

# Interactive Medical Word Sense Disambiguation through Informed Learning

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## Appendix

**Table A1.** Interactive learning results for 198 ambiguous words in the MSH corpus.

Notes:

- Type “A” represents an Abbreviation; type “T” represents a Term; type “AT” represents an Abbreviation and Term.
- #S: number of senses.
- #inst: number of instances.
- RS: Random Sampling.
- AL: Active Learning.
- RR: ReQ-ReC expert.
- IL: Informed Learning.
- “IL > AL”: the ALC score of Informed Learning is greater than that of Active Learning. Equals 1 if true; 0 otherwise.
- “IL > RR”: the ALC score of Informed Learning is greater than that of ReQ-ReC expert. Equals 1 if true; 0 otherwise.

ID	Word	Type	#S	#inst	#inst in top 5 senses					major sense ratio	ALC scores				IL > AL	IL > RR
					S1	S2	S3	S4	S5		RS	AL	RR	IL		
1	AA	A	2	198	99	99	0	0	0	0.5000	0.8965	0.9385	0.9619	0.9784	1	1
2	ADA	A	2	198	99	99	0	0	0	0.5000	0.8335	0.8883	0.9416	0.9347	1	0
3	ADH	A	2	198	99	99	0	0	0	0.5000	0.9002	0.9512	0.9649	0.9771	1	1
4	ADP	A	2	149	99	50	0	0	0	0.6644	0.8971	0.9166	0.8689	0.9102	0	1
5	Adrenal	T	2	198	99	99	0	0	0	0.5000	0.6467	0.7324	0.7653	0.7608	1	0
6	Ala	A	3	297	99	99	99	0	0	0.3333	0.7698	0.8337	0.8812	0.9149	1	1
7	ALS	A	2	198	99	99	0	0	0	0.5000	0.9152	0.9559	0.9711	0.9785	1	1
8	ANA	A	2	198	99	99	0	0	0	0.5000	0.8769	0.8982	0.9325	0.9430	1	1
9	Arteriovenous Anastomoses	T	2	129	99	30	0	0	0	0.7674	0.8267	0.8724	0.8881	0.9203	1	1
10	Astragalus	T	2	198	99	99	0	0	0	0.5000	0.9259	0.9464	0.9441	0.9606	1	1
11	B-Cell Leukemia	AT	2	158	92	66	0	0	0	0.5823	0.6888	0.7288	0.7283	0.7647	1	1
12	BAT	T	2	198	99	99	0	0	0	0.5000	0.9268	0.9639	0.9705	0.9836	1	1
13	BLM	A	2	198	99	99	0	0	0	0.5000	0.9422	0.9688	0.9698	0.9903	1	1
14	Borrelia	T	2	198	99	99	0	0	0	0.5000	0.6022	0.6745	0.7338	0.7315	1	0
15	BPD	A	2	198	99	99	0	0	0	0.5000	0.9389	0.9739	0.9804	0.9928	1	1
16	BR	A	2	170	99	71	0	0	0	0.5824	0.7894	0.8860	0.9041	0.9367	1	1
17	Brucella abortus	T	2	180	99	81	0	0	0	0.5500	0.8075	0.8462	0.8231	0.8697	1	1
18	BSA	A	2	198	99	99	0	0	0	0.5000	0.8930	0.9705	0.9787	0.9971	1	1
19	BSE	A	2	198	99	99	0	0	0	0.5000	0.9465	0.9821	0.9865	0.9970	1	1
20	Ca	A	4	396	99	99	99	99	0	0.2500	0.5396	0.5952	0.6158	0.6619	1	1
21	CAD	A	2	198	99	99	0	0	0	0.5000	0.9122	0.9504	0.9575	0.9750	1	1

22	Callus	T	2	150	99	51	0	0	0	0.6600	0.7839	0.8732	0.8874	0.9167	1	1
23	CAM	A	2	198	99	99	0	0	0	0.5000	0.8142	0.9372	0.9326	0.9556	1	1
24	Cardiac pacemaker	T	2	198	99	99	0	0	0	0.5000	0.8327	0.8776	0.9065	0.9141	1	1
25	CCD	A	2	141	99	42	0	0	0	0.7021	0.9124	0.9770	0.9818	0.9979	1	1
26	CCI4	A	2	198	99	99	0	0	0	0.5000	0.8857	0.9593	0.9675	0.9877	1	1
27	CDA	A	2	198	99	99	0	0	0	0.5000	0.9298	0.9736	0.9796	0.9970	1	1
28	CDR	A	2	147	99	48	0	0	0	0.6735	0.8605	0.9521	0.9619	0.9824	1	1
29	Cell	AT	2	198	99	99	0	0	0	0.5000	0.8340	0.8809	0.9208	0.9323	1	1
30	Cement	T	2	185	99	86	0	0	0	0.5351	0.7523	0.7838	0.7951	0.8414	1	1
31	CH	A	2	148	91	57	0	0	0	0.6149	0.7719	0.8460	0.8592	0.8925	1	1
32	Cholera	T	2	198	99	99	0	0	0	0.5000	0.8161	0.8319	0.8612	0.8771	1	1
33	CI	A	2	183	99	84	0	0	0	0.5410	0.8175	0.8824	0.9199	0.9307	1	1
34	Cilia	T	2	156	99	57	0	0	0	0.6346	0.8446	0.8314	0.9100	0.9396	1	1
35	CIS	A	2	153	99	54	0	0	0	0.6471	0.8905	0.9621	0.9652	0.9871	1	1
36	CNS	A	2	198	99	99	0	0	0	0.5000	0.9197	0.9480	0.9572	0.9679	1	1
37	Coffee	T	2	198	99	99	0	0	0	0.5000	0.7110	0.6634	0.7593	0.7550	1	0
38	Cold	AT	3	260	99	99	62	0	0	0.3808	0.6538	0.7357	0.7800	0.8334	1	1
39	Compliance	T	2	198	99	99	0	0	0	0.5000	0.7227	0.7701	0.8370	0.8251	1	0
40	Cortex	T	2	198	99	99	0	0	0	0.5000	0.8728	0.9392	0.9515	0.9697	1	1
41	Cortical	T	3	297	99	99	99	0	0	0.3333	0.6587	0.7197	0.7830	0.8578	1	1
42	CP	A	3	297	99	99	99	0	0	0.3333	0.8494	0.9381	0.9468	0.9918	1	1
43	Crack	T	2	163	99	64	0	0	0	0.6074	0.8740	0.8970	0.9368	0.9396	1	1
44	CRF	A	2	198	99	99	0	0	0	0.5000	0.9414	0.9696	0.9774	0.9957	1	1
45	cRNA	A	2	198	99	99	0	0	0	0.5000	0.8803	0.8691	0.9576	0.9668	1	1
46	Crown	T	2	198	99	99	0	0	0	0.5000	0.6755	0.7545	0.8236	0.8119	1	0
47	CTX	A	2	183	99	84	0	0	0	0.5410	0.9497	0.9751	0.9769	0.9947	1	1
48	DAT	A	2	198	99	99	0	0	0	0.5000	0.8914	0.9550	0.9717	0.9931	1	1
49	DBA	A	2	183	99	84	0	0	0	0.5410	0.9319	0.9685	0.9721	0.9888	1	1
50	dC	A	2	198	99	99	0	0	0	0.5000	0.8508	0.9418	0.9454	0.9641	1	1
51	DDD	A	2	198	99	99	0	0	0	0.5000	0.8476	0.8839	0.8963	0.9129	1	1
52	DDS	A	3	220	99	99	22	0	0	0.4500	0.8252	0.8563	0.8935	0.9479	1	1
53	DE	A	2	126	99	27	0	0	0	0.7857	0.7911	0.8440	0.8143	0.8666	1	1
54	DI	A	2	198	99	99	0	0	0	0.5000	0.9459	0.9719	0.9740	0.9946	1	1
55	Digestive	T	2	198	99	99	0	0	0	0.5000	0.6733	0.7108	0.7696	0.7802	1	1
56	DON	A	2	126	99	27	0	0	0	0.7857	0.8682	0.9263	0.9383	0.9620	1	1
57	drinking	T	2	198	99	99	0	0	0	0.5000	0.7855	0.8773	0.8872	0.9155	1	1
58	eCG	A	2	198	99	99	0	0	0	0.5000	0.8990	0.9203	0.9507	0.9648	1	1
59	Eels	AT	2	130	99	31	0	0	0	0.7615	0.8834	0.9354	0.9276	0.9600	1	1
60	EGG	T	2	198	99	99	0	0	0	0.5000	0.6933	0.7275	0.7827	0.7768	1	0
61	EM	A	2	129	99	30	0	0	0	0.7674	0.8544	0.9639	0.9592	0.9877	1	1
62	EMS	A	2	198	99	99	0	0	0	0.5000	0.8615	0.8666	0.9372	0.9370	1	0
63	Epi	A	2	198	99	99	0	0	0	0.5000	0.8569	0.9214	0.9366	0.9725	1	1
64	ERP	A	2	198	99	99	0	0	0	0.5000	0.9388	0.9827	0.9867	0.9972	1	1
65	ERUPTION	T	2	197	99	98	0	0	0	0.5025	0.8952	0.9340	0.9504	0.9657	1	1
66	Erythrocytes	T	2	198	99	99	0	0	0	0.5000	0.6470	0.7023	0.7277	0.7292	1	1
67	Exercises	T	2	198	99	99	0	0	0	0.5000	0.6745	0.7064	0.7613	0.7742	1	1
68	FA	A	2	198	99	99	0	0	0	0.5000	0.8963	0.9704	0.9759	0.9969	1	1
69	Familial Adenomatous Polyposis	T	2	198	99	99	0	0	0	0.5000	0.7379	0.7624	0.8062	0.8045	1	0
70	FAS	A	2	198	99	99	0	0	0	0.5000	0.9421	0.9824	0.9850	0.9999	1	1
71	Fe	A	2	198	99	99	0	0	0	0.5000	0.8091	0.8625	0.8899	0.9089	1	1
72	Fish	AT	2	198	99	99	0	0	0	0.5000	0.8261	0.8943	0.9178	0.9316	1	1

73	Follicle	T	2	198	99	99	0	0	0	0.5000	0.8198	0.9057	0.9168	0.9531	1	1
74	Follicles	T	2	198	99	99	0	0	0	0.5000	0.8134	0.9236	0.9402	0.9634	1	1
75	FTC	A	2	198	99	99	0	0	0	0.5000	0.8557	0.9117	0.9482	0.9541	1	1
76	GAG	A	2	198	99	99	0	0	0	0.5000	0.9036	0.9507	0.9541	0.9815	1	1
77	Gamma-Interferon	T	2	198	99	99	0	0	0	0.5000	0.6857	0.7410	0.7775	0.7696	1	0
78	Ganglion	T	2	198	99	99	0	0	0	0.5000	0.8603	0.8679	0.8987	0.9088	1	1
79	Gas	T	2	198	99	99	0	0	0	0.5000	0.8199	0.8299	0.8892	0.9185	1	1
80	Glycoside	T	2	198	99	99	0	0	0	0.5000	0.8020	0.8929	0.8913	0.9409	1	1
81	Haemophilus ducreyi	T	2	153	99	54	0	0	0	0.6471	0.7798	0.8822	0.8803	0.8974	1	1
82	HCl	A	2	198	99	99	0	0	0	0.5000	0.9458	0.9779	0.9800	0.9943	1	1
83	Heregulin	T	2	173	99	74	0	0	0	0.5723	0.6726	0.7382	0.7880	0.7935	1	1
84	HGF	A	2	192	99	93	0	0	0	0.5156	0.7301	0.8180	0.8620	0.8727	1	1
85	HHV 8	A	2	176	99	77	0	0	0	0.5625	0.7612	0.8006	0.8015	0.8266	1	1
86	Hip	T	2	165	99	66	0	0	0	0.6000	0.7261	0.7694	0.7738	0.7981	1	1
87	HIV	A	2	198	99	99	0	0	0	0.5000	0.6927	0.7115	0.7801	0.7785	1	0
88	HPS	A	2	178	99	79	0	0	0	0.5562	0.9556	0.9808	0.9869	0.9987	1	1
89	HR	A	2	109	99	10	0	0	0	0.9083	0.9234	0.9407	0.9237	0.9455	1	1
90	Hybridization	T	2	198	99	99	0	0	0	0.5000	0.7879	0.8605	0.8744	0.8893	1	1
91	IA	A	2	134	99	35	0	0	0	0.7388	0.8322	0.9394	0.9388	0.9725	1	1
92	Ice	AT	3	235	99	99	37	0	0	0.4213	0.8193	0.8552	0.8882	0.9192	1	1
93	INDO	A	2	122	99	23	0	0	0	0.8115	0.8479	0.9536	0.9519	0.9646	1	1
94	Ion	T	2	198	99	99	0	0	0	0.5000	0.7443	0.7903	0.8290	0.8488	1	1
95	IP	A	2	196	99	97	0	0	0	0.5051	0.9259	0.9715	0.9793	0.9941	1	1
96	Iris	T	2	161	99	62	0	0	0	0.6149	0.8202	0.8748	0.8946	0.9036	1	1
97	ITP	A	2	198	99	99	0	0	0	0.5000	0.8694	0.9562	0.9679	0.9868	1	1
98	JP	A	2	192	99	93	0	0	0	0.5156	0.9216	0.9644	0.9541	0.9834	1	1
99	LABOR	T	2	198	99	99	0	0	0	0.5000	0.7472	0.7902	0.8427	0.8495	1	1
100	Lactation	T	2	198	99	99	0	0	0	0.5000	0.7977	0.8406	0.8690	0.8873	1	1
101	Language	T	2	198	99	99	0	0	0	0.5000	0.7540	0.8186	0.8870	0.9014	1	1
102	Laryngeal	T	2	198	99	99	0	0	0	0.5000	0.6726	0.7485	0.7869	0.7828	1	0
103	Lawsonia	T	2	115	99	16	0	0	0	0.8609	0.8670	0.9379	0.9327	0.9606	1	1
104	Leishmaniasis	T	2	161	99	62	0	0	0	0.6149	0.8008	0.8388	0.8723	0.8908	1	1
105	lens	T	3	297	99	99	99	0	0	0.3333	0.7036	0.7406	0.8007	0.7972	1	0
106	Lupus	T	3	297	99	99	99	0	0	0.3333	0.6730	0.6730	0.7804	0.7269	1	0
107	lymphogranulomatosis	T	2	119	99	20	0	0	0	0.8319	0.8508	0.8832	0.8782	0.9073	1	1
108	MAF	A	2	120	99	21	0	0	0	0.8250	0.8855	0.9641	0.9618	0.9809	1	1
109	Malaria	T	2	198	99	99	0	0	0	0.5000	0.7610	0.7971	0.8565	0.8457	1	0
110	MBP	A	2	143	99	44	0	0	0	0.6923	0.7505	0.9089	0.9132	0.9444	1	1
111	MCC	A	2	131	99	32	0	0	0	0.7557	0.8668	0.9883	0.9863	0.9987	1	1
112	Medullary	T	2	198	99	99	0	0	0	0.5000	0.7700	0.8250	0.8689	0.9029	1	1
113	MHC	A	2	198	99	99	0	0	0	0.5000	0.8971	0.9563	0.9630	0.9849	1	1
114	Milk	T	2	198	99	99	0	0	0	0.5000	0.7486	0.8117	0.8192	0.8394	1	1
115	Moles	T	2	174	99	75	0	0	0	0.5690	0.7859	0.8247	0.8841	0.8863	1	1
116	MRS	A	2	166	99	67	0	0	0	0.5964	0.9511	0.9781	0.9792	0.9947	1	1
117	Murine sarcoma virus	T	2	180	99	81	0	0	0	0.5500	0.6753	0.7140	0.7384	0.7330	1	0
118	NBS	A	2	146	99	47	0	0	0	0.6781	0.9000	0.9783	0.9786	0.9962	1	1
119	NEUROFIBROMATOSIS	T	2	198	99	99	0	0	0	0.5000	0.7170	0.7519	0.7912	0.8068	1	1
120	NM	A	2	122	84	38	0	0	0	0.6885	0.8112	0.8596	0.9208	0.9233	1	1
121	NPC	A	2	163	99	64	0	0	0	0.6074	0.9627	0.9877	0.9897	0.9999	1	1

122	Nurse	T	2	198	99	99	0	0	0	0.5000	0.6490	0.7057	0.7733	0.7770	1	1
123	Nursing	T	2	198	99	99	0	0	0	0.5000	0.7276	0.7085	0.8124	0.7620	1	0
124	OCD	A	2	198	99	99	0	0	0	0.5000	0.8744	0.9683	0.9707	0.9963	1	1
125	OH	A	2	198	99	99	0	0	0	0.5000	0.8200	0.9095	0.9378	0.9586	1	1
126	Orf	AT	2	198	99	99	0	0	0	0.5000	0.8706	0.8529	0.9343	0.9427	1	1
127	ORI	A	2	123	99	24	0	0	0	0.8049	0.8677	0.9377	0.9580	0.9858	1	1
128	PAF	A	2	115	99	16	0	0	0	0.8609	0.9021	0.9853	0.9887	0.9935	1	1
129	Parotitis	T	2	198	99	99	0	0	0	0.5000	0.6952	0.7630	0.8079	0.8393	1	1
130	PCA	A	5	491	99	99	99	99	95	0.2016	0.7591	0.8475	0.8942	0.9685	1	1
131	PCB	A	2	127	99	28	0	0	0	0.7795	0.8675	0.9570	0.9585	0.9797	1	1
132	PCD	A	2	198	99	99	0	0	0	0.5000	0.9266	0.9758	0.9786	0.9946	1	1
133	PCP	A	3	297	99	99	99	0	0	0.3333	0.8599	0.9081	0.9388	0.9781	1	1
134	PEP	A	2	198	99	99	0	0	0	0.5000	0.8578	0.9492	0.9616	0.9787	1	1
135	PHA	A	2	110	99	11	0	0	0	0.9000	0.9077	0.9537	0.9423	0.9671	1	1
136	Pharmaceutical	T	2	198	99	99	0	0	0	0.5000	0.7823	0.8408	0.8791	0.8874	1	1
137	Phosphorus	T	2	198	99	99	0	0	0	0.5000	0.6658	0.7387	0.7942	0.8032	1	1
138	Phosphorylase	T	2	166	99	67	0	0	0	0.5964	0.7338	0.8082	0.8094	0.8110	1	1
139	pI	A	2	156	99	57	0	0	0	0.6346	0.8934	0.9620	0.9744	0.9862	1	1
140	Plague	T	2	168	99	69	0	0	0	0.5893	0.7600	0.8260	0.8421	0.8568	1	1
141	Plaque	T	2	197	99	98	0	0	0	0.5025	0.8845	0.9480	0.9646	0.9799	1	1
142	Platelet	T	2	198	99	99	0	0	0	0.5000	0.6823	0.7262	0.7813	0.8058	1	1
143	Pleuropneumonia	T	2	198	99	99	0	0	0	0.5000	0.8113	0.8626	0.8821	0.9014	1	1
144	Pneumocystis	T	2	198	99	99	0	0	0	0.5000	0.7095	0.8060	0.8233	0.8141	1	0
145	POL	A	2	162	99	63	0	0	0	0.6111	0.8479	0.9433	0.9585	0.9680	1	1
146	Polymyalgia Rheumatica	T	2	198	99	99	0	0	0	0.5000	0.7737	0.8482	0.8603	0.8874	1	1
147	posterior pituitary	T	2	194	99	95	0	0	0	0.5103	0.7746	0.7819	0.8278	0.8462	1	1
148	Potassium	T	2	198	99	99	0	0	0	0.5000	0.7268	0.7600	0.8043	0.8140	1	1
149	PR	A	2	165	99	66	0	0	0	0.6000	0.8230	0.9445	0.9546	0.9753	1	1
150	Projection	T	2	198	99	99	0	0	0	0.5000	0.8067	0.8747	0.8816	0.9249	1	1
151	PVC	A	2	198	99	99	0	0	0	0.5000	0.8983	0.9591	0.9656	0.9886	1	1
152	RA	A	3	297	99	99	99	0	0	0.3333	0.8622	0.9066	0.9310	0.9753	1	1
153	Radiation	T	2	198	99	99	0	0	0	0.5000	0.6912	0.7148	0.8056	0.7878	1	0
154	RB	A	2	198	99	99	0	0	0	0.5000	0.8814	0.9388	0.9550	0.9709	1	1
155	RBC	A	2	198	99	99	0	0	0	0.5000	0.6938	0.7217	0.7788	0.7892	1	1
156	rDNA	A	2	198	99	99	0	0	0	0.5000	0.7227	0.7524	0.8241	0.8297	1	1
157	Respiration	T	2	198	99	99	0	0	0	0.5000	0.7297	0.7980	0.8576	0.8672	1	1
158	Retinal	T	2	198	99	99	0	0	0	0.5000	0.7211	0.7494	0.8222	0.8274	1	1
159	Root	T	2	198	99	99	0	0	0	0.5000	0.8688	0.8758	0.8966	0.9277	1	1
160	RSV	A	2	134	99	35	0	0	0	0.7388	0.8528	0.9446	0.9470	0.9703	1	1
161	SARS-associated coronavirus	T	2	118	71	47	0	0	0	0.6017	0.8301	0.8727	0.8906	0.8865	1	0
162	SARS	A	2	198	99	99	0	0	0	0.5000	0.8622	0.8838	0.9280	0.9314	1	1
163	SCD	A	2	198	99	99	0	0	0	0.5000	0.8977	0.9576	0.9677	0.9946	1	1
164	Schistosoma mansoni	T	2	198	99	99	0	0	0	0.5000	0.7351	0.7491	0.8037	0.7978	1	0
165	Semen	T	2	186	99	87	0	0	0	0.5323	0.7584	0.8414	0.8649	0.8816	1	1
166	sex factor	T	2	131	96	35	0	0	0	0.7328	0.7872	0.8621	0.9003	0.9115	1	1
167	SLS	A	2	164	99	65	0	0	0	0.6037	0.9353	0.9880	0.9865	1.0000	1	1
168	Sodium	T	2	197	99	98	0	0	0	0.5025	0.7279	0.7597	0.7756	0.7810	1	1
169	SPR	A	2	198	99	99	0	0	0	0.5000	0.9490	0.9777	0.9821	0.9984	1	1

170	SS	A	2	144	98	46	0	0	0	0.6806	0.9184	0.9808	0.9779	0.9990	1	1
171	Staph	T	2	198	99	99	0	0	0	0.5000	0.7318	0.7142	0.7804	0.7906	1	1
172	STEM	AT	2	198	99	99	0	0	0	0.5000	0.9048	0.9337	0.9448	0.9657	1	1
173	Sterilization	T	2	198	99	99	0	0	0	0.5000	0.7234	0.7703	0.8188	0.8441	1	1
174	Strep	T	2	197	99	98	0	0	0	0.5025	0.7526	0.7887	0.8114	0.8080	1	0
175	Synapsis	T	2	134	99	35	0	0	0	0.7388	0.8501	0.8972	0.9022	0.9142	1	1
176	TAT	A	3	297	99	99	99	0	0	0.3333	0.6961	0.7548	0.7840	0.7848	1	1
177	Tax	AT	2	180	99	81	0	0	0	0.5500	0.8749	0.8856	0.9295	0.9317	1	1
178	TEM	A	2	198	99	99	0	0	0	0.5000	0.8499	0.8857	0.9357	0.9777	1	1
179	THYMUS	T	3	297	99	99	99	0	0	0.3333	0.7493	0.7525	0.8136	0.8252	1	1
180	TLC	A	2	198	99	99	0	0	0	0.5000	0.9157	0.9650	0.9764	0.9885	1	1
181	TMJ	A	2	198	99	99	0	0	0	0.5000	0.6671	0.6738	0.7507	0.7359	1	0
182	TMP	A	2	150	99	51	0	0	0	0.6600	0.7815	0.8864	0.9057	0.9308	1	1
183	TNC	A	2	167	99	68	0	0	0	0.5928	0.9324	0.9730	0.9752	0.9966	1	1
184	TNT	A	2	198	99	99	0	0	0	0.5000	0.9233	0.9718	0.9677	0.9939	1	1
185	Tolerance	T	2	198	99	99	0	0	0	0.5000	0.7822	0.8322	0.8491	0.8758	1	1
186	tomography	T	2	198	99	99	0	0	0	0.5000	0.7762	0.7738	0.8205	0.8380	1	1
187	Torula	T	2	122	88	34	0	0	0	0.7213	0.7997	0.8394	0.8457	0.8487	1	1
188	TPA	A	2	198	99	99	0	0	0	0.5000	0.8937	0.9372	0.9581	0.9773	1	1
189	TPO	A	2	198	99	99	0	0	0	0.5000	0.8636	0.9302	0.9487	0.9738	1	1
190	TRF	A	2	179	99	80	0	0	0	0.5531	0.9105	0.9404	0.9552	0.9730	1	1
191	TYR	A	2	198	99	99	0	0	0	0.5000	0.7728	0.8776	0.8937	0.8991	1	1
192	US	A	2	198	99	99	0	0	0	0.5000	0.7600	0.8024	0.8895	0.9152	1	1
193	Ventricles	T	2	198	99	99	0	0	0	0.5000	0.7659	0.8668	0.8975	0.9145	1	1
194	veterinary	T	2	198	99	99	0	0	0	0.5000	0.6474	0.6785	0.7061	0.6790	1	0
195	Wasp	AT	2	198	99	99	0	0	0	0.5000	0.9095	0.9200	0.9504	0.9691	1	1
196	WBS	A	2	128	93	35	0	0	0	0.7266	0.8542	0.9586	0.9407	0.9872	1	1
197	WT1	A	2	198	99	99	0	0	0	0.5000	0.7220	0.7063	0.7708	0.7730	1	1
198	Yellow Fever	T	2	183	99	84	0	0	0	0.5410	0.7270	0.8293	0.8684	0.8773	1	1

**Table A2.** Interactive learning results for 74 ambiguous abbreviations in the UMN corpus. Please see the caption of Table A1 for explanation of the header.

ID	Word	Type	#S	#inst	#inst in top 5 senses					major sense ratio	ALC scores				IL > AL	IL > RR
					S1	S2	S3	S4	S5		RS	AL	RR	IL		
1	AB	A	11	499	345	137	8	2	1	0.6914	0.7117	0.7296	0.7310	0.8478	1	1
2	VBG	A	2	500	299	201	0	0	0	0.5980	0.8961	0.9449	0.9446	0.9622	1	1
3	AC	A	11	500	161	158	118	42	9	0.3220	0.6691	0.6959	0.7053	0.8040	1	1
4	ALD	A	5	500	407	88	3	1	1	0.8140	0.8731	0.9212	0.9160	0.9542	1	1
5	AMA	A	3	500	444	31	25	0	0	0.8880	0.8798	0.9137	0.9259	0.9499	1	1
6	ASA	A	3	500	404	93	3	0	0	0.8080	0.9080	0.9374	0.9378	0.9560	1	1
7	AVR	A	7	500	381	103	5	4	4	0.7620	0.7635	0.8105	0.7975	0.9073	1	1
8	AV	A	4	500	374	116	8	2	0	0.7480	0.7678	0.8054	0.8054	0.8663	1	1
9	BAL	A	2	500	457	43	0	0	0	0.9140	0.8973	0.9392	0.9446	0.9704	1	1
10	BK	A	2	500	343	157	0	0	0	0.6860	0.8222	0.9244	0.9422	0.9550	1	1
11	BMP	A	4	500	456	36	7	1	0	0.9120	0.8443	0.8484	0.8406	0.9026	1	1
12	BM	A	4	500	459	25	14	2	0	0.9180	0.8855	0.9005	0.8914	0.9381	1	1
13	C&S	A	5	500	434	47	16	2	1	0.8680	0.9410	0.9783	0.9784	0.9832	1	1
14	C3	A	4	500	249	243	6	2	0	0.4980	0.8442	0.8622	0.8887	0.9262	1	1
15	C4	A	5	500	261	231	6	1	1	0.5220	0.8058	0.8479	0.8540	0.9046	1	1
16	CA	A	4	500	391	105	2	2	0	0.7820	0.7840	0.8139	0.8332	0.8570	1	1
17	CDI	A	4	500	270	225	3	2	0	0.5400	0.8780	0.9224	0.9168	0.9655	1	1
18	CEA	A	5	500	444	53	1	1	1	0.8880	0.8423	0.8732	0.8772	0.9240	1	1
19	CR	A	6	500	453	28	16	1	1	0.9060	0.9122	0.9315	0.9315	0.9443	1	1
20	CTA	A	5	500	396	100	2	1	1	0.7920	0.8832	0.9249	0.9246	0.9661	1	1
21	CVA	A	2	500	278	222	0	0	0	0.5560	0.9133	0.9516	0.9470	0.9653	1	1
22	CVP	A	3	500	436	62	2	0	0	0.8720	0.8705	0.9296	0.9141	0.9603	1	1
23	CVS	A	3	500	457	41	2	0	0	0.9140	0.9255	0.9699	0.9595	0.9784	1	1
24	DC	A	8	500	282	152	31	31	1	0.5640	0.6331	0.6714	0.6981	0.7834	1	1
25	DIP	A	3	500	462	36	2	0	0	0.9240	0.9262	0.9590	0.9613	0.9827	1	1
26	DM	A	5	500	286	209	3	1	1	0.5720	0.8098	0.8552	0.8656	0.9128	1	1
27	DT	A	8	500	336	129	23	4	3	0.6720	0.6923	0.7470	0.7365	0.8373	1	1
28	EC	A	5	499	439	45	11	2	2	0.8798	0.8945	0.9137	0.9065	0.9370	1	1
29	ER	A	3	500	448	34	18	0	0	0.8960	0.8996	0.9240	0.9345	0.9539	1	1
30	ES	A	6	500	469	14	8	7	1	0.9380	0.8394	0.8359	0.8315	0.9355	1	1
31	ET	A	8	500	289	200	6	1	1	0.5780	0.7731	0.8389	0.8289	0.9287	1	1
32	FISH	AT	2	500	449	51	0	0	0	0.8980	0.9152	0.9772	0.9748	0.9889	1	1
33	FSH	A	3	500	265	231	4	0	0	0.5300	0.7603	0.8267	0.8345	0.8691	1	1
34	GT	A	6	500	446	30	16	5	2	0.8920	0.8479	0.8648	0.8527	0.9094	1	1
35	IA	A	9	500	275	176	19	11	5	0.5500	0.7305	0.7704	0.7564	0.8725	1	1
36	IB	A	9	500	472	8	8	5	2	0.9440	0.8470	0.8604	0.8619	0.9477	1	1
37	IM	A	3	500	461	38	1	0	0	0.9220	0.8934	0.9286	0.9269	0.9604	1	1
38	IR	A	5	500	394	102	2	1	1	0.7880	0.8695	0.9047	0.9043	0.9522	1	1
39	IT	AT	12	500	225	103	58	48	40	0.4500	0.5951	0.6022	0.6329	0.7505	1	1
40	IVF	A	4	500	308	188	3	1	0	0.6160	0.8594	0.8785	0.8922	0.9182	1	1
41	LA	A	6	500	426	40	30	2	1	0.8520	0.8719	0.9085	0.9055	0.9441	1	1
42	LE	A	9	500	345	134	5	5	3	0.6900	0.7220	0.8070	0.7870	0.8951	1	1
43	MOM	A	4	500	439	57	3	1	0	0.8780	0.9683	0.9864	0.9798	0.9908	1	1
44	MP	A	14	500	179	107	105	55	12	0.3580	0.3826	0.4144	0.4161	0.5390	1	1
45	MR	A	6	500	314	176	5	3	1	0.6280	0.7695	0.8079	0.8141	0.8990	1	1
46	MSSA	A	2	500	418	82	0	0	0	0.8360	0.8539	0.9239	0.9142	0.9426	1	1

47	MS	A	10	500	279	207	4	3	2	0.5580	0.6551	0.6979	0.7002	0.7818	1	1
48	NAD	A	2	500	377	123	0	0	0	0.7540	0.8469	0.8805	0.9071	0.9102	1	1
49	NA	A	5	500	474	14	10	1	1	0.9480	0.9644	0.9759	0.9726	0.9856	1	1
50	NP	A	6	500	438	53	5	2	1	0.8760	0.8601	0.9044	0.8987	0.9508	1	1
51	OP	A	8	500	308	121	55	6	5	0.6160	0.8660	0.8938	0.8815	0.9519	1	1
52	OR	AT	4	500	466	32	1	1	0	0.9320	0.9160	0.9412	0.9427	0.9665	1	1
53	OTC	A	2	500	469	31	0	0	0	0.9380	0.9292	0.9502	0.9259	0.9534	1	1
54	PAC	A	10	500	275	137	47	25	7	0.5500	0.6971	0.7157	0.7340	0.8519	1	1
55	PA	A	8	500	212	138	83	61	2	0.4240	0.6909	0.7359	0.7415	0.8531	1	1
56	PCP	A	5	500	294	111	93	1	1	0.5880	0.6967	0.7432	0.7638	0.7977	1	1
57	PDA	A	3	500	361	138	1	0	0	0.7220	0.7618	0.8402	0.8705	0.8849	1	1
58	PD	A	15	500	409	34	14	9	8	0.8180	0.6612	0.6786	0.6822	0.8848	1	1
59	PE	A	4	500	408	89	2	1	0	0.8160	0.7921	0.8656	0.8715	0.9256	1	1
60	PM	A	4	500	423	74	2	1	0	0.8460	0.8290	0.9001	0.8718	0.9363	1	1
61	PR	A	7	500	252	141	88	12	4	0.5040	0.8883	0.9081	0.9073	0.9566	1	1
62	PT	A	5	500	455	22	21	1	1	0.9100	0.8822	0.9077	0.9116	0.9473	1	1
63	RA	A	5	500	394	66	36	3	1	0.7880	0.7666	0.8142	0.8103	0.8618	1	1
64	RT	A	8	500	336	149	7	2	2	0.6720	0.8177	0.8475	0.8402	0.9190	1	1
65	SA	A	7	498	373	88	29	4	2	0.7490	0.8506	0.8968	0.9078	0.9357	1	1
66	SBP	A	2	500	417	83	0	0	0	0.8340	0.8495	0.8920	0.9098	0.9102	1	1
67	SMA	A	6	500	353	84	56	3	2	0.7060	0.6944	0.7316	0.7389	0.8262	1	1
68	SS	A	3	500	439	57	4	0	0	0.8780	0.9767	0.9843	0.9803	0.9857	1	1
69	T1	A	6	500	198	194	103	3	1	0.3960	0.6762	0.6843	0.7335	0.7642	1	1
70	T2	A	7	500	227	166	97	7	1	0.4540	0.6620	0.7060	0.7184	0.7721	1	1
71	T3	A	6	500	268	156	65	5	4	0.5360	0.7294	0.7980	0.7970	0.8710	1	1
72	T4	A	3	500	424	41	35	0	0	0.8480	0.8407	0.8959	0.9079	0.9374	1	1
73	US	AT	4	500	402	94	3	1	0	0.8040	0.8439	0.8952	0.9035	0.9131	1	1
74	VAD	A	5	500	396	87	13	3	1	0.7920	0.7662	0.7912	0.8145	0.8765	1	1

**Table A3.** Interactive learning results for 24 ambiguous abbreviations in the VUH corpus. Please see the caption of Table A1 for explanation of the header.

ID	Word	Type	#S	#inst	#inst in top 5 senses					major sense ratio	ALC scores				IL > AL	IL > RR
					S1	S2	S3	S4	S5		RS	AL	RR	IL		
1	ad	AT	9	200	181	6	4	3	2	0.9050	0.7820	0.7535	0.7877	0.8490	1	1
2	ag	A	3	171	117	51	3	0	0	0.6842	0.7668	0.7938	0.8198	0.8040	1	0
3	bm	A	7	199	128	54	11	2	2	0.6432	0.6803	0.6704	0.7207	0.7551	1	1
4	ca	A	6	200	128	37	19	8	7	0.6400	0.8377	0.8544	0.8728	0.8451	0	0
5	cc	A	6	200	114	32	30	18	4	0.5700	0.8150	0.7913	0.8374	0.8792	1	1
6	cm	A	2	200	199	1	0	0	0	0.9950	0.9748	0.9724	0.9760	0.9815	1	1
7	dm	A	2	200	170	30	0	0	0	0.8500	0.7908	0.8174	0.8526	0.8745	1	1
8	gtt	A	4	200	143	46	9	2	0	0.7150	0.8460	0.8429	0.8787	0.8643	1	0
9	hd	A	8	199	112	79	3	1	1	0.5628	0.4951	0.4892	0.4911	0.5209	1	1
10	hs	A	6	191	147	20	13	8	2	0.7696	0.7337	0.7369	0.7619	0.8128	1	1
11	icd	A	2	199	195	4	0	0	0	0.9799	0.9732	0.9661	0.9795	0.9388	0	0
12	lad	A	4	200	150	48	1	1	0	0.7500	0.8824	0.9013	0.9142	0.9376	1	1
13	le	A	3	200	178	14	8	0	0	0.8900	0.9093	0.9190	0.9112	0.9365	1	1
14	ln	A	3	144	136	4	4	0	0	0.9444	0.8999	0.9092	0.9100	0.9570	1	1
15	med	A	5	195	96	79	12	6	2	0.4923	0.6887	0.6898	0.7093	0.7364	1	1
16	mg	A	2	200	197	3	0	0	0	0.9850	0.9734	0.9753	0.9761	0.9834	1	1
17	mi	A	2	200	199	1	0	0	0	0.9950	0.9563	0.9492	0.9565	0.9894	1	1
18	pe	A	5	200	65	61	53	16	5	0.3250	0.6781	0.6853	0.7251	0.7503	1	1
19	pt	A	5	198	179	9	6	2	2	0.9040	0.7895	0.7519	0.8036	0.8462	1	1
20	ra	A	4	200	149	36	14	1	0	0.7450	0.8623	0.8762	0.8856	0.9029	1	1
21	si	A	3	185	168	16	1	0	0	0.9081	0.8890	0.9080	0.9107	0.9308	1	1
22	sle	A	3	185	178	6	1	0	0	0.9622	0.9244	0.8794	0.9351	0.8895	1	0
23	ss	A	6	196	116	47	27	3	2	0.5918	0.8511	0.8820	0.9056	0.9411	1	1
24	tia	A	2	200	199	1	0	0	0	0.9950	0.9457	0.9268	0.9366	0.9551	1	1