

Assessment of the impact of COVID-19 pandemic on Liver Cancer Management (CERO-19)

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Table S1. Centres included in the study and Phone call service pre and post COVID-19-p

Continent	Country	Hospital	Pre-COVID-19-p		Post-COVID-19-p
			No. 1° Visits/yr 2019	P-CV	P-CV modification
America	Argentina	Hospital Dr. Carlos Bonorino Udaondo	15	Yes	No
		Hospital Alemán	40	No	No
		Hospital Italiano	40	Yes	No
		Hospital Universitario Austral	50	Yes	No
	Brazil	Clinionco	50	No	No
		Hospital do Servidor Publico Estadual de São Paulo	50	Yes	No
		AMO	50	Yes	Yes
		Federal University of Sergipe	50	No	No
		Hospital Federal de Bonsucesso	42	No	Yes
		Hospital de Clínicas de Porto Alegre	130	No	Yes
		Hospital das Clinicas da Universidade de Sao Paulo	70	Yes	Yes
		Hospital Federal dos Servidores do Estado	80	No	No

	Canada	Juravinski Cancer Centre, McMaster University	60	No	No
		University Health Network, Toronto General Hospital	208	Yes	Yes
	Chile	Pontificia Universidad Católica de Chile	40	No	No
	Mexico	National Institute of Medical Sciences and Nutrition Salvador Zubirán	30	No	Yes
	United States	UAMS Medical Center/ Winthrop P Rockefeller Cancer Institute	250	No	No
Europe	Austria	Klinikum Klagenfurt am Wörthersee	30	No	No
	Denmark	Aarhus University Hospital	235	No	No
	France	Hôpital Beaujon, Department of Digestive Oncology	370	No	No
		Groupement Hospitalier Lyon Nord	350	No	No
		Jean Verdier Hospital	50	No	No
	Germany	Charité- University medicine Berlin	150	Yes	Yes
		Goethe University Hospital	120	Yes	Yes
		University Medical Center Mainz	140	Yes	No
		University Medical Center Hamburg-Eppendorf	200	No	Yes
		University Hospital Düsseldorf	80	No	No
Italy	A Cardarelli Hospital	150	Yes	Yes	

		University Hospital of Modena and Reggio Emilia	90	No	No
		University of Naples Federico II	40	Yes	Yes
		San Gerardo Hospital	20	No	No
		Humanitas Clinical and Research Center-IRCCS	300	No	No
		S.Orsola-Malpighi Hospital, University of Bologna	60	No	Yes
		Gastroenterology and Digestive Endoscopy, Umberto Parini Hospital, Aosta	20	No	No
		University of Palermo	100	Yes	Yes
		IRCCS Ospedale San Raffaele	80	No	No
		Sapienza University of Rome, Polo Pontino	25	Yes	No
		S.Orsola-Malpighi Hospital	43	No	No
		University of Foggia	80	Yes	Yes
		Oncology and Gastroenterology Padua University Hospital	20	Yes	No
		University Hospital of Modena	190	No	No
	Romania	"Octavian Fodor" Institute for Gastroenterology and Hepatology	380	Yes	No
	Spain	Hospital Universitario Central de Asturias	150	Yes	Yes

		Hospital Universitario Ramón y Cajal	80	No	No
		Clínica Universidad de Navarra	80	Yes	No
		San Jorge General Hospital	12	Yes	No
		HGU Alicante	80	No	No
		Hospital Universitario Infanta Leonor	23	No	No
		Hospital Universitario Vall d'Hebron	150	Yes	Yes
		University Hospital Puerta de Hierro	80	Yes	No
		Hospital Universitario de Canarias	20	No	No
		Hospital de Mar	40	No	No
		University Hospital La Coruña	80	Yes	No
		Hospital Doctor Josep Trueta	55	Yes	No
		BCLC group. Hospital Clínic Barcelona	263	Yes	Yes
		Hospital Universitario Marqués de Valdecilla	50	Yes	No
		Instituto de Biomedicina de Sevilla- Hospital Virgen del Rocío-CIBERehd	50	Yes	Yes
		Parc Tauli Sabadell	36	No	No
		Institut Català d'Oncologia	35	No	Yes
		H.G.U. Gregorio Marañón	80	Yes	Yes
	Switzerland	Geneva University Hospitals	100	No	No

		Department of Visceral Surgery and Medicine	90	Yes	No
		Clinic of Medical Oncology and Hematology, University Hospital Zurich	70	No	No
	The Netherlands	University Medical Center Groningen	325	No	No
	United Kingdom	Beatson West of Scotland Cancer Centre / University of Glasgow	64	Yes	Yes
		Royal Free Hospital	250	Yes	No
		Newcastle Hospitals NHS Foundation Trust	260	No	Yes
		Nottingham University Hospitals NHS Trust	50	Yes	Yes
		University Hospitals Plymouth NHS Trust	70	Yes	No
		University of Cambridge and Cambridge University Hospitals NHS Foundation Trust	76	Yes	Yes
		Imperial College London	250	Yes	No
		University College of London	100	Yes	Yes
		Poland	Medical Univeristy of Warsaw	150	No
Asia	Japan	Ogaki Municipal Hospital	85	No	No
	Saudi Arabia	King Faisal Specialist Hospital & Research Center	300	Yes	Yes
Africa	Egypt	Faculty of Medicine, Helwan University	570	No	No

Table S2. Distribution of centres according to the pre-pandemic number of visits per year.

New patients-visit per year	n of centre (%)
<50	28 (36.8)
>50 – 150	31 (40.8)
>150 – 300	12 (15.8)
>300	5 (6.6)

Table S3. Distribution of the answers about clinical practice modification, diagnostic procedures and treatment possibility during COVID-19 pandemic in Europe (without Italy/Spain), Italy/Spain combined and Italy and Spain individually.

Survey query	Answer	Europe (n=56)	Europe without Italy and Spain (n=25)	Italy and Spain (n=31)	Italy (n=13)	Spain (n=18)
Have you modified your clinical practice due to the COVID19-pandemic?	No	7 (12.5)	6 (24)	1 (3.23)	0 (0)	1 (5.6)
	Yes	49 (87.5)	19 (76)	30 (96.8)	13 (100)	17 (94.4)
Have you modified the diagnostic procedures request and timing (biopsy and imaging technique) in the context of COVID19-pandemic?	No	33 (58.9)	17 (68)	16 (51.6)	7 (53.9)	9 (50)
	Yes	23 (41.1)	8 (32)	15 (48.4)	6 (46.1)	9 (50)
Have you modified the RM/CT scan strategy for liver cancer staging, tumor response evaluation?	No	36 (64.3)	18 (72)	18 (58.1)	9 (69.2)	9 (50)
	Yes	20 (35.7)	7 (28)	13 (41.9)	4 (30.8)	9 (50)
Have you had the possibility to perform liver cancer treatment during the COVID19-pandemic?	No	2 (3.6)	1 (4)	1 (3.2)	1 (7.7)	0 (0)
	Yes	54 (96.4)	24 (96)	30 (96.8)	12 (92.3)	18 (100)
If YES, which kind of treatment have you been able to perform? (multiple choice)	Loco-regional Treatment	43 (79.6)	22 (91.7)	21 (70)	10 (83.3)	11 (61.1)
	Percutaneous Treatment	37 (68.5)	19 (79.2)	18 (60)	9 (75)	9 (50)

	Resection	35 (64.8)	19 (79.2)	16 (53.3)	10 (83.3)	6 (33.3)
	Systemic Treatment	51 (94.4)	22 (91.7)	29 (96.7)	11 (91.7)	18 (100)
	Transplantation	16 (29.6)	9 (37.5)	7 (23.3)	4 (33.3)	3 (16.7)
	Others	12 (22.2)	9 (37.5)	3 (10)	1 (8.3)	2 (11.1)
Has the infection by COVID19 required to cancel curative/palliative treatments for liver cancer in some patients?	No	27 (50.9)	10 (45.5)	17 (54.8)	9 (69.2)	8 (44.4)
	Yes	26 (49.1)	12 (54.5)	14 (45.2)	4 (30.8)	10 (55.6)

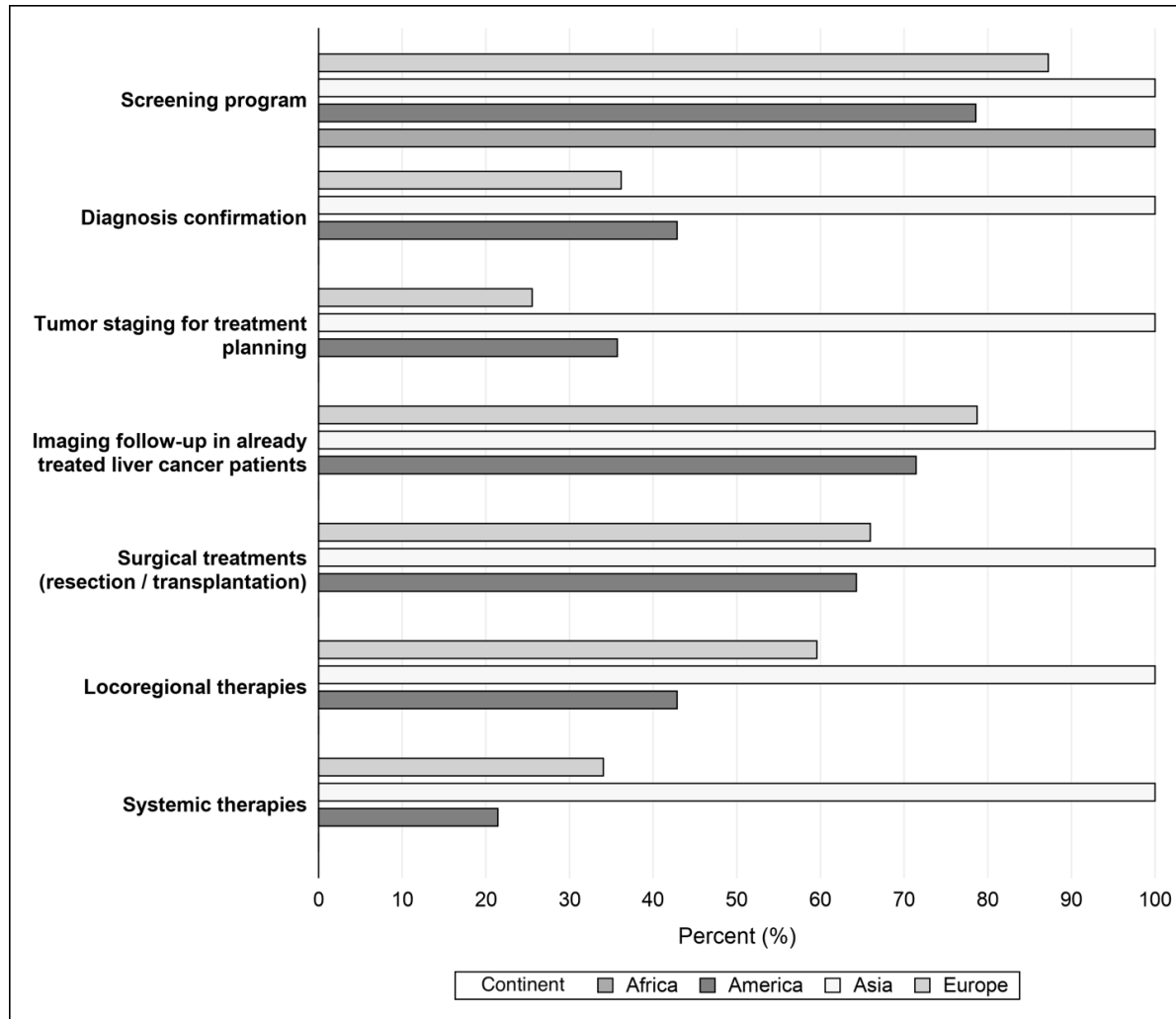


Fig. S1. Areas in which pre-pandemic clinical practices were modified expressed by continent and as percentages.

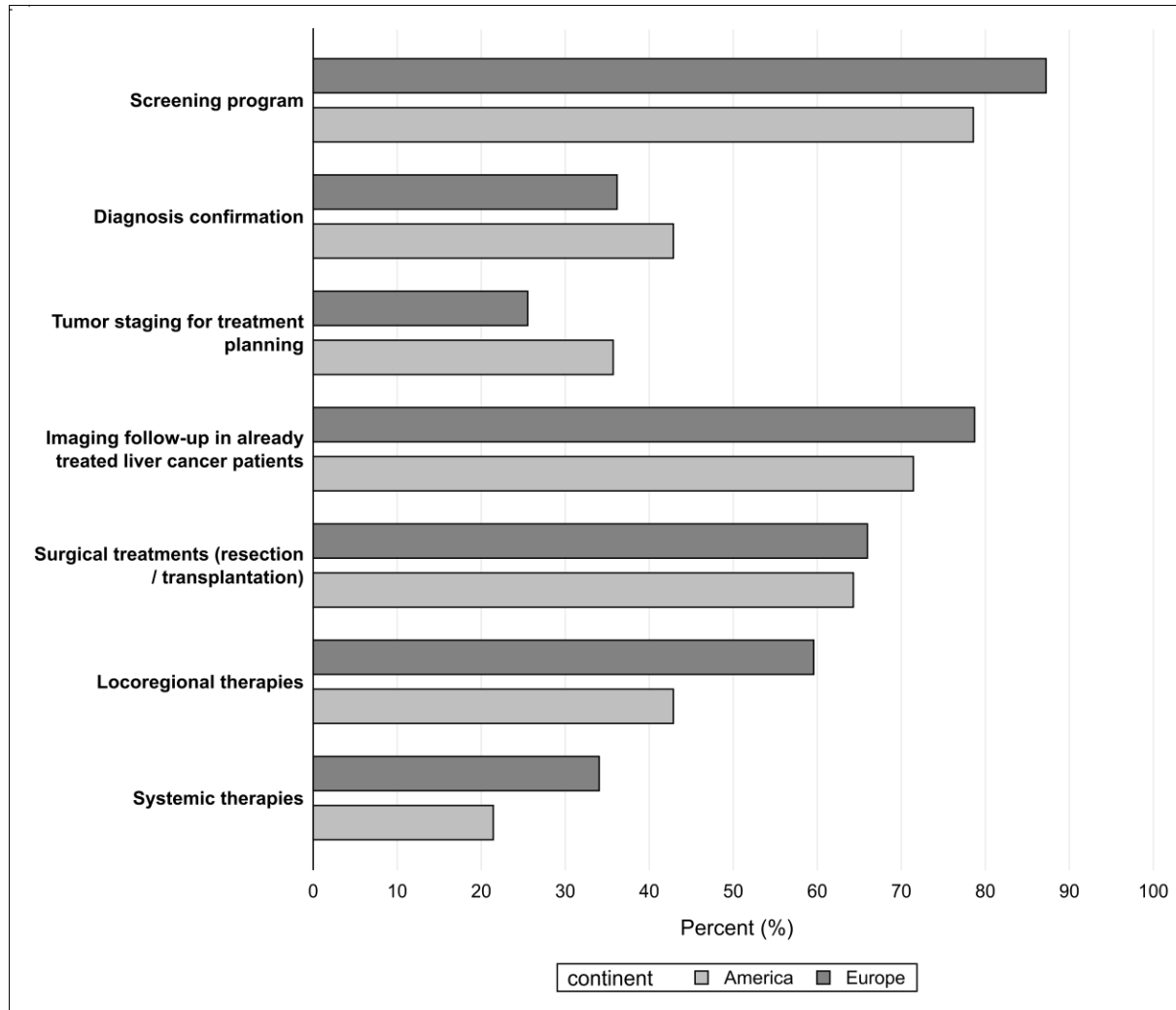


Fig. S2. Areas in which pre-pandemic clinical practices were modified expressed by continent and as percentages, Africa and Asia excluded due to underrepresentation.