

TABLE 59.—Relation of the edema of lung and the concentration of blood in gassed animals.

Dog No. and breed	Gas	Concentration per liter	Body weight	Weight of empty heart	Weight of wet lung	Weight of dry lung	Ratio of wet-dry lung	Ratio of weight of lung-heart	Red blood corpuscles before gas	Red blood corpuscles before death	Percentage increase of red blood corpuscles	Edema index
		<i>Mg.</i>	<i>Kg.</i>	<i>Gm.</i>	<i>Gm.</i>	<i>Gm.</i>						
1. Hound	Phosgene	82	14.0	155	715			4.60	5,148,000	7,936,000	54	3.53
2. Hound	do	80	18.5	159	760			5.40	6,068,000	10,870,000	79	3.42
3. Mastiff	do	75	26.0	170	915			5.40	8,400,000	10,808,000	28	4.15
4. Hound	do	82	17.8	154	822			5.34	7,172,000	7,640,000	7	4.10
5. Collie	do	99	17.8	177	570			3.22	6,192,000	11,260,000	82	2.48
6. Mongrel	do	102	6.4	53	320	27.5	11.7	5.93	8,280,000	10,760,000	30	4.56
7. Mongrel	do	112	8.6	92	400	37.0	10.8	4.35	9,385,000	9,824,000	5	3.34
8. Mongrel	do	109	11.0	93	375	38.0	9.8	4.04	7,520,000	8,432,000	12	3.11
9. Mongrel	do	109	6.8	69	219	24.5	8.9	3.16	9,848,000	9,055,000		2.44
10. Setter	Chloropicrin	949	13.6	132	631	61.0	10.3	4.77	8,040,000	12,120,000	51	3.68
11. Mongrel	do	840	9.5	103	600	46.0	13.1	5.84	6,276,000	6,458,000	3	4.50
12. Bull	do	887	13.6	138	684	66.0	10.3	4.75	7,176,000	9,068,000	23	3.66

The dogs were killed 8 to 13 hours after exposure to phosgene or chloropicrin. Comparison of the figures in the last two columns (edema index and percentage increase in red blood cells) shows that no parallelism exists between the degree of pulmonary edema present and the blood concentration.