

Pediatric Phase I Trial Design Using Maximum Target Inhibition as the Primary Endpoint*

Probability Worksheet

DLT Yes	0.7	PD Yes	0.9
DLT No	0.3	PD No	0.1

Patient 1		Patient 2		Probability	Stop	Expand	Escalate
DLT	PD	DLT	PD				
No	No	No	No	0.0009	0	0	0.0009
No	No	No	Yes	0.0081	0	0	0.0081
No	No	Yes	No	0.0021	0	0.0021	0
No	No	Yes	Yes	0.0189	0	0.0189	0
No	Yes	No	No	0.0081	0	0	0.0081
No	Yes	No	Yes	0.0729	0	0.0729	0
No	Yes	Yes	No	0.0189	0	0.0189	0
No	Yes	Yes	Yes	0.1701	0	0.1701	0
Yes	No	No	No	0.0021	0	0.0021	0
Yes	No	No	Yes	0.0189	0	0.0189	0
Yes	No	Yes	No	0.0049	0.0049	0	0
Yes	No	Yes	Yes	0.0441	0.0441	0	0
Yes	Yes	No	No	0.0189	0	0.0189	0
Yes	Yes	No	Yes	0.1701	0	0.1701	0
Yes	Yes	Yes	No	0.0441	0.0441	0	0
Yes	Yes	Yes	Yes	0.3969	0.3969	0	0
Probability					0.4900	0.4929	0.0171

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Patient 3		Patient 4		Patient 5		Patient 6		Probability
DLT	PD	DLT	PD	DLT	PD	DLT	PD	
No	No	No	No	No	No	No	No	0.00000081
No	No	No	No	No	No	No	Yes	0.00000729
No	No	No	No	No	No	Yes	No	0.00000189
No	No	No	No	No	No	Yes	Yes	0.00001701
No	No	No	No	No	Yes	No	No	0.00000729

No	No	No	No	No	Yes	No	Yes	0.00006561
No	No	No	No	No	Yes	Yes	No	0.00001701
No	No	No	No	No	Yes	Yes	Yes	0.00015309
No	No	No	No	Yes	No	No	No	0.00000189
No	No	No	No	Yes	No	No	Yes	0.00001701
No	No	No	No	Yes	No	Yes	No	0.00000441
No	No	No	No	Yes	No	Yes	Yes	0.00003969
No	No	No	No	Yes	Yes	No	No	0.00001701
No	No	No	No	Yes	Yes	No	Yes	0.00015309
No	No	No	No	Yes	Yes	Yes	No	0.00003969
No	No	No	No	Yes	Yes	Yes	Yes	0.00035721
No	No	No	Yes	No	No	No	No	0.00000729
No	No	No	Yes	No	No	No	Yes	0.00006561
No	No	No	Yes	No	No	Yes	No	0.00001701
No	No	No	Yes	No	No	Yes	Yes	0.00015309
No	No	No	Yes	No	Yes	No	No	0.00006561
No	No	No	Yes	No	Yes	No	Yes	0.00059049
No	No	No	Yes	No	Yes	Yes	No	0.00015309
No	No	No	Yes	No	Yes	Yes	Yes	0.00137781
No	No	No	Yes	Yes	No	No	No	0.00001701
No	No	No	Yes	Yes	No	No	Yes	0.00015309
No	No	No	Yes	Yes	No	Yes	No	0.00003969
No	No	No	Yes	Yes	No	Yes	Yes	0.00035721
No	No	No	Yes	Yes	Yes	No	No	0.00015309
No	No	No	Yes	Yes	Yes	No	Yes	0.00137781
No	No	No	Yes	Yes	Yes	Yes	No	0.00035721
No	No	No	Yes	Yes	Yes	Yes	Yes	0.00321489
No	No	Yes	No	No	No	No	No	0.00000189
No	No	Yes	No	No	No	No	Yes	0.00001701
No	No	Yes	No	No	No	Yes	No	0.00000441
No	No	Yes	No	No	No	Yes	Yes	0.00003969
No	No	Yes	No	No	Yes	No	No	0.00001701
No	No	Yes	No	No	Yes	No	Yes	0.00015309
No	No	Yes	No	No	Yes	Yes	No	0.00003969
No	No	Yes	No	No	Yes	Yes	Yes	0.00035721
No	No	Yes	No	Yes	No	No	No	0.00000441

No	No	Yes	No	Yes	No	No	Yes	0.00003969
No	No	Yes	No	Yes	No	Yes	No	0.00001029
No	No	Yes	No	Yes	No	Yes	Yes	0.00009261
No	No	Yes	No	Yes	Yes	No	No	0.00003969
No	No	Yes	No	Yes	Yes	No	Yes	0.00035721
No	No	Yes	No	Yes	Yes	Yes	No	0.00009261
No	No	Yes	No	Yes	Yes	Yes	Yes	0.00083349
No	No	Yes	Yes	No	No	No	No	0.00001701
No	No	Yes	Yes	No	No	No	Yes	0.00015309
No	No	Yes	Yes	No	No	Yes	No	0.00003969
No	No	Yes	Yes	No	No	Yes	Yes	0.00035721
No	No	Yes	Yes	No	Yes	No	Yes	0.00015309
No	No	Yes	Yes	No	Yes	No	Yes	0.00137781
No	No	Yes	Yes	No	Yes	Yes	No	0.00035721
No	No	Yes	Yes	No	Yes	Yes	Yes	0.00321489
No	No	Yes	Yes	Yes	No	No	No	0.00003969
No	No	Yes	Yes	Yes	No	No	Yes	0.00035721
No	No	Yes	Yes	Yes	No	Yes	No	0.00009261
No	No	Yes	Yes	Yes	No	Yes	Yes	0.00083349
No	No	Yes	Yes	Yes	Yes	No	No	0.00035721
No	No	Yes	Yes	Yes	Yes	No	Yes	0.00321489
No	No	Yes	Yes	Yes	Yes	Yes	No	0.00083349
No	No	Yes	Yes	Yes	Yes	Yes	Yes	0.00750141
No	Yes	No	No	No	No	No	No	0.00000729
No	Yes	No	No	No	No	No	Yes	0.00006561
No	Yes	No	No	No	No	Yes	No	0.00001701
No	Yes	No	No	No	No	Yes	Yes	0.00015309
No	Yes	No	No	No	Yes	No	No	0.00006561
No	Yes	No	No	No	Yes	No	Yes	0.00059049
No	Yes	No	No	No	Yes	Yes	No	0.00015309
No	Yes	No	No	No	Yes	Yes	Yes	0.00137781
No	Yes	No	No	Yes	No	No	No	0.00001701
No	Yes	No	No	Yes	No	No	Yes	0.00015309
No	Yes	No	No	Yes	No	Yes	No	0.00003969
No	Yes	No	No	Yes	No	Yes	Yes	0.00035721
No	Yes	No	No	Yes	Yes	No	No	0.00015309

No	Yes	No	No	Yes	Yes	No	Yes	0.00137781
No	Yes	No	No	Yes	Yes	Yes	No	0.00035721
No	Yes	No	No	Yes	Yes	Yes	Yes	0.00321489
No	Yes	No	Yes	No	No	No	No	0.00006561
No	Yes	No	Yes	No	No	No	Yes	0.00059049
No	Yes	No	Yes	No	No	Yes	No	0.00015309
No	Yes	No	Yes	No	No	Yes	Yes	0.00137781
No	Yes	No	Yes	No	Yes	No	No	0.00059049
No	Yes	No	Yes	No	Yes	No	Yes	0.00531441
No	Yes	No	Yes	No	Yes	Yes	No	0.00137781
No	Yes	No	Yes	No	Yes	Yes	Yes	0.01240029
No	Yes	No	Yes	Yes	No	No	No	0.00015309
No	Yes	No	Yes	Yes	No	No	Yes	0.00137781
No	Yes	No	Yes	Yes	No	Yes	No	0.00035721
No	Yes	No	Yes	Yes	No	Yes	Yes	0.00321489
No	Yes	No	Yes	Yes	Yes	No	No	0.00137781
No	Yes	No	Yes	Yes	Yes	No	Yes	0.01240029
No	Yes	No	Yes	Yes	Yes	Yes	No	0.00321489
No	Yes	No	Yes	Yes	Yes	Yes	Yes	0.02893401
No	Yes	Yes	No	No	No	No	No	0.00001701
No	Yes	Yes	No	No	No	No	Yes	0.00015309
No	Yes	Yes	No	No	No	Yes	No	0.00003969
No	Yes	Yes	No	No	No	Yes	Yes	0.00035721
No	Yes	Yes	No	No	Yes	No	No	0.00015309
No	Yes	Yes	No	No	Yes	No	Yes	0.00137781
No	Yes	Yes	No	No	Yes	Yes	No	0.00035721
No	Yes	Yes	No	No	Yes	Yes	Yes	0.00321489
No	Yes	Yes	No	Yes	No	No	No	0.00003969
No	Yes	Yes	No	Yes	No	No	Yes	0.00035721
No	Yes	Yes	No	Yes	No	Yes	No	0.00009261
No	Yes	Yes	No	Yes	No	Yes	Yes	0.00083349
No	Yes	Yes	No	Yes	Yes	No	No	0.00035721
No	Yes	Yes	No	Yes	Yes	No	Yes	0.00321489
No	Yes	Yes	No	Yes	Yes	Yes	No	0.00083349
No	Yes	Yes	No	Yes	Yes	Yes	Yes	0.00750141
No	Yes	Yes	Yes	No	No	No	No	0.00015309

No	Yes	Yes	Yes	No	No	No	Yes	0.00137781
No	Yes	Yes	Yes	No	No	Yes	No	0.00035721
No	Yes	Yes	Yes	No	No	Yes	Yes	0.00321489
No	Yes	Yes	Yes	No	Yes	No	No	0.00137781
No	Yes	Yes	Yes	No	Yes	No	Yes	0.01240029
No	Yes	Yes	Yes	No	Yes	Yes	No	0.00321489
No	Yes	Yes	Yes	No	Yes	Yes	Yes	0.02893401
No	Yes	Yes	Yes	Yes	No	No	No	0.00035721
No	Yes	Yes	Yes	Yes	No	No	Yes	0.00321489
No	Yes	Yes	Yes	Yes	No	Yes	No	0.00083349
No	Yes	Yes	Yes	Yes	No	Yes	Yes	0.00750141
No	Yes	Yes	Yes	Yes	Yes	No	No	0.00321489
No	Yes	Yes	Yes	Yes	Yes	No	Yes	0.02893401
No	Yes	Yes	Yes	Yes	Yes	Yes	No	0.00750141
No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	0.06751269
Yes	No	No	No	No	No	No	No	0.00000189
Yes	No	No	No	No	No	No	Yes	0.00001701
Yes	No	No	No	No	No	Yes	No	0.00000441
Yes	No	No	No	No	No	Yes	Yes	0.00003969
Yes	No	No	No	No	Yes	No	No	0.00001701
Yes	No	No	No	No	Yes	No	Yes	0.00015309
Yes	No	No	No	No	Yes	Yes	No	0.00003969
Yes	No	No	No	No	Yes	Yes	Yes	0.00035721
Yes	No	No	No	Yes	No	No	No	0.00000441
Yes	No	No	No	Yes	No	No	Yes	0.00003969
Yes	No	No	No	Yes	No	Yes	No	0.00001029
Yes	No	No	No	Yes	No	Yes	Yes	0.00009261
Yes	No	No	No	Yes	Yes	No	No	0.00003969
Yes	No	No	No	Yes	Yes	No	Yes	0.00035721
Yes	No	No	No	Yes	Yes	Yes	No	0.00009261
Yes	No	No	No	Yes	Yes	Yes	Yes	0.00083349
Yes	No	No	Yes	No	No	No	No	0.00001701
Yes	No	No	Yes	No	No	No	Yes	0.00015309
Yes	No	No	Yes	No	No	Yes	No	0.00003969
Yes	No	No	Yes	No	No	Yes	Yes	0.00035721
Yes	No	No	Yes	No	Yes	No	No	0.00015309

Yes	No	No	Yes	No	Yes	No	Yes	0.00137781
Yes	No	No	Yes	No	Yes	Yes	No	0.00035721
Yes	No	No	Yes	No	Yes	Yes	Yes	0.00321489
Yes	No	No	Yes	Yes	No	No	No	0.00003969
Yes	No	No	Yes	Yes	No	No	Yes	0.00035721
Yes	No	No	Yes	Yes	No	Yes	No	0.00009261
Yes	No	No	Yes	Yes	No	Yes	Yes	0.00083349
Yes	No	No	Yes	Yes	Yes	No	No	0.00035721
Yes	No	No	Yes	Yes	Yes	No	Yes	0.00321489
Yes	No	No	Yes	Yes	Yes	Yes	No	0.00083349
Yes	No	No	Yes	Yes	Yes	Yes	Yes	0.00750141
Yes	No	Yes	No	No	No	No	No	0.00000441
Yes	No	Yes	No	No	No	No	Yes	0.00003969
Yes	No	Yes	No	No	No	Yes	No	0.00001029
Yes	No	Yes	No	No	No	Yes	Yes	0.00009261
Yes	No	Yes	No	No	Yes	No	No	0.00003969
Yes	No	Yes	No	No	Yes	No	Yes	0.00035721
Yes	No	Yes	No	No	Yes	Yes	No	0.00009261
Yes	No	Yes	No	No	Yes	Yes	Yes	0.00083349
Yes	No	Yes	No	Yes	No	No	No	0.00001029
Yes	No	Yes	No	Yes	No	No	Yes	0.00009261
Yes	No	Yes	No	Yes	No	Yes	No	0.00002401
Yes	No	Yes	No	Yes	No	Yes	Yes	0.00021609
Yes	No	Yes	No	Yes	Yes	No	No	0.00009261
Yes	No	Yes	No	Yes	Yes	No	Yes	0.00083349
Yes	No	Yes	No	Yes	Yes	Yes	No	0.00021609
Yes	No	Yes	No	Yes	Yes	Yes	Yes	0.00194481
Yes	No	Yes	Yes	No	No	No	No	0.00003969
Yes	No	Yes	Yes	No	No	No	Yes	0.00035721
Yes	No	Yes	Yes	No	No	Yes	No	0.00009261
Yes	No	Yes	Yes	No	No	Yes	Yes	0.00083349
Yes	No	Yes	Yes	No	Yes	No	No	0.00035721
Yes	No	Yes	Yes	No	Yes	No	Yes	0.00321489
Yes	No	Yes	Yes	No	Yes	Yes	No	0.00083349
Yes	No	Yes	Yes	No	Yes	Yes	Yes	0.00750141
Yes	No	Yes	Yes	Yes	No	No	No	0.00009261

Yes	No	Yes	Yes	Yes	No	No	Yes	0.00083349
Yes	No	Yes	Yes	Yes	No	Yes	No	0.00021609
Yes	No	Yes	Yes	Yes	No	Yes	Yes	0.00194481
Yes	No	Yes	Yes	Yes	Yes	No	No	0.00083349
Yes	No	Yes	Yes	Yes	Yes	No	Yes	0.00750141
Yes	No	Yes	Yes	Yes	Yes	Yes	No	0.00194481
Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	0.01750329
Yes	Yes	No	No	No	No	No	No	0.00001701
Yes	Yes	No	No	No	No	No	Yes	0.00015309
Yes	Yes	No	No	No	No	Yes	No	0.00003969
Yes	Yes	No	No	No	No	Yes	Yes	0.00035721
Yes	Yes	No	No	No	Yes	No	No	0.00015309
Yes	Yes	No	No	No	Yes	No	Yes	0.00137781
Yes	Yes	No	No	No	Yes	Yes	No	0.00035721
Yes	Yes	No	No	No	Yes	Yes	Yes	0.00321489
Yes	Yes	No	No	Yes	No	No	No	0.00003969
Yes	Yes	No	No	Yes	No	No	Yes	0.00035721
Yes	Yes	No	No	Yes	No	Yes	No	0.00009261
Yes	Yes	No	No	Yes	No	Yes	Yes	0.00083349
Yes	Yes	No	No	Yes	Yes	No	No	0.00035721
Yes	Yes	No	No	Yes	Yes	No	Yes	0.00321489
Yes	Yes	No	No	Yes	Yes	Yes	No	0.00083349
Yes	Yes	No	No	Yes	Yes	Yes	Yes	0.00750141
Yes	Yes	No	Yes	No	No	No	No	0.00015309
Yes	Yes	No	Yes	No	No	No	Yes	0.00137781
Yes	Yes	No	Yes	No	No	Yes	No	0.00035721
Yes	Yes	No	Yes	No	No	Yes	Yes	0.00321489
Yes	Yes	No	Yes	No	Yes	No	No	0.00137781
Yes	Yes	No	Yes	No	Yes	No	Yes	0.01240029
Yes	Yes	No	Yes	No	Yes	Yes	No	0.00321489
Yes	Yes	No	Yes	No	Yes	Yes	Yes	0.02893401
Yes	Yes	No	Yes	Yes	No	No	No	0.00035721
Yes	Yes	No	Yes	Yes	No	No	Yes	0.00321489
Yes	Yes	No	Yes	Yes	No	Yes	No	0.00083349
Yes	Yes	No	Yes	Yes	No	Yes	Yes	0.00750141
Yes	Yes	No	Yes	Yes	Yes	No	No	0.00321489

	Expand		
No DLT	0.0729	0.1479	
1 DLT	0.4200	0.8521	
1DLT + 2 PD	0.3402		
DLT + <2 PD	0.0798		

≥2 DLT	0.97339627	STOP - MTD exceeded
≥5/6 PD	0.009006685	STOP - PD Endpoint met
	0.017597045	Escalate

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>1 DLTs	1 DLT	0 DLT	>2 PD & 0 DLT	<3 PD & 0 DLT	≥3 PD & 1 DLT	<3 PD & 1 DLT
0	0	0.00000081	0	0.00000081	0	0
0	0	0.00000729	0	0.00000729	0	0
0	0.00000189	0	0	0	0	0.00000189
0	0.00001701	0	0	0	0	0.00001701
0	0	0.00000729	0	0.00000729	0	0

0	0	0.00006561	0	0.00006561	0	0
0	0.00001701	0	0	0	0	0.00001701
0	0.00015309	0	0	0	0	0.00015309
0	0.00000189	0	0	0	0	0.00000189
0	0.00001701	0	0	0	0	0.00001701
0.00000441	0	0	0	0	0	0
0.00003969	0	0	0	0	0	0
0	0.00001701	0	0	0	0	0.00001701
0	0.00015309	0	0	0	0	0.00015309
0.00003969	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0	0	0.00000729	0	0.00000729	0	0
0	0	0.00006561	0	0.00006561	0	0
0	0.00001701	0	0	0	0	0.00001701
0	0.00015309	0	0	0	0	0.00015309
0	0	0.00006561	0	0.00006561	0	0
0	0	0.00059049	0.00059049	0	0	0
0	0.00015309	0	0	0	0	0.00015309
0	0.00137781	0	0	0	0.00137781	0
0	0.00001701	0	0	0	0	0.00001701
0	0.00015309	0	0	0	0	0.00015309
0.00003969	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0	0.00015309	0	0	0	0	0.00015309
0	0.00137781	0	0	0	0.00137781	0
0.00035721	0	0	0	0	0	0
0.00321489	0	0	0	0	0	0
0	0.00000189	0	0	0	0	0.00000189
0	0.00001701	0	0	0	0	0.00001701
0.00000441	0	0	0	0	0	0
0.00003969	0	0	0	0	0	0
0	0.00001701	0	0	0	0	0.00001701
0	0.00015309	0	0	0	0	0.00015309
0.00003969	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0.00000441	0	0	0	0	0	0

0.00003969	0	0	0	0	0	0
0.00001029	0	0	0	0	0	0
0.00009261	0	0	0	0	0	0
0.00003969	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0.00009261	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0
0	0.00001701	0	0	0	0	0.00001701
0	0.00015309	0	0	0	0	0.00015309
0.00003969	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0	0.00015309	0	0	0	0	0.00015309
0	0.00137781	0	0	0	0.00137781	0
0.00035721	0	0	0	0	0	0
0.00321489	0	0	0	0	0	0
0.00003969	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0.00009261	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0.00321489	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0
0.00750141	0	0	0	0	0	0
0	0	0.00000729	0	0.00000729	0	0
0	0	0.00006561	0	0.00006561	0	0
0	0.00001701	0	0	0	0	0.00001701
0	0.00015309	0	0	0	0	0.00015309
0	0	0.00006561	0	0.00006561	0	0
0	0	0.00059049	0.00059049	0	0	0
0	0.00015309	0	0	0	0	0.00015309
0	0.00137781	0	0	0	0.00137781	0
0	0.00001701	0	0	0	0	0.00001701
0	0.00015309	0	0	0	0	0.00015309
0.00003969	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0	0.00015309	0	0	0	0	0.00015309

0	0.00137781	0	0	0	0.00137781	0
0.00035721	0	0	0	0	0	0
0.00321489	0	0	0	0	0	0
0	0	0.00006561	0	0.00006561	0	0
0	0	0.00059049	0.00059049	0	0	0
0	0.00015309	0	0	0	0	0.00015309
0	0.00137781	0	0	0	0.00137781	0
0	0	0.00059049	0.00059049	0	0	0
0	0	0.00531441	0.00531441	0	0	0
0	0.00137781	0	0	0	0.00137781	0
0	0.01240029	0	0	0	0.01240029	0
0	0.00015309	0	0	0	0	0.00015309
0	0.00137781	0	0	0	0.00137781	0
0.00035721	0	0	0	0	0	0
0.00321489	0	0	0	0	0	0
0	0.00137781	0	0	0	0.00137781	0
0	0.01240029	0	0	0	0.01240029	0
0.00321489	0	0	0	0	0	0
0.02893401	0	0	0	0	0	0
0	0.00001701	0	0	0	0	0.00001701
0	0.00015309	0	0	0	0	0.00015309
0.00003969	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0	0.00015309	0	0	0	0	0.00015309
0	0.00137781	0	0	0	0.00137781	0
0.00035721	0	0	0	0	0	0
0.00321489	0	0	0	0	0	0
0.00003969	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0.00009261	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0.00321489	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0
0.00750141	0	0	0	0	0	0
0	0.00015309	0	0	0	0	0.00015309

0	0.00137781	0	0	0	0.00137781	0
0.00035721	0	0	0	0	0	0
0.00321489	0	0	0	0	0	0
0	0.00137781	0	0	0	0.00137781	0
0	0.01240029	0	0	0	0.01240029	0
0.00321489	0	0	0	0	0	0
0.02893401	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0.00321489	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0
0.00750141	0	0	0	0	0	0
0.00321489	0	0	0	0	0	0
0.02893401	0	0	0	0	0	0
0.00750141	0	0	0	0	0	0
0.06751269	0	0	0	0	0	0
0	0.00000189	0	0	0	0	0.00000189
0	0.00001701	0	0	0	0	0.00001701
0.00000441	0	0	0	0	0	0
0.00003969	0	0	0	0	0	0
0	0.00001701	0	0	0	0	0.00001701
0	0.00015309	0	0	0	0	0.00015309
0.00003969	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0.00000441	0	0	0	0	0	0
0.00003969	0	0	0	0	0	0
0.00001029	0	0	0	0	0	0
0.00009261	0	0	0	0	0	0
0.00003969	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0.00009261	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0
0	0.00001701	0	0	0	0	0.00001701
0	0.00015309	0	0	0	0	0.00015309
0.00003969	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0	0.00015309	0	0	0	0	0.00015309

0	0.00137781	0	0	0	0.00137781	0
0.00035721	0	0	0	0	0	0
0.00321489	0	0	0	0	0	0
0.00003969	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0.00009261	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0.00321489	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0
0.00750141	0	0	0	0	0	0
0.00000441	0	0	0	0	0	0
0.00003969	0	0	0	0	0	0
0.00001029	0	0	0	0	0	0
0.00009261	0	0	0	0	0	0
0.00003969	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0.00009261	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0
0.00001029	0	0	0	0	0	0
0.00009261	0	0	0	0	0	0
0.00002401	0	0	0	0	0	0
0.00021609	0	0	0	0	0	0
0.00009261	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0
0.00021609	0	0	0	0	0	0
0.00194481	0	0	0	0	0	0
0.00003969	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0.00009261	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0.00321489	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0
0.00750141	0	0	0	0	0	0
0.00009261	0	0	0	0	0	0

0.00083349	0	0	0	0	0	0
0.00021609	0	0	0	0	0	0
0.00194481	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0
0.00750141	0	0	0	0	0	0
0.00194481	0	0	0	0	0	0
0.01750329	0	0	0	0	0	0
0	0.00001701	0	0	0	0	0.00001701
0	0.00015309	0	0	0	0	0.00015309
0.00003969	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0	0.00015309	0	0	0	0	0.00015309
0	0.00137781	0	0	0	0.00137781	0
0.00035721	0	0	0	0	0	0
0.00321489	0	0	0	0	0	0
0.00003969	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0.00009261	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0.00321489	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0
0.00750141	0	0	0	0	0	0
0	0.00015309	0	0	0	0	0.00015309
0	0.00137781	0	0	0	0.00137781	0
0.00035721	0	0	0	0	0	0
0.00321489	0	0	0	0	0	0
0	0.00137781	0	0	0	0.00137781	0
0	0.01240029	0	0	0	0.01240029	0
0.00321489	0	0	0	0	0	0
0.02893401	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0
0.00321489	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0
0.00750141	0	0	0	0	0	0
0.00321489	0	0	0	0	0	0

0.02893401	0	0	0	0	0	0	0
0.00750141	0	0	0	0	0	0	0
0.06751269	0	0	0	0	0	0	0
0.00003969	0	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0	0
0.00009261	0	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0	0
0.00321489	0	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0	0
0.00750141	0	0	0	0	0	0	0
0.00009261	0	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0	0
0.00021609	0	0	0	0	0	0	0
0.00194481	0	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0	0
0.00750141	0	0	0	0	0	0	0
0.00194481	0	0	0	0	0	0	0
0.01750329	0	0	0	0	0	0	0
0.00035721	0	0	0	0	0	0	0
0.00321489	0	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0	0
0.00750141	0	0	0	0	0	0	0
0.00321489	0	0	0	0	0	0	0
0.02893401	0	0	0	0	0	0	0
0.00750141	0	0	0	0	0	0	0
0.06751269	0	0	0	0	0	0	0
0.00083349	0	0	0	0	0	0	0
0.00750141	0	0	0	0	0	0	0
0.00194481	0	0	0	0	0	0	0
0.01750329	0	0	0	0	0	0	0
0.00750141	0	0	0	0	0	0	0
0.06751269	0	0	0	0	0	0	0
0.01750329	0	0	0	0	0	0	0
0.15752961	0	0	0	0	0	0	0

0.9163	0.0756	0.0081	0.00767637	0.00042363	0.07164612	0.00395388	
0.45164427	0.03726324	0.00399249	0.003783683	0.000208807	0.035314373	0.001948867	
		1				0.0837	1
		0.4929				0.04125573	0.4929

*Probabilities of the three possible outcomes (MTD exceeded, MTI achieved in 5 or more of 6 patients, and dose escalation) were calculated using a range of probabilities of DLT and greater than 90% DPP-4 inhibition. At a given dose level, if the true probability of MTI is 0.90 and true DLT probability is 0.05, the probability of exceeding the MTD is 0.03, of achieving MTI in 5 or more of 6 patients is 0.76 and of dose escalation is 0.21. With a true probability of MTI of 0.90 and an unacceptable DLT probability of 0.33, the outcome probabilities become 0.61, 0.29, and 0.10, respectively, whereas if the DPP-4 inhibition probability is 0.50 with a 0.05 DLT probability, outcome probabilities are 0.02, 0.10, and 0.88, respectively. DLT = dose-limiting toxicity. PD = Progressive Disease.