

Historical Control Data in Mice

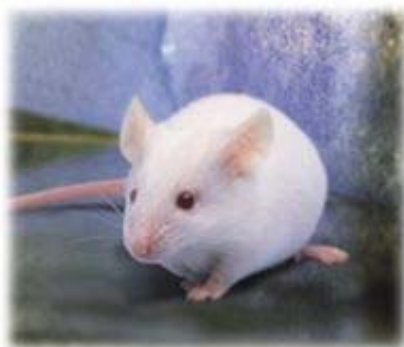


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¹ Additional HCD endpoints and years are available upon request.

Embryo-Fetal Developmental Historical Control Data

Notes regarding this dataset:

Due to calculation and database constraints, the study count may differ for each data type. This also means that animal count may differ for each data type. All the data that is presented is acceptable for use.

In the Reproductive Data, the total number of viable fetuses may not match the sum of the male and female fetuses. Sometimes, the sex of a fetus is not able to be determined.

Study Date Range: 13 Sep 1984 - 17 Sep 2016

Mean of Study Means

Endpoint	Total	Mean	S.D.	SEM	Median	Min	Max	25th Quartile	75th Quartile
NO. OF DATASETS	54								
Total No. of Animals in the Control Group	1356								
No. of Animals That Died	15								
No. of Animals That Aborted	3								
No. of Animals That Delivered	10								
Percent Pregnant		92.77	5.780	0.787	94.39	70.00	100.00	89.82	96.00
No. Gravid	1254								
No. With Only Resorptions	14								
No. of Dams With Live Fetuses	1213								
No. Nongravid	102								
No. Nongravid That Died	1								
No. of Animals Examined at Laparohysterectomy	1328								
Mean Gravid Uterine Weight (g)		20.90	1.549	0.231	20.78	16.07	23.86	20.00	21.86
Mean No. Viable Fetuses/Dam		12.26	0.865	0.118	12.27	9.90	13.78	11.79	12.75
Total No. Viable Fetuses	15048								
Viable Fetuses (%/Litter)		92.41	2.665	0.363	92.59	83.45	97.83	90.87	93.93
Mean No. Postimplantation Loss/Dam		0.95	0.307	0.042	0.93	0.26	1.62	0.77	1.18
Total No. of Postimplantation Losses	1171								
Postimplantation Loss (%/Litter)		7.59	2.665	0.363	7.41	2.17	16.55	6.07	9.13
Early Resorptions (%/Litter)		6.30	2.627	0.358	5.96	1.86	16.55	4.37	8.09
Late Resorptions (%/Litter)		1.16	0.817	0.111	1.23	0.00	3.25	0.39	1.69
Dead Fetuses (%/Litter)		0.13	0.307	0.042	0.00	0.00	1.15	0.00	0.00
Mean No. Implantations/Dam		13.20	0.901	0.123	13.21	10.76	14.83	12.65	14.01
Mean No. Corpora Lutea/Dam		14.62	1.115	0.152	14.89	11.72	17.27	13.80	15.42
Mean No. Preimplantation Loss/Dam		1.42	0.759	0.103	1.22	0.28	3.09	0.89	1.89
Total No. Preimplantation Losses	1753								
Preimplantation Loss (%/Litter)		9.27	4.540	0.618	8.53	2.10	21.25	5.99	12.65
Total No. Male Fetuses	7660								
Total No. Female Fetuses	7388								
% Males/Litter		50.95	3.033	0.413	51.37	41.11	58.29	49.13	52.49
% Females/Litter		49.05	3.033	0.413	48.63	41.71	58.89	47.51	50.87
Mean Fetal Body Weight (g)		1.340	0.0434	0.0059	1.339	1.214	1.457	1.311	1.359
Mean Male Body Weight (g)		1.363	0.0444	0.0060	1.363	1.235	1.477	1.334	1.385
Mean Female Body Weight (g)		1.313	0.0439	0.0060	1.312	1.172	1.420	1.283	1.331

Developmental Parameters for CD-1 (Standard)

CR_ASH_MC_EFD-S_2017.01
24 Jan 2017

Mean of Study Means

NO. OF DATASETS: 47	Fetuses	Litters
Total No. Examined Externally	13000	1047
Total No. Examined Viscerally	10850	1047
Total No. Examined Skeletally	11260	1046

MALFORMATIONS (% Per Litter)	Mean	S.D.	N	SEM	Median	Min	Max	25th Quartile	75th Quartile
TOTAL EXTERNAL MALFORMATIONS	0.88	0.734	47	0.107	0.63	0.00	3.36	0.38	1.06
TOTAL VISCERAL MALFORMATIONS	0.08	0.153	47	0.022	0.00	0.00	0.48	0.00	0.00
TOTAL SKELETAL MALFORMATIONS	0.67	0.833	47	0.121	0.54	0.00	4.97	0.00	0.80
TOTAL MALFORMATIONS	1.45	0.997	47	0.145	1.27	0.00	5.50	0.77	1.80
EXTERNAL									
Adactyly	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Amelia	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Apodia	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Astomia	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Body Shorter Than Normal	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Brachydactyly	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Carpal and/or Tarsal Flexure	0.16	0.299	47	0.044	0.00	0.00	1.13	0.00	0.30
Cleft Face	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Cleft Palate	0.34	0.522	47	0.076	0.00	0.00	2.54	0.00	0.38
Ectrodactyly	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Encephalomeningocele	0.01	0.060	47	0.009	0.00	0.00	0.41	0.00	0.00
Exencephaly with or without Open Eyelid(s)	0.08	0.226	47	0.033	0.00	0.00	1.13	0.00	0.00
Eyelid(s)- Open	0.08	0.268	47	0.039	0.00	0.00	1.71	0.00	0.00
Gastroschisis	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Genital Tubercle- Misshapen	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Hemimelia	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Hindlimb(s)- Malrotated	0.01	0.051	47	0.007	0.00	0.00	0.35	0.00	0.00
Intestine- Umbilical Herniation	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Mandibular Micrognathia	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Meningocele	0.02	0.081	47	0.012	0.00	0.00	0.40	0.00	0.00
Meningoencephalocele	0.01	0.035	47	0.005	0.00	0.00	0.24	0.00	0.00
Microphthalmia and/or Anophthalmia	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Microstomia	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Naris- Absent	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00

Developmental Parameters for CD-1 (Standard)

CR_ASH_MC_EFD-S_2017.01
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Mean of Study Means

NO. OF DATASETS: 47	Fetuses	Litters
Total No. Examined Externally	13000	1047
Total No. Examined Viscerally	10850	1047
Total No. Examined Skeletally	11260	1046

MALFORMATIONS (% Per Litter)	Mean	S.D.	N	SEM	Median	Min	Max	25th Quartile	75th Quartile
EXTERNAL									
Nose- Misshapen	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Omphalocele	0.03	0.107	47	0.016	0.00	0.00	0.57	0.00	0.00
Palate Anomaly	0.01	0.051	47	0.007	0.00	0.00	0.35	0.00	0.00
Paw(s)- Hyperextension	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Paw(s)- Hyperflexion	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Pinna(e)- Malpositioned, Small or Absent	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Polydactyly	0.01	0.069	47	0.010	0.00	0.00	0.41	0.00	0.00
Spina Bifida	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Tail- Bent	0.16	0.374	47	0.055	0.00	0.00	2.14	0.00	0.27
Tail- Short	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Thoracogastroschisis	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Vertebral Agenesis	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
VISCERAL									
Adrenal Gland(s)- Absent	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Aortic Arch- Interrupted	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Aortic Arch- Retroesophageal	0.02	0.073	47	0.011	0.00	0.00	0.40	0.00	0.00
Aortic Arch- Right-Sided	0.01	0.072	47	0.010	0.00	0.00	0.41	0.00	0.00
Great Vessel(s)- Transposed	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Hydrocephaly	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Interventricular Septal Defect	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Intestine- Short	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Kidney(s) and/or Ureter(s) Absent	0.05	0.123	47	0.018	0.00	0.00	0.48	0.00	0.00
Kidney(s)- Fused	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Kidney(s)- Malpositioned	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Lung(s)- Lobular Agenesis	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Lung(s)- Lobular Dysgenesis	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Meningocele	0.01	0.046	47	0.007	0.00	0.00	0.32	0.00	0.00
Ovary(ies) and/or Oviduct(s)- Absent	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Persistent Truncus Arteriosus	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00

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Total No. Examined Externally	13000	1047								
Total No. Examined Viscerally	10850	1047								
Total No. Examined Skeletally	11260	1046								
MALFORMATIONS (% Per Litter)	Mean	S.D.	N	SEM	Median	Min	Max	25th Quartile	75th Quartile	
VISCERAL										
Pulmonary Trunk- Stenotic	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00	
Retina(s)- Folded	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00	
Uterus- Absent	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00	
Uterus- Portion Absent	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00	
SKELETAL										
Costal Cartilage Anomaly	0.07	0.171	47	0.025	0.00	0.00	0.67	0.00	0.00	
Ilium- Misshapen	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00	
Limb Bone(s)- Bent	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00	
Pubis- Bent	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00	
Rib Anomaly	0.05	0.225	47	0.033	0.00	0.00	1.30	0.00	0.00	
Rib(s)- 12 Pairs	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00	
Rib(s)- 15th Full	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00	
Rib(s)- 16th Rudimentary	0.01	0.063	47	0.009	0.00	0.00	0.43	0.00	0.00	
Skull Anomaly	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00	
Sternebra(e)- Fused	0.17	0.593	47	0.086	0.00	0.00	3.91	0.00	0.00	
Sternebra(e)- Malaligned (Severe)	0.28	0.479	47	0.070	0.00	0.00	2.13	0.00	0.31	
Sternoschisis	0.02	0.121	47	0.018	0.00	0.00	0.83	0.00	0.00	
Vertebral Anomaly with or without Associated Rib Anomaly	0.07	0.183	47	0.027	0.00	0.00	0.76	0.00	0.00	
Vertebral Centra Anomaly	0.01	0.101	47	0.015	0.00	0.00	0.69	0.00	0.00	

Mean of Study Means									
NO. OF DATASETS: 47	Fetuses	Litters							
Total No. Examined Externally	13000	1047							
Total No. Examined Viscerally	10850	1047							
Total No. Examined Skeletally	11260	1046							
VARIATIONS (% Per Litter)	Mean	S.D.	N	SEM	Median	Min	Max	25th Quartile	75th Quartile
TOTAL EXTERNAL VARIATIONS	0.04	0.173	47	0.025	0.00	0.00	1.06	0.00	0.00
TOTAL VISCERAL VARIATIONS	0.29	0.629	47	0.092	0.00	0.00	2.58	0.00	0.28
TOTAL SKELETAL VARIATIONS	58.83	11.970	47	1.746	61.63	25.82	76.84	55.63	65.77
TOTAL VARIATIONS	52.77	19.335	47	2.820	60.75	16.99	76.84	28.92	65.82
EXTERNAL									
Hindlimb Luxation	0.04	0.173	47	0.025	0.00	0.00	1.06	0.00	0.00
Tail- Fleshy Bulb	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Twinning	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
VISCERAL									
Blood Vessel(s), Major- Variation	0.02	0.089	47	0.013	0.00	0.00	0.42	0.00	0.00
Epididymis- Small	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Esophagus- Variation	0.04	0.304	47	0.044	0.00	0.00	2.08	0.00	0.00
Gallbladder- Absent or Small	0.01	0.049	47	0.007	0.00	0.00	0.33	0.00	0.00
Heart- Cyst(s)	0.01	0.060	47	0.009	0.00	0.00	0.41	0.00	0.00
Heart- Small	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Hemorrhagic Iris	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Hemorrhagic Ring Around the Iris	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Kidney(s)- Enlarged	0.01	0.056	47	0.008	0.00	0.00	0.38	0.00	0.00
Kidney(s)- Pale	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Kidney(s)- Small	0.03	0.145	47	0.021	0.00	0.00	0.87	0.00	0.00
Liver- Misshapen	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Liver- Pale	0.01	0.063	47	0.009	0.00	0.00	0.33	0.00	0.00
Lung(s)- Small	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Renal Papilla(e) not Developed and/or Distended Ureter(s)	0.05	0.332	47	0.048	0.00	0.00	2.27	0.00	0.00
Spleen- 2 Equal Portions	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Spleen- Accessory	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Spleen- Pale	0.10	0.325	47	0.047	0.00	0.00	1.79	0.00	0.00
Spleen- Small	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00

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NO. OF DATASETS: 47	Fetuses	Litters
Total No. Examined Externally	13000	1047
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VARIATIONS (% Per Litter)	Mean	S.D.	N	SEM	Median	Min	Max	25th Quartile	75th Quartile
VISCERAL									
Testis(es)- Small	0.01	0.040	47	0.006	0.00	0.00	0.27	0.00	0.00
SKELETAL									
Carpus Ossified	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Cervical Centrum #1 Ossified	0.01	0.076	47	0.011	0.00	0.00	0.52	0.00	0.00
Entire Sternum Unossified	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Extra Site of Ossification- Sternebra(e)	0.04	0.207	47	0.030	0.00	0.00	1.33	0.00	0.00
Extra Site of Ossification- Vertebra(e)	0.09	0.231	47	0.034	0.00	0.00	1.18	0.00	0.00
Hyoid- Unossified	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Irregular Ossification- Sternebra(e)	0.24	0.790	47	0.115	0.00	0.00	4.60	0.00	0.00
Reduced Ossification- 13th Rib(s)	0.02	0.079	47	0.012	0.00	0.00	0.43	0.00	0.00
Reduced Ossification- Cervical Arch(es)	0.06	0.305	47	0.044	0.00	0.00	1.67	0.00	0.00
Reduced Ossification- Entire Skeleton	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Reduced Ossification- Rib(s)	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Reduced Ossification- Skull	0.09	0.303	47	0.044	0.00	0.00	1.45	0.00	0.00
Reduced Ossification- Vertebral Arch(es)	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Rib(s)- 14th Full	16.74	7.127	47	1.040	17.72	1.35	32.63	12.45	21.01
Rib(s)- 14th Rudimentary	19.20	4.267	47	0.622	19.48	9.07	26.91	17.50	22.22
Rib(s)- 15th Rudimentary	0.09	0.634	47	0.093	0.00	0.00	4.35	0.00	0.00
Rib(s)- 7th Cervical	18.32	8.464	47	1.235	20.00	0.00	33.66	15.00	23.67
Rib(s)- Bent	0.01	0.085	47	0.012	0.00	0.00	0.58	0.00	0.00
Skull Bone(s)- Accessory	9.16	6.839	47	0.998	10.41	0.00	21.21	1.54	15.89
Sternebra(e) #1, #2, #3 and/or #4- Unossified	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Sternebra(e) #5 and/or #6- Unossified	0.09	0.264	47	0.038	0.00	0.00	1.47	0.00	0.00
Sternebra(e) #5 Circular Area- Unossified	0.01	0.055	47	0.008	0.00	0.00	0.38	0.00	0.00
Sternebra(e) #6 Circular Area- Unossified	0.00	0.000	47	0.000	0.00	0.00	0.00	0.00	0.00
Sternebra(e)- 7th	5.72	2.950	47	0.430	5.27	0.98	16.19	3.32	7.15
Sternebra(e)- Circular Area Unossified	0.08	0.203	47	0.030	0.00	0.00	0.87	0.00	0.00
Sternebra(e)- Malaligned (Slight or Moderate)	6.59	3.830	47	0.559	5.27	1.83	16.69	3.75	8.02
Sternebra(e) with Thread-Like Attachment	0.25	0.649	47	0.095	0.00	0.00	3.66	0.00	0.32

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Total No. Examined Externally	13000	1047									
Total No. Examined Viscerally	10850	1047									
Total No. Examined Skeletally	11260	1046									
VARIATIONS (% Per Litter)			Mean	S.D.	N	SEM	Median	Min	Max	25th Quartile	75th Quartile
SKELETAL											
Vertebra(e)- 25 Presacral			1.03	1.378	47	0.201	0.62	0.00	7.22	0.00	1.14
Vertebra(e)- 27 Presacral			0.36	0.564	47	0.082	0.00	0.00	2.27	0.00	0.38
Vertebral Centra Unossified			0.24	0.894	47	0.130	0.00	0.00	5.67	0.00	0.00

Modal Distribution of Fetal Body Weights

Number of Datasets in Historical Control

54

Range of Study Dates

13 Sep 1984 - 17 Sep 2016

Number of Dams with Fetal Body Weight Data

1229

Dams with Fetal Body Weight Data with Live Fetuses

1223

Mean Fetal Body Weight Range (g)

1.214 - 1.457

Mean Fetal Body Weight (g)	1.20 - 1.24	1.25 - 1.29	1.30 - 1.34	1.35 - 1.39	1.40 - 1.44	1.45 - 1.49
Total No. Datasets	1	6	26	13	7	1
Mean Litter Size	10.429	12.634	12.257	12.663	12.029	12.048
Litter Size Range	10.43 - 10.43	11.21 - 13.83	9.95 - 13.76	11.56 - 13.71	11.30 - 12.78	12.05 - 12.05

Summary Incidence Malformations and Variations

(Total Number Fetuses/Litters Affected)

Ranked Uppermost to Nethermost

NO. OF DATASETS: 47	Fetuses	Litters
Total No. Examined Externally	13000	1047
Total No. Examined Viscerally	10850	1047
Total No. Examined Skeletally	11260	1046

MALFORMATIONS	Number	
	Fetuses	Litters
EXTERNAL		
Carpal and/or Tarsal Flexure	23	20
Cleft Palate	47	36
Encephalomeningocele	1	1
Exencephaly with or without Open Eyelid(s)	8	7
Eyelid(s)- Open	8	7
Hindlimb(s)- Malrotated	1	1
Meningocele	2	2
Meningoencephalocele	1	1
Omphalocele	3	3
Palate Anomaly	1	1
Polydactyly	2	2
Tail- Bent	22	18
VISCERAL		
Aortic Arch- Retroesophageal	2	2
Aortic Arch- Right-Sided	2	2
Kidney(s) and/or Ureter(s) Absent	7	7
Meningocele	1	1
SKELETAL		
Costal Cartilage Anomaly	9	8
Rib Anomaly	5	3
Rib(s)- 16th Rudimentary	1	1
Sternebra(e)- Fused	18	9
Sternebra(e)- Malaligned (Severe)	30	28
Sternoschisis	2	1
Vertebral Anomaly with or without Associated Rib Anomaly	8	8
Vertebral Centra Anomaly	2	2

Summary Incidence Malformations and Variations

(Total Number Fetuses/Litters Affected)

Ranked Uppermost to Nethermost

NO. OF DATASETS: 47	Fetuses	Litters
Total No. Examined Externally	13000	1047
Total No. Examined Viscerally	10850	1047
Total No. Examined Skeletally	11260	1046

VARIATIONS	Number	
	Fetuses	Litters
EXTERNAL		
Hindlimb Luxation	6	5
VISCERAL		
Blood Vessel(s), Major- Variation	3	3
Esophagus- Variation	1	1
Gallbladder- Absent or Small	1	1
Heart- Cyst(s)	1	1
Kidney(s)- Enlarged	1	1
Kidney(s)- Small	3	3
Liver- Pale	2	2
Renal Papilla(e) not Developed and/or Distended Ureter(s)	1	1
Spleen- Pale	14	9
Testis(es)- Small	1	1
SKELETAL		
Cervical Centrum #1 Ossified	1	1
Extra Site of Ossification- Sternebra(e)	6	3
Extra Site of Ossification- Vertebra(e)	13	11
Irregular Ossification- Sternebra(e)	19	17
Reduced Ossification- 13th Rib(s)	2	2
Reduced Ossification- Cervical Arch(es)	4	2
Reduced Ossification- Skull	8	5
Rib(s)- 14th Full	1921	602
Rib(s)- 14th Rudimentary	2193	782
Rib(s)- 15th Rudimentary	10	1
Rib(s)- 7th Cervical	2215	656
Rib(s)- Bent	1	1
Skull Bone(s)- Accessory	1124	469

Summary Incidence Malformations and Variations

(Total Number Fetuses/Litters Affected)

Ranked Uppermost to Nethermost

NO. OF DATASETS: 47	Fetuses	Litters
Total No. Examined Externally	13000	1047
Total No. Examined Viscerally	10850	1047
Total No. Examined Skeletally	11260	1046

VARIATIONS	Number	
	Fetuses	Litters
SKELETAL		
Sternebra(e) #5 and/or #6- Unossified	8	8
Sternebra(e) #5 Circular Area- Unossified	1	1
Sternebra(e)- 7th	622	304
Sternebra(e)- Circular Area Unossified	10	9
Sternebra(e)- Malaligned (Slight or Moderate)	699	438
Sternebra(e) with Thread-Like Attachment	23	21
Vertebra(e)- 25 Presacral	120	72
Vertebra(e)- 27 Presacral	40	26
Vertebral Centra Unossified	26	16