

File SOP803-A: HUMANE INTERVENTION POINTS FOR RODENT CANCER MODELS (TUMOR SIZE)

		Width (smallest measurement in cm)																														
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	
Length (largest measurement in cm)	0.1	0.00																														
	0.2	0.00	0.00																													
	0.3	0.00	0.01	0.01																												
	0.4	0.00	0.01	0.02	0.03																											
	0.5	0.00	0.01	0.02	0.04	0.07																										
	0.6	0.00	0.01	0.03	0.05	0.08	0.11																									
	0.7	0.00	0.01	0.03	0.06	0.09	0.13	0.18																								
	0.8	0.00	0.02	0.04	0.07	0.10	0.15	0.21	0.27																							
	0.9	0.00	0.02	0.04	0.08	0.12	0.17	0.23	0.30	0.38																						
	1.0	0.01	0.02	0.05	0.08	0.13	0.19	0.26	0.34	0.42	0.52																					
	1.1	0.01	0.02	0.05	0.09	0.14	0.21	0.28	0.37	0.47	0.58	0.70																				
	1.2	0.01	0.03	0.06	0.10	0.16	0.23	0.31	0.40	0.51	0.63	0.76	0.90																			
	1.3	0.01	0.03	0.06	0.11	0.17	0.25	0.33	0.44	0.55	0.68	0.82	0.98	1.15																		
	1.4	0.01	0.03	0.07	0.12	0.18	0.26	0.36	0.47	0.59	0.73	0.89	1.06	1.24	1.44																	
	1.5	0.01	0.03	0.07	0.13	0.20	0.28	0.38	0.50	0.64	0.79	0.95	1.13	1.33	1.54	1.77																
	1.6	0.01	0.03	0.08	0.13	0.21	0.30	0.41	0.54	0.68	0.84	1.01	1.21	1.42	1.64	1.88	2.14															
	1.7	0.01	0.04	0.08	0.14	0.22	0.32	0.44	0.57	0.72	0.89	1.08	1.28	1.50	1.74	2.00	2.28	2.57														
	1.8	0.01	0.04	0.08	0.15	0.24	0.34	0.46	0.60	0.76	0.94	1.14	1.36	1.59	1.85	2.12	2.41	2.72	3.05													
	1.9	0.01	0.04	0.09	0.16	0.25	0.36	0.49	0.64	0.81	0.99	1.20	1.43	1.68	1.95	2.24	2.55	2.88	3.22	3.59												
	2.0	0.01	0.04	0.09	0.17	0.26	0.38	0.51	0.67	0.85	1.05	1.27	1.51	1.77	2.05	2.36	2.68	3.03	3.39	3.78	4.19											
	2.1	0.01	0.04	0.10	0.18	0.27	0.40	0.54	0.70	0.89	1.10	1.33	1.58	1.86	2.16	2.47	2.81	3.18	3.56	3.97	4.40	4.85										
	2.2	0.01	0.05	0.10	0.18	0.29	0.41	0.56	0.74	0.93	1.15	1.39	1.66	1.95	2.26	2.59	2.95	3.33	3.73	4.16	4.61	5.08	5.58									
	2.3	0.01	0.05	0.11	0.19	0.30	0.43	0.59	0.77	0.98	1.20	1.46	1.73	2.04	2.36	2.71	3.08	3.48	3.90	4.35	4.82	5.31	5.83	6.37								
	2.4	0.01	0.05	0.11	0.20	0.31	0.45	0.62	0.80	1.02	1.26	1.52	1.81	2.12	2.46	2.83	3.22	3.63	4.07	4.54	5.03	5.54	6.08	6.65	7.24							
	2.5	0.01	0.05	0.12	0.21	0.33	0.47	0.64	0.84	1.06	1.31	1.58	1.88	2.21	2.57	2.95	3.35	3.78	4.24	4.73	5.24	5.77	6.34	6.92	7.54	8.18						
	2.6	0.01	0.05	0.12	0.22	0.34	0.49	0.67	0.87	1.10	1.36	1.65	1.96	2.30	2.67	3.06	3.49	3.93	4.41	4.91	5.45	6.00	6.59	7.20	7.84	8.51	9.20					
	2.7	0.01	0.06	0.13	0.23	0.35	0.51	0.69	0.90	1.15	1.41	1.71	2.04	2.39	2.77	3.18	3.62	4.09	4.58	5.10	5.65	6.23	6.84	7.48	8.14	8.84	9.56	10.31				
	2.8	0.01	0.06	0.13	0.23	0.37	0.53	0.72	0.94	1.19	1.47	1.77	2.11	2.48	2.87	3.30	3.75	4.24	4.75	5.29	5.86	6.47	7.10	7.76	8.44	9.16	9.91	10.69	11.49			
	2.9	0.02	0.06	0.14	0.24	0.38	0.55	0.74	0.97	1.23	1.52	1.84	2.19	2.57	2.98	3.42	3.89	4.39	4.92	5.48	6.07	6.70	7.35	8.03	8.75	9.49	10.26	11.07	11.90	12.77		
	3.0	0.02	0.06	0.14	0.25	0.39	0.57	0.77	1.01	1.27	1.57	1.90	2.26	2.65	3.08	3.53	4.02	4.54	5.09	5.67	6.28	6.93	7.60	8.31	9.05	9.82	10.62	11.45	12.32	13.21	14.14	

Formula Used for Tumour Volume Calculation:

$$\left(\frac{4}{3}\right) \times (3.14159) \times \left(\frac{\text{Length}}{2}\right) \times \left(\frac{\text{Width}}{2}\right)^2$$

Width	measure the shortest axis
Length	measure the longest axis
Depth	not in calculation, instead use the smallest measurement (width) twice - hence: $(\text{width}/2)^2$
	Tumor volume is approaching 1.5cm^3
	Tumour volume is approaching or exceeding 2.0cm^3

