

Table S1. Annotated survival and cause of death data for every mouse analyzed

Mouse ID	Treatment	RT Dose Received (Gy)	Survival from diagnosis (days)	Cause of death	Trigger for Euthanasia	Notes on Cause of Death
VE01	VEH	0	9	local	Mouse Moribund	Massive obstructing head tumor with duodenal and liver invasion with jaundice
VE02	VEH	0	1	local	Mouse Moribund	Local extension into liver causing obstruction
VE03	VEH	0	7	local	Mouse Moribund	Local extension into liver causing obstruction with jaundice
VE04	VEH	0	21	metastatic	Mouse Moribund	Five large embolic lung mets
VE05	VEH	0	9	local	Mouse Moribund	hepatic invasion causing ascites, jaundice
VE06	VEH	0	1	metastatic	Mouse Moribund	Widespread mets including CNS
VE07	VEH	0	1	metastatic	Mouse Moribund	Mets to gall bladder, liver and lung, jaundice
VE08	VEH	0	7	metastatic	Mouse Moribund	Peritoneal carcinomatosis, lung mets
VE09	VEH	0	27	unknown	Found dead	unknown, mouse found dead
VE10	VEH	0	10	unknown	Found dead	unknown, mouse found dead
VE11	VEH	0	39	metastatic	Mouse Moribund	carcinomatosis with kidney encasement
VE12	VEH	0	21	local	Mouse Moribund	Obstruction of duodenal bulb
VE13	VEH	0	37	local	Tumor size	18mm multicentric tumor obstructing invading into duodenum
VE14	VEH	0	7	local	Mouse Moribund	Invasion into stomach causing obstruction with ascites
VE15	VEH	0	7	local	Mouse Moribund	Hepatic invasion and bile duct obstruction, jaundice
VE16	VEH	0	6	local	Mouse Moribund	Jejunal invasion causing obstruction
VE17	VEH	0	6	local	Mouse Moribund	Local hepatic invasion causing ascites and jaundice
VE18	VEH	0	3	local	Mouse Moribund	Duodenum obstruction, met in the muscle wall
VE19	VEH	0	0	local	Mouse Moribund	Local invasion into liver with bile duct obstruction, jaundice
VE20	VEH	0	17	local	Tumor size	Massive obstructing tail tumor, invading stomach and jejunum
VE21	VEH	0	30	local	Mouse Moribund	Large tumor without evidence of mets
VE22	VEH	0	9	local	Mouse Moribund	Large tumor without evidence of mets
VE23	VEH	0	14	local	Tumor size	Two large body tumors combined width of 23 mm, euthanasia due to tumor size and local spread
VE24	VEH	0	22	local	Tumor size	Invasion into duodenum by massive obstructing head tumor
VE25	VEH	0	15	local	Mouse Moribund	Gastric invasion by massive tail tumor
VE26	VEH	0	15	local	Tumor size	21mm tumor in pancreatic tail
VE27	VEH	0	36	local	Mouse Moribund	Obstructing body tumor with gastric outlet obstruction
VE28	VEH	0	1	local	Tumor size	Local extension into liver hilum causing jaundice
FG01	FG-4592	0	13	local	Tumor size	Massive obstructing body tumor

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FG02	FG-4592	0	100	metastatic	Mouse Moribund	Widespread metastases
FG03	FG-4592	0	50	local	Mouse Moribund	Large tumor of pancreatic body with obstruction of duodenum and jaundice
FG04	FG-4592	0	24	local	Mouse Moribund	Massive obstructing body tumor
FG05	FG-4592	0	23	metastatic	Mouse Moribund	Widespread metastases
FG06	FG-4592	0	29	local	Mouse Moribund	Large obstructing body tumor with Gi invasion
FG07	FG-4592	0	44	metastatic	Mouse Moribund	Carcinomatosis, with lung mets
FG08	FG-4592	0	13	metastatic	Mouse Moribund	Carcinomatosis, with lung mets
FG09	FG-4592	0	15	local	Mouse Moribund	Duodenal and gastric invasion with complete obstruction
FG10	FG-4592	0	56	metastatic	Mouse Moribund	Carcinomatosis with kidneys and pancreas involved
FG11	FG-4592	0	30	local	Mouse Moribund	Complete duodenal obstruction and hepatic invasion with jaundice
VRT01	VEH + RT	10	7	local	Tumor size	Massive obstructing head tumor with 80-90% obstruction
VRT02	VEH + RT	10	5	local	Mouse Moribund	Internal peritoneal bleeding from tumor invading nearby blood vessel
VRT03	VEH + RT	35	16	local	Mouse Moribund	Large tumor obstructing duodenal bulb, with two small liver mets
VRT04	VEH + RT	50	42	local	Mouse Moribund	Tumor obstructing gastric antrum
VRT05	VEH + RT	70	23	metastatic	Mouse Moribund	Carcinomatosis with renal mets causing hydronephrosis
VRT06	VEH + RT	70	24	metastatic	Mouse Moribund	Embolic lung mets and a secondary tail tumor likely outside of RT field
VRT07	VEH + RT	75	27	RT TOX	Mouse Moribund	Widespread intraluminal hemorrhage observed
VRT08	VEH + RT	75	37	RT TOX	Mouse Moribund	Radiation enteritis with luminal bleeding observed
VRT09	VEH + RT	75	41	metastatic	Mouse Moribund	Several large central lung mets
VRT10	VEH + RT	75	36	RT TOX	Mouse Moribund	Intestinal edema and intraluminal bleeding
VRT11	VEH + RT	75	26	RT TOX	Mouse Moribund	Moribund, with GI Bleeding observed
VRT12	VEH + RT	75	40	local	Mouse Moribund	Obstructing tail tumor with gastric antrum invasion
VRT13	VEH + RT	75	37	RT TOX	Mouse Moribund	GI bleeding throughout small intestines, incidental thymus met
FRT01	FG + RT	10	8	metastatic	Mouse Moribund	Embolic lung mets
FRT02	FG + RT	15	9	local	Mouse Moribund	Duodenal obstruction, no other mets
FRT03	FG + RT	25	13	local	Mouse Moribund	Duodenal obstruction, no other mets
FRT04	FG + RT	25	12	local	Mouse Moribund	Gastric outlet obstruction, no other mets
FRT05	FG + RT	35	15	metastatic	Mouse Moribund	Widespread metastases: lung, liver and intrapancreatic mets
FRT06	FG + RT	45	15	local	Tumor Size	Tumor 17mm in size directly in-field meeting size criteria
FRT07	FG + RT	50	17	metastatic	Mouse Moribund	Widespread metastases, including lung and liver mets
FRT08	FG + RT	60	22	metastatic	Mouse Moribund	Diffuse peritoneal carcinomatosis without obstruction

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FRT09	FG + RT	60	19	local	Mouse Moribund	Duodenal obstruction no other mets
FRT10	FG + RT	65	23	local	Mouse Moribund	Gastric obstruction due to antral invasion, no other mets
FRT11	FG + RT	75	49	metastatic	Mouse Moribund	Peritoneal carcinomatosis causing hydronephrosis
FRT12	FG + RT	75	43	metastatic	Mouse Moribund	Large embolic lung mets
FRT13	FG + RT	75	50	metastatic	Mouse Moribund	Widespread peritoneal carcinomatosis involving the kidneys and liver. Solitary brain metastasis observed
FRT14	FG + RT	75	69	local	Mouse Moribund	Duodenal obstruction due to tumor progression. No GI bleeding
FRT15	FG + RT	75	42	metastatic	Mouse Moribund	No macromets, No GI bleed, Significant microscopic disease scattered throughout the lung and liver
FRT16	FG + RT	75	37	local	Tumor size	Duodenal invasion with severe obstruction (no digested matter or fecal matter), 4 small liver mets
FRT17	FG + RT	75	34	metastatic	Mouse Moribund	Carcinomatosis with probable malignant ascites, including implants on liver and pancreas
FRT18	FG + RT	75	45	local	Tumor size	Duodenal obstruction, growth directly in the RT field