## Development of Early Stopping Guidelines for Slow Accruing Trials

The guidelines were developed on a database of 239 CTEP-sponsored phase III trial that were initiated on or prior to 2000 and stayed open for more than 15 months. This data base was randomly split into two subsets: training subset (115 trials) and validation subset (124 trials). Early accrual feasibility was measured in terms of the fraction of the projected accrual in quarters 5-6 (e.g., quarter 5-6 accrual over 20% of projected accrual for quarter 5-6). The overall trial success was judged by whether the final trial accrual was over 80% of projected. Training Data Set results are presented in Table 1. Based on these results the cut-off of 20% of projected accrual was selected for termination of the study. The results were validated on the validation data set Table 2. The results on the entire 239 patient data base are given in Table 3.

		Table 1 Tra	ining subset		
		quarter5-6 accrual over $20\%$ of projected			
		NO	YES	Total	
Total accrual over 80% of	NO	6*	25	31	
projected	YES	0	84	84	
Total		6	109	115	
		quarter5-6 a	of projected		
		NO	YES	Total	
Total accrual over 80%	NO	11**	20	31	
of projected	YES	2	82	84	
Total	-	13	102	115	
		quarter5-6 accrual over 40% of projected			
		NO	YES	Total	
Total accrual over 80%	NO	16	15	31	
of projected	YES	4	80	84	
Total		20	95	115	
		quarter5-6 a	f projected		
		NO	YES	Total	
Total accrual over 80%	NO	21	10	31	
of projected	YES	7	77	84	
Total		28	87	115	
		quarter5-6 a	of projected		
		NO	YES	Total	
Total accrual over 80%	NO	24	7	31	
of projected	YES	13	71	84	
Total		37	78	115	

Table 1 Training subset

<sup>\*</sup>Final percentages of total accrual were: **43%**, **6%**, **5%**, **4%**, **2% and 2%**. <sup>\*\*</sup>Final percentages of total accrual were: **63%**, **43%**, **28%**, **28%**, **25%**, **19%**, **6%**, **5%**, **4%**, **2%**,**2%** 

			tion subset		
		quarter5-6 accrual over <b>20</b> % of projected			
		NO	YES	Total	
Total accrual over 80% of projected	NO	9	30	39	
	YES	0	85	85	
Total		9	115	124	
		quarter5-6 accrual over 30% of projected			
		NO	YES	Total	
Total accrual over 80% of projected	NO	21	18	39	
	YES	3	82	85	
Total		24	100	124	
		quarter5-6 accrual over 50% of projected			
		NO	YES	Total	
Total accrual over 80% of projected	NO	27	12	39	
	YES	12	73	85	
Total	I	39	85	124	

## Table 2 Validation subset

## **Table 3 Entire 239-trial database**

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		quarter5-6 accrual over 20% of projected			
		NO	YES	Total	
Total accrual over 80% of projected	NO	15*	55	70	
	YES	0	169	169	
Total		15	224	239	
		quarter5-6 accrual over 50% of projected			
		NO	YES	Total	
Total accrual over 80% of projected	NO	48	22	70	
	YES	19	150	169	
Total		67	172	239	

\*Final percentages of total accrual were: 45%, 43%, 38%, 35%, 14%, 8%, 7%, 6%, 6%, 6%, 5%, 4%, 3%, 2%, 2%.