial x_k$ (Column 7)	EYE $\partial E(Y) / \partial x_k$ (Column 8)	NERVOUS SYSTEM $\partial E(Y) / \partial x_k$ (Column 9)	GENITO- URINARY $\partial E(Y) / \partial x_k$ (Column 10)	GENERAL APPEARANCE $\partial E(Y) / \partial x_k$ (Column 11)	HEMOR- RHOIDS $\partial E(Y) / \partial x_k$ (Column 12)
Intercept	-0.1749**	-0.1173*	-0.0399	-0.2930**	-0.4403**	-0.3334**
Agricultural	0.0045	-0.0080	-0.0101	0.0274	-0.0231	-0.0643
Manual Labor	-0.0410	-0.0945*	0.0041	0.0515	0.0091	-0.0314
Republican	0.0560	0.1019***	0.0756*	0.0543	0.1217**	0.1144**
Neutral	0.1316	0.2283**	-0.1335	^(b)	0.0407	-0.0260
Year 1879-1889	0.0907	0.0239	-0.0741	0.1288*	0.3184*	0.2011
Year 1890-1907	0.0506	-0.0830*	-0.1163	0.0590	0.2965**	0.1141
Attorney	-0.0682	-0.0742	-0.0395	-0.0548	-0.1094**	-0.0122
Number of Applications	1116	1064	673	594	491	464
Dependent Variable Mean	0.3620	0.3336	0.3804	0.2475	0.3259	0.3233
-2 Log L (p-Value)	0.0599	0.0001	0.2234	0.2007	0.0333	0.1038

FIGURE 12 (CONTINUED)
 LOGISTIC PROCEDURE EXPLAINING SUCCESS, BY DISABILITY
 DEPENDENT VARIABLE = 1 IF AN INCREASE WAS GRANTED, 0 IF NOT

VARIABLES IN THE LOGISTIC REGRESSION	GASTRO- INTESTINAL $\partial E(Y)/\partial x_k$ (Column 13)	VARICOSE VEINS $\partial E(Y)/\partial x_k$ (Column 14)	ACCIDENT, BLOOD SYSTEM, CARDIOVASCULAR, ENDO- CRINE, LIVER, NEOPLASM, SKIN TISSUE, AND SPLEEN $\partial E(Y)/\partial x_k$ (Column 15)
Intercept	-0.4640**	-0.1488	-0.1875
Agricultural	-0.0029	-0.0027	0.0619
Manual Labor	0.0634	-0.1708	0.0849
Republican	0.1562**	0.1566*	0.0407
Neutral	0.1231	0.2187	0.1884
Year 1879-1889	0.4069*	0.0513	0.0233
Year 1890-1907	0.2567	0.0441	-0.0207
Attorney	-0.1592***	-0.2100***	-0.0797
Number of Applications	408	350	544
Dependent Variable Mean	0.2990	0.3486	0.2996
-2 Log L (p-Value)	0.0017	0.0075	0.3458

Notes:

- 1) The omitted categories are professional occupation, democratic party majority, and year 1862 to 1878.
- 2) The symbol "***" indicates a statistical significance of 1%, the symbol "**" indicates a statistical significance of 5%, and the symbol "*" indicates a statistical significance of 10%.
- 3) See Methodological Appendix for an explanation of the symbol " $\partial E(Y)/\partial x_k$."
- 4) Almost all the known ruling decisions were either increases (49.3) or rejections (49.4%). There were very few decreases (1.3%).
- 5) See Methodological Appendix for an explanation of the symbol "-2log L (p-Value)."
- 6) There were only four applications under neutral political affiliation. Including this dummy variable in the logistic procedure would cause a convergence problem in the maximum likelihood estimation.

FIGURE 13
 OLS REGRESSION WITH ROBUST STANDARD ERRORS EXPLAINING PENSION AWARD FOR SUCCESSFUL APPLICATIONS, BY DISABILITY
 DEPENDENT VARIABLE = PENSION DOLLARS GRANTED PER MONTH
 CORRECTED FOR TIME SERIES CORRELATIONS BETWEEN ADJACENT APPLICATIONS FOR THE SAME RECRUIT

VARIABLES IN THE OLS REGRESSION ^{(1),(2)}	INJURY & GSW (Column 1)	MUSCULO- SKELETAL (Column 2)	DIARRHEA (Column 3)	EAR (Column 4)	RESPIRATORY SYSTEM (Column 5)	INFECTIOUS & PARASITIC (Column 6)
Intercept	9.3334***	7.5150***	6.0087***	6.9977***	7.1572***	5.7186***
Agricultural	0.2584	-0.6313**	-0.0828	0.5935	-0.8048	-0.0875
Manual Labor	0.9111	-0.9950***	-0.0533	1.0600	-0.1191	0.9701
Republican	1.3476***	0.8648***	0.5708	1.5468***	1.4693***	2.4236***
Neutral	2.6585***	-0.0897	-0.0050	-1.1174	-0.1749	0.3385
Year 1879-1889	2.4947***	1.3603**	2.1814***	2.8031***	1.1064**	2.9267***
Year 1890-1907	5.7355***	3.7081***	6.5501***	2.9407***	3.7664***	5.6898***
Attorney	-4.5862***	-1.4691***	-1.4926***	-1.3682***	-0.0916	-2.2846
Number of Applications	4788	3455	2162	1175	1081	717
Dependent Variable Mean	\$9.53	\$9.33	\$8.78	\$10.30	\$9.72	\$9.29
Adjusted R Square	0.1239	0.0678	0.1287	0.0368	0.0637	0.0634

FIGURE 13 (CONTINUED)
 OLS REGRESSION WITH ROBUST STANDARD ERRORS EXPLAINING PENSION AWARD FOR SUCCESSFUL APPLICATIONS, BY DISABILITY
 DEPENDENT VARIABLE = PENSION DOLLARS GRANTED PER MONTH
 CORRECTED FOR TIME SERIES CORRELATIONS BETWEEN ADJACENT APPLICATIONS FOR THE SAME RECRUIT

VARIABLES IN THE LOGISTIC REGRESSION	HERNIA (Column 7)	EYE (Column 8)	NERVOUS SYSTEM (Column 9)	GENITO- URINARY (Column 10)	GENERAL APPEARANCE (Column 11)	HEMOR- RHODS (Column 12)
Intercept	5.6543***	14.8870***	15.9554***	4.0910***	6.5418***	6.3205***
Agricultural	0.2790	0.8611	-1.0731	0.3430	0.1120	0.2401
Manual Labor	0.1927	-0.4063	-2.0367	-0.6462	-0.5526	-0.5164
Republican	0.8021**	2.0003	-0.1220	0.4254	-0.1346	1.3210**
Neutral	-0.3833	0.6516	1.2887	-3.1951***	-2.2245	0.7907
Year 1879-1889	2.1388***	-2.2201	-3.8169**	2.7611***	3.0749***	1.1631
Year 1890-1907	4.2748***	-1.4560	-2.5944	5.3630***	5.2068***	3.9331***
Attorney	-0.4843	-4.7994*	-1.2056	0.2568	-1.9561	-1.3198
Number of Applications	734	646	429	319	302	311
Dependent Variable Mean	\$9.07	\$11.19	\$11.49	\$8.67	\$9.19	\$8.89
Adjusted R Square	0.1662	0.0276	0.0106	0.1276	0.0568	0.1070

FIGURE 13 (CONTINUED)
 OLS REGRESSION WITH ROBUST STANDARD ERRORS EXPLAINING
 PENSION AWARD FOR SUCCESSFUL APPLICATIONS, BY DISABILITY
 DEPENDENT VARIABLE = PENSION DOLLARS GRANTED PER MONTH
 CORRECTED FOR TIME SERIES CORRELATIONS BETWEEN ADJACENT APPLICATIONS FOR THE SAME RECRUIT

VARIABLES IN THE OLS REGRESSION	GASTRO- INTESTINAL	VARICOSE VEINS	ACCIDENT, BLOOD SYSTEM, CARDIOVASCULAR, ENDOCRINE, LIVER, NEOPLASM, SKIN TISSUE, AND SPLEEN
	(Column 13)	(Column 14)	(Column 15)
Intercept	7.4447***	7.0755***	7.9577***
Agricultural	-0.6976	1.8093	-0.1243
Manual Labor	-0.4140	-1.4118	-1.4076
Republican	1.7338**	0.8873	0.0138
Neutral	-1.0502	-2.5225	-2.0073*
Year 1879-1889	0.9084	2.6459***	1.9201*
Year 1890-1907	3.0994*	4.2809***	4.9173***
Attorney	-1.7008	-2.5559	-1.5396
Number of Applications	228	212	302
Dependent Variable Mean	\$9.35	\$9.73	\$10.04
Adjusted R Square	0.0236	0.0957	0.0312

Notes:

- 1) The omitted categories are professional occupation, democratic party majority, and year 1862 to 1878.
- 2) The symbol "***" indicates a statistical significance of 1%, the symbol "**" indicates a statistical significance of 5%, and the symbol "*" indicates a statistical significance of 10%.