

**Appendix D**

**Summary Table of Impairment Findings  
by Study (includes all 10 Drugs)**

**APPENDIX D**  
**Summary Table of Impairment Findings by Study**

YES/NO indicates whether or not at least one finding of significant impairment (or sedation) was reported in the study. Empty columns for any of the 10 drugs, D1-D5 and N1-N5, indicate that the given drug was not evaluated in that study. See end of this table for notes concerning reference numbers and drug codes shown.

**REFERENCED STUDY**

ALC? (Y=Yes, N=No) indicates if study also included alcohol as a treatment effect.									2 <sup>nd</sup> GENERATION DRUGS				
Ref#	YEAR	AUTHOR	ALC?	D1	D2	D3	D4	D5	N1	N2	N3	N4	N5
1	1989	Alford C. et al.	N	YES				YES		NO			NO
2	1989	Aso T. et al.	N	YES									NO
3	1983	Bateman DN. et al.	Y						NO				
4	1982	Berlinger WG. et al.	N			YES							
5	1984	Betts T. et al.	N					YES					NO
6	1989	Betts T. et al.	N						YES				NO
7	1989	Bhatti JZ. et al.	Y										YES
8	1979	Biehl B	N	YES									
9	1992	Blom MW. et al.	N				YES						
11	1988	Borbely AA. et al.	N			x-NO							
12	1986	Bradley CM. et al.	N					YES					
13	1987	Bradley CM. et al.	N					YES					
14	1987	Bradley CM. et al.	N					YES				YES	
15	1993	Brookhuis KA. et al.	N					YES					
16	1990	Burns M	Y			YES							
17	1980	Burns M. et al.	Y			YES							
18	1993	Burns M. et al.	N			YES							NO
19	1994	Burns M. et al.	N			YES							
20	1998	Burns M. et al.	N			YES							
21	1974	Bye C. et al.	N					YES					
22	1977	Bye C. et al	N					YES					
23	1995	Caldwell J	N			YES							NO
24	1978	Carruthers SG. et al.	N			YES							
25	1982	Chapman PH. et al.	N	YES					NO				
26	1978	Clarke CH. et al.	N	YES	YES								NO
27	1984	Cohen AF. et al.	N			YES							
28	1985	Cohen AF. et al.	N					YES					
29	1987	Cohen AF. et al.	Y			YES							X

**REFERENCED STUDY**

ALC? (Y=Yes, N=No) indicates if study also included alcohol as a treatment effect.									2 <sup>nd</sup> GENERATION DRUGS				
Ref#	YEAR	AUTHOR	ALC?	D1	D2	D3	D4	D5	N1	N2	N3	N4	N5
30	1998	Curran HV, et al.	N			YES							
31	1972	Day ES, et al.	N		NO								
32	1986	De Gier JJ, et al.	N						NO				
33	1990	De Roeck J, et al.	N			NO				NO		NO	
34	1986	Dhorraintra B, et al.	N						NO				
35	1990	Dhorraintra B, et al.	N	YES									
36	1988	Doms M, et al.	Y							NO			
37	1996	Englisch W, et al.	N									NO	
38	1994	Fine BJ, et al.	N			YES							
39	1979	Fink M, et al.	N			YES							NO
40	1978	Franks HM, et al.	Y	YES									
41	1979	Franks HM, et al.	Y		NO								
42	1988	Gaillard AW, et al.	N		YES							YES	YES
43	1987	Gengo FM, et al.	N				YES			NO			
44	1990	Gengo FM, et al.	N			YES				YES			
45	1989	Goetz DW, et al.	N				YES						NO
46	1991	Goetz DW, et al.	N				YES						NO
47	1968	Goldstein L, et al.	N	YES		YES							
48	1982	Hamilton M, et al.	N					NO					
49	1976	Hindmarch I	N		NO								
50	1978	Hindmarch I, et al.	N	YES	NO								
51	1986	Hindmarch I, et al.	N						NO				
53	1992	Hopes H, et al.	N		YES								
54	1964	Hughes FW, et al.	Y			YES							
55	1992	Irving A, et al.	Y					NO					
56	1998	Katz IR, et al.	N			YES							
57	1997	Kay GG, et al.	N			YES						NO	
58	1994	Kerr JS, et al.	N					YES					YES
59	1993	Khosla PP, et al.	N	YES									
60	1987	Kohl RL, et al.	N						YES				
61	1978	Kulshrestha VK, et al.	N	YES									NO
62	1995	Ledin T, et al.	N		NO							NO	
63	1988	Lee A, et al.	N	YES									
64	1985	Levander S, et al.	N		YES		YES						

**REFERENCED STUDY**

ALC? (Y=Yes, N=No) indicates if study also included alcohol as a treatment effect.									2 <sup>nd</sup> GENERATION DRUGS				
Ref#	YEAR	AUTHOR	ALC?	D1	D2	D3	D4	D5	N1	N2	N3	N4	N5
65	1991	Levander S. et al.	N				YES			NO			
66	1997	Lines C. et al.	N			YES							
67	1973	Linnoila M	Y			NO							
68	1986	Mattila MJ. et al.	N			YES							
69	1989	Meador KJ. et al.	N	YES									NO
70	1978	Mohs RC	N			YES							
71	1978	Moser L. et al.	Y			YES							NO
73	1988	Moskowitz H. et al.	N			YES							NO
74	1992	Murri L. et al.	N										NO
75	1992	Neves-Pinto RM. et al.	N									NO	
76	1979	Nicholson AN	N	NO				YES					
77	1982	Nicholson AN. et al.	N					YES	NO				NO
78	1982	Nicholson AN. et al.	N					YES	NO				NO
79	1983	Nicholson AN. et al.	N					YES					NO
80	1984	Nicholson AN. et al.	N					YES					
81	1985	Nicholson AN. et al.	N					x-NO					
82	1986	Nicholson AN. et al.	N					YES					NO
83	1991	Nicholson AN. et al.	N	YES				YES					
84	1998	Nicholson AN. et al.	N						YES				
85	1992	Offenloch K. et al.	N										NO
86	1988	O'Hanlon JF	Y					YES				NO	NO
87	1994	Patat A. et al.	N		YES								
88	1995	Patat A. et al.	Y						YES				
89	1988	Pechadre JC. et al.	N						NO				YES
90	1991	Pechadre JC. et al.	N						NO		YES		
91	1975	Peck AW. et al.	N		YES			YES					
92	1993	Philpot EE. et al.	N	YES		YES							NO
93	1983	Pishkin V. et al.	N		YES	NO	NO						
94	1992	Preston KL. et al.	N			YES							
95	1992	Ramaekers JG. et al.	Y						YES		NO		
96	1994	Ramaekers JG. et al.	N			YES							YES
97	1978	Reinberg A. et al.	N		YES								NO
98	1993	Rice VJ. et al.	N			YES			NO				
99	1990	Riedel WJ. et al.	Y					YES				NO	NO
100	1990	Riedel WJ. et al.	Y						YES				

### REFERENCED STUDY

ALC? (Y=Yes, N=No) indicates if study also included alcohol as a treatment effect.									2 <sup>nd</sup> GENERATION DRUGS				
Ref#	YEAR	AUTHOR	ALC?	D1	D2	D3	D4	D5	N1	N2	N3	N4	N5
101	1984	Roehrs TA, et al.	N			YES							NO
102	1993	Roehrs TA, et al.	Y			YES							
103	1993	Roehrs TA, et al.	Y			YES							
104	1991	Rombaut N, et al.	N					YES					
105	1987	Roth T, et al.	N			YES						YES	
106	1989	Saarialho-Kere U, et al.	N										
107	1987	Saletu B, et al.	N			x-NO							
108	1997	Sands L, et al.	N			YES							
109	1994	Schaffler K, et al.	N									NO	
110	1994	Schweitzer PK, et al.	N			YES				NO			
111	1987	Seidel WF, et al.	N				YES			NO			
112	1981	Seppala T, et al.	N		YES								
113	1982	Seppala T, et al.	N						NO				
114	1996	Simons FE, et al.	N			YES			NO	YES		NO	NO
115	1994	Simons KJ, et al.	N			YES	YES			NO			
116	1980	Spector R, et al.	N			YES							
117	1989	Swire FMM, et al.	N					YES					NO
119	1994	Tharion WJ, et al.	N			YES							NO
120	1986	Unchern S, et al.	N	YES		YES							NO
121	1997	Valk PJ, et al.	N					YES				NO	
122	1998	Vermeeren A, et al.	Y		YES						YES		
123	1992	Volkerts ER, et al.	N					YES		NO			YES
124	1994	Vuurman EF, et al.	N		YES								
125	1992	Walsh JK, et al.	N				YES			NO			
126	1994	Walsh JK, et al.	N			YES				NO			
127	1990	Wilkinson CJ, et al.	Y			YES						NO	
128	1998	Wilkinson CJ, et al.	Y			NO						NO	
129	1998	Wilkinson CJ, et al.	N			YES							
130	1992	Witek TJ, Jr., et al.	N			YES							NO
131	1995	Witek TJ, Jr., et al.	N	YES		YES							NO
132	1998	Yasuda SU, et al.	N	YES									
133	1998	Comer SD, et al.	N									NO	
134	1998	Scavone JM, et al.	N			NO							

NOTES: See following page for notes for table presented above.

## APPENDIX D

### Summary Table of Impairment Findings by Study

Continued...

Notes: Results for review were limited to n=134 references (REF# shown above) which actually reflect 138 separate studies since some references reported more than one study. Also, of the indexed n=134 studies, four were excluded: #10,#52,#72,#118.

Studies limited to findings for residual effects only are noted above with an "x" prefix, eg. "x-NO".

#### 1<sup>st</sup> GENERATION DRUGS:

D1=chlorpheniramine, D2=clemastine, D3=diphenhydramine, D4=hydroxyzine, D5=tripolidine.

#### 2<sup>nd</sup> GENERATION DRUGS:

N1=astemizole, n2=cetirizine, N3=fexofenadine, N4=loratadine, N5=terfenadine.