

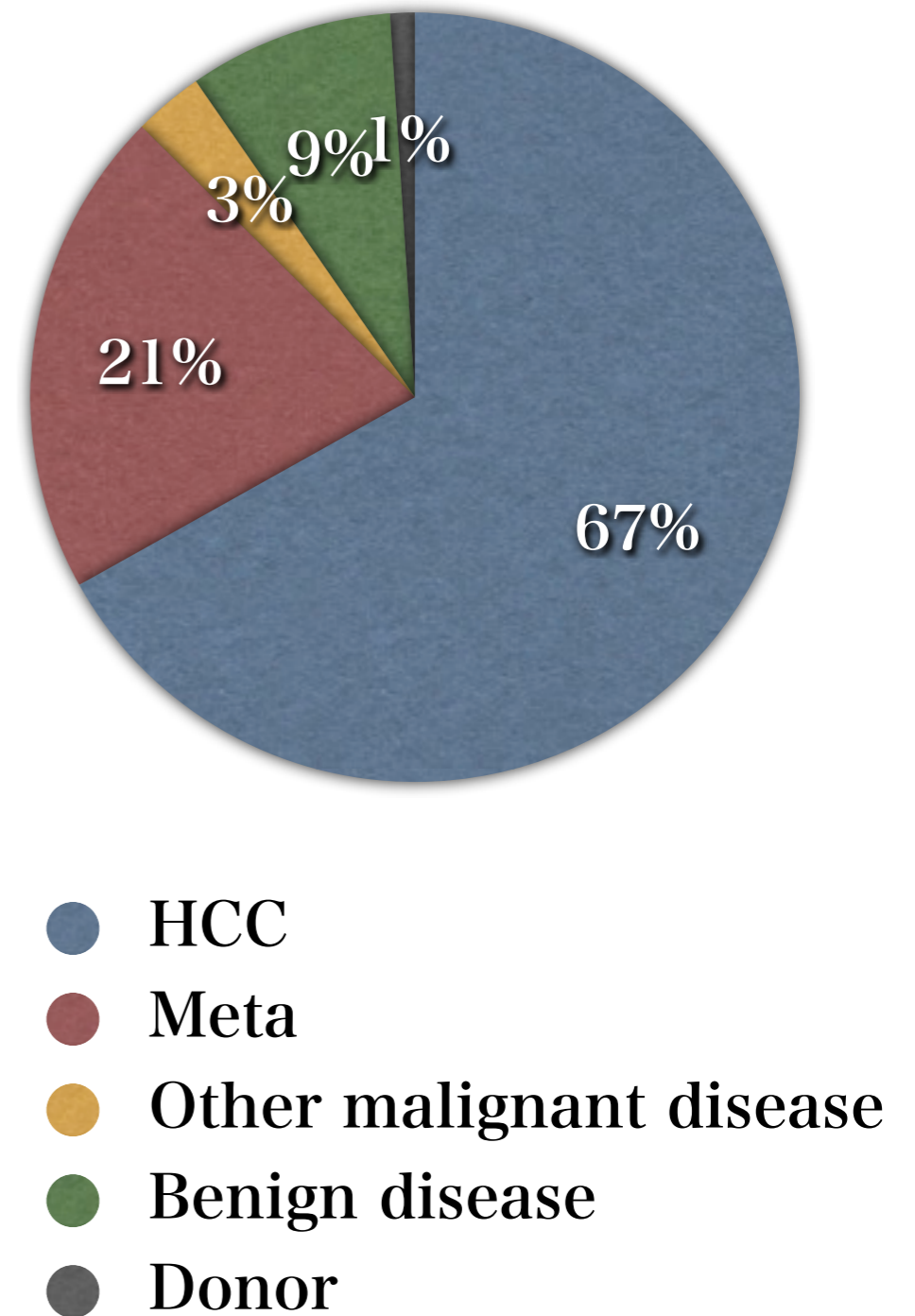
アンケート調査 結果報告

(～2008.12月 1057例)

疾患

HCC with LC	544
HCC without LC	163
Metastatic liver tumor	217
CCC	14
Other malignant disease	17
Hemangioma	26
Cyst	8
Other benign disease	57
Donor	11

Total 1057



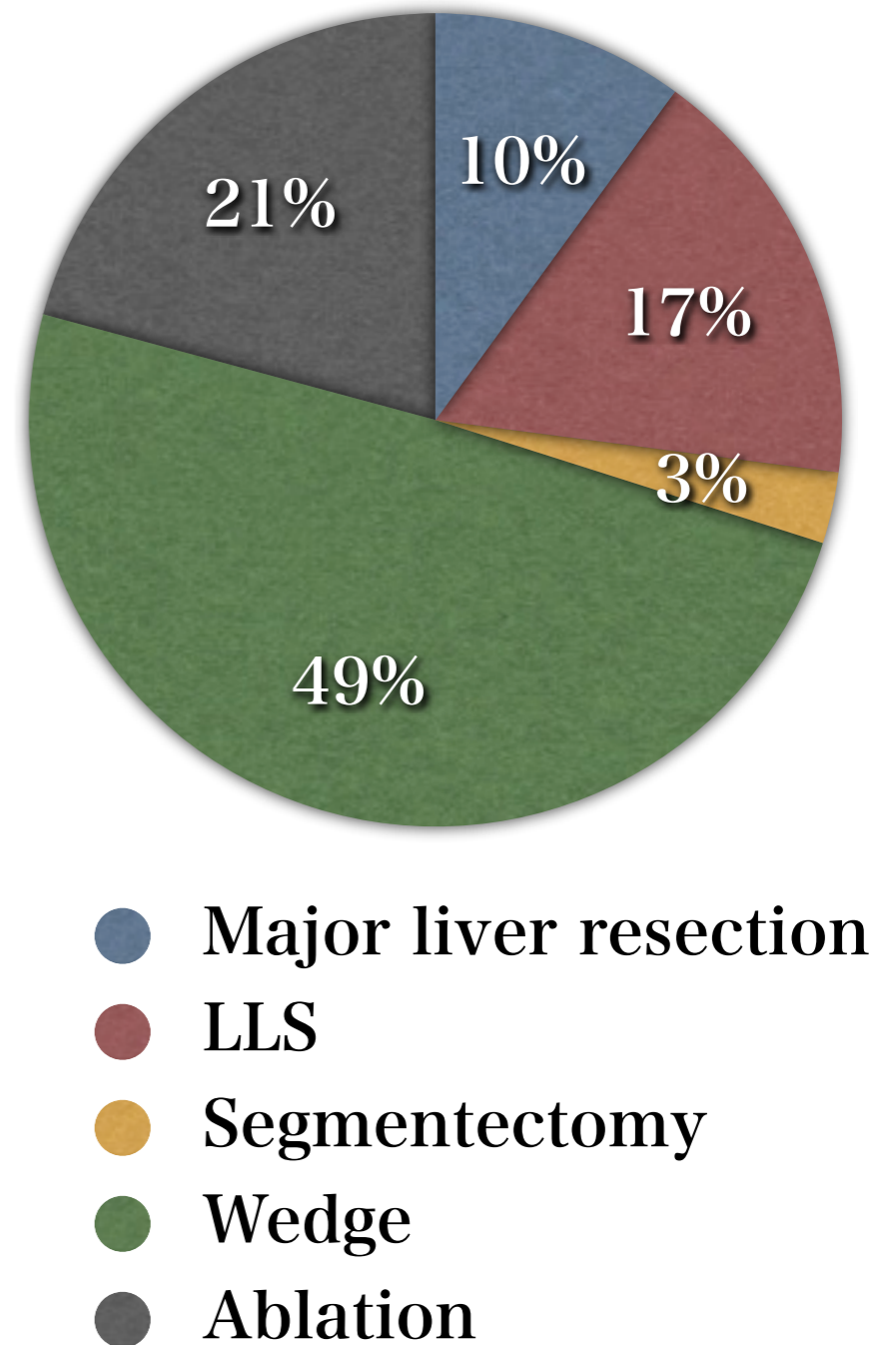
HCC; Hepatocellular carcinoma

LC; Liver cirrhosis

CCC; Cholangiocellular carcinoma

術式 (1)

Trisectionectomy	2
Extended hemihepatectomy	12
Hemihepatectomy	70
Sectionectomy	22
Left lateral sectionectomy (LLS)	180
Anatomical segmentectomy	30
Non anatomical wedge resection	521
RFA	152
MCT	68
Total	1057



Major liver resections included trisectionectomy, hemihepatectomy, and sectionectomy

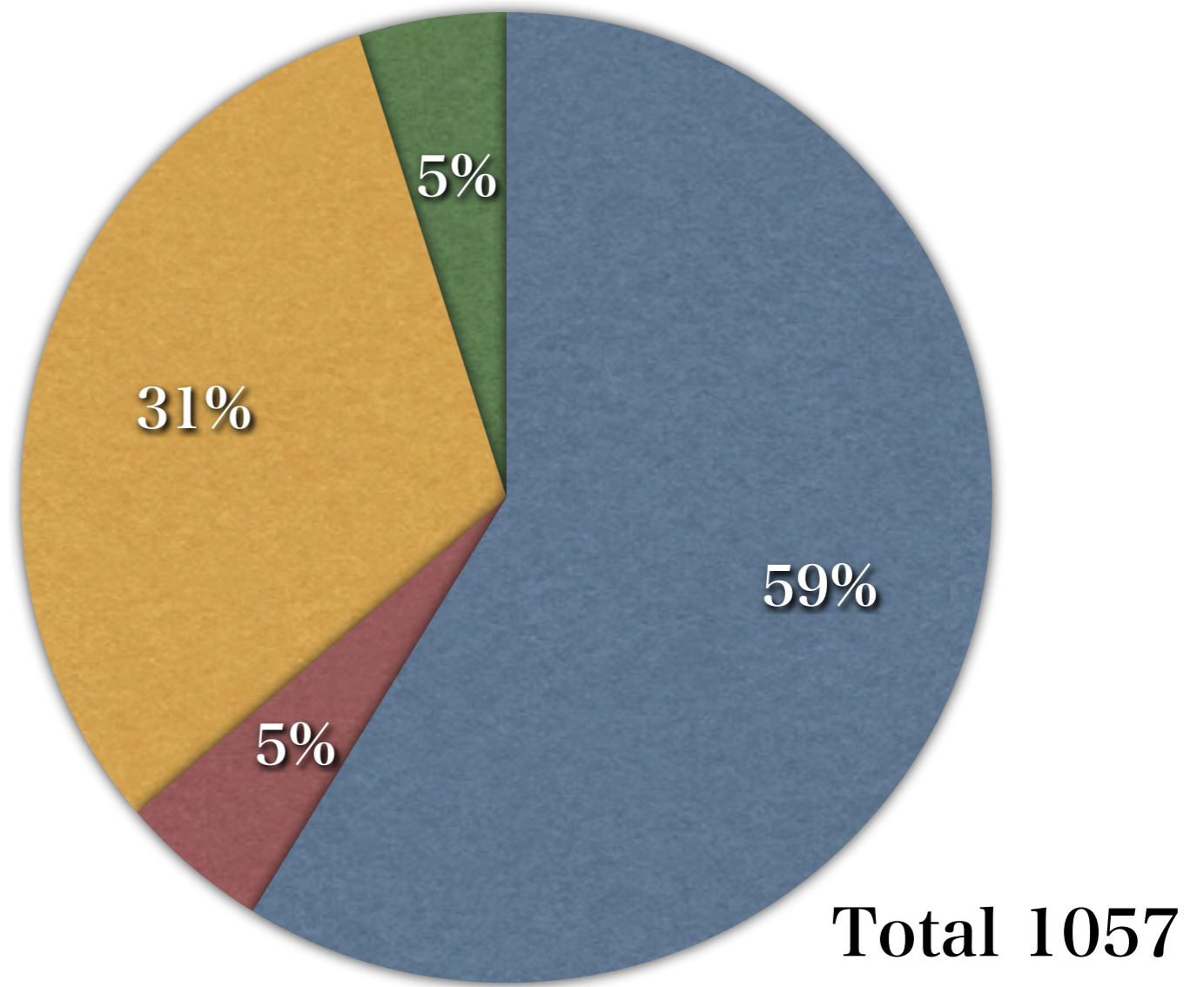
術式 (2)

Pure Lap
n=621

HALS
n=53

Lap-Assist
n=331

Thoraco
n=52



術式 (3)

Pure Lap n=621	Major liver resections	8
	Left lateral sectionectomy	87
	Anatomical segmentectomy	12
	Non anatomical wedge resection	359
	Ablation (RFA,MCT)	155

HALS n=53	Major liver resections	4
	Left lateral sectionectomy	6
	Anatomical segmentectomy	2
	Non anatomical wedge resection	36
	Ablation (RFA,MCT)	5

Lap-Assist n=331	Major liver resections	94
	Left lateral sectionectomy	87
	Anatomical segmentectomy	16
	Non anatomical wedge resection	122
	Ablation (RFA,MCT)	12

Thoraco n=52	Non anatomical wedge resection	4
	Ablation (RFA,MCT)	48

Major liver resections included trisectionectomy, hemihepatectomy, and sectionectomy

肝切除の手術成績 (1)

Conversion to open surgery	18	2.2%
Re-operation	0	-
Perioperative death	2	0.2%
Intraoperative accidents	14	1.7%
(Bleeding)	(11)	(1.3%)
(Injury to other organs)	(2)	(0.2%)
(Gas embolism)	(1)	(0.1%)
Postoperative complications	75	9.0%
(Bleeding)	(10)	(1.2%)
(Liver failure)	(3)	(0.4%)
(Bile leakage)	(14)	(1.7%)
(Pleural effusion)	(12)	(1.4%)
(Ascites)	(17)	(2.0%)
(Liver abscess)	(1)	(0.1%)
(Surgical site infection)	(12)	(1.4%)
(Pneumonia)	(1)	(0.1%)
(Gastrointestinal bleeding)	(2)	(0.2%)
(Hyper carbon dioxidemia)	(1)	(0.1%)
(Ileus)	(1)	(0.1%)
(ARDS)	(1)	(0.1%)

n=837

肝切除の手術成績 (2)

	Conversion	Intraoperative accident	Postoperative complication
Pure Lap n=466	12 (2.6%)	11 (2.4%)	31 (6.7%)
HALS n=48	0	0	6 (12.5%)
Lap-Assist n=319	5 (1.6%)	5 (1.6%)	36 (11.3%)
Thoraco n=4	0	0	3 (75%)

Total 837

肝切除の手術成績 (3)

	MLR n=106	LLS n=180	AS n=30	NAWR n=521
Conversion	0	5 2.8%	2 6.7%	12 2.3%
Complication	18 17.0%	14 7.8%	2 6.7%	38 7.3%
(Bleeding)	(1) (0.9%)	(3) (1.7%)	(0)	(5) (1.0%)
(Liver failure)	(2) (1.9%)	(0)	(1) (3.3%)	(0)
(Bile leakage)	(6) (5.7%)	(4) (2.2%)	(0)	(4) (0.8%)
(Pleural effusion)	(2) (1.9%)	(1) (0.6%)	(0)	(5) (1.0%)
(Ascites)	(0)	(2) (1.1%)	(1) (3.3%)	(14) (2.7%)
(Liver abscess)	(0)	(0)	(0)	(1) (0.2%)
(Surgical site infection)	(5) (4.7%)	(4) (2.2%)	(0)	(5) (1.0%)
(Pneumonia)	(1) (0.9%)	(0)	(0)	(0)
(Gastrointestinal bleeding)	(0)	(0)	(0)	(2) (0.4%)
(Hyper carbon dioxidemia)	(0)	(0)	(0)	(1) (0.2%)
(Ileus)	(0)	(0)	(0)	(0)
(ARDS)	(1) (0.9%)	(0)	(0)	(1) (0.2%)

n=837

MLR; Major liver resection, LLS; Left lateral sectionectomy, AS; Anatomical segmentectomy
NAWR; Non anatomical wedge resection

肝切除の手術成績 (4)

	HCC		Meta n=198
	LC(+) n=418	LC(-) n=151	
Conversion	13 3.1%	0	3 1.5%
Complication	40 9.6%	8 5.3%	15 7.6%
(Bleeding)	(5) (1.2%)	(3) (2.0%)	(1) (0.5%)
(Liver failure)	(1) (0.2%)	(0)	(1) (0.5%)
(Bile leakage)	(5) (1.2%)	(3) (2.0%)	(4) (2.0%)
(Pleural effusion)	(7) (1.7%)	(0)	(1) (0.5%)
(Ascites)	(13) (3.1%)	(2) (1.3%)	(0)
(Liver abscess)	(0)	(0)	(1) (0.5%)
(Surgical site infection)	(5) (1.2%)	(0)	(4) (2.0%)
(Pneumonia)	(1) (0.2%)	(0)	(0)
(Gastrointestinal bleeding)	(2) (0.5%)	(0)	(1) (0.5%)
(Hyper carbon dioxidemia)	(1) (0.2%)	(0)	(1) (0.5%)
(Ileus)	(0)	(0)	(1) (0.5%)

Ablationの手術成績

Conversion to open surgery	0	-
Re-operation	1	0.5%
Perioperative death	0	-
Intraoperative accidents	0	-
(Bleeding)	(0)	
(Injury to other organs)	(0)	
(Gas embolism)	(0)	
Postoperative complications	2	0.9%
(Bleeding)	(1)	(0.5%)
(Liver failure)	(0)	
(Bile leakage)	(0)	
(Pleural effusion)	(0)	
(Ascites)	(0)	
(Liver abscess)	(0)	
(Surgical site infection)	(1)	(0.5%)
(Pneumonia)	(0)	
(Gastrointestinal bleeding)	(0)	
(Hyper carbon dioxidemia)	(0)	

n=220

肝硬変合併肝細胞癌の部位別術式

	Wedge resection n=254	Ablation n=177
S1	0	5
S2	21	9
S3	72	28
S4	25	10
S5	34	20
S6	79	23
S7	13	20
S8	10	62

Surgical outcomes of HCC with LC

	MLR n=23	LLS n=69	AS n=19	NAWR n=256
Conversion	1 4.3%	3 4.3%	1 5.3%	8 3.1%
Complication	5 22%	7 10.1%	2 10.5%	29 11.3%
(Bleeding)	(0)	(1) (1.4%)	(0)	(4) (1.6%)
(Liver failure)	(0)	(0)	(1) (5.3%)	(0)
(Bile leakage)	(2) (8.7%)	(1) (1.4%)	(0)	(2) (0.8%)
(Pleural effusion)	(2) (8.7%)	(1) (1.4%)	(0)	(7) (2.7%)
(Ascites)	(0)	(2) (2.9%)	(1) (5.3%)	(10) (4.0%)
(Liver abscess)	(0)	(0)	(0)	(0)
(Surgical site infection)	(0)	(2) (2.9%)	(0)	(3) (1.2%)
(Pneumonia)	(1) (4.3%)	(0)	(0)	(0)
(Gastrointestinal bleeding)	(0)	(0)	(0)	(2) (0.8%)
(Hyper carbon dioxidemia)	(0)	(0)	(0)	(1) (0.4%)

n=368

MLR; Major liver resection, LLS; Left lateral sectionectomy, AS; Anatomical segmentectomy
NAWR; Non anatomical wedge resection

アンケート調査協力施設 32施設

愛知医科大学	外科	東京医科歯科大学	肝胆膵・総合外科
秋田大学	消化器外科	東京医科大学八王子医療センター	消化器外科
岩手医科大学	外科	東京慈恵医科大学	外科
永寿総合病院	外科	東京慈恵医科大学柏病院	外科
大分大学	第一外科	東京女子医科大学	消化器外科
大阪大学	消化器外科	東京大学	肝胆膵外科
大阪市立大学	肝胆膵外科	東邦大学	外科
北里大学	外科	東北大学	外科
京都大学	外科	徳島大学	消化器・移植外科
九州大学	消化器・総合外科	獨協医科大学	第二外科
熊本大学	消化器外科	長崎大学	移植・消化器外科
慶應義塾大学	外科	長野市民病院	外科
国立がんセンター東病院	上腹部外科	日本医科大学	外科
信州大学	消化器外科	広島大学	外科
聖マリアンナ医科大学	消化器・一般外科	北海道大学	第一外科
千葉県がんセンター	消化器外科	横山胃腸科病院	外科

(50音順)