

# **Epidemiological pattern, incidence, and outcomes of COVID-19 in liver transplant patients**

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**Table S1.** Calculation of standardized incidence ratio of coronavirus-19 disease during the Spanish epidemics from February 20, until April 7, 2020. Cumulative incidence of the general population was adjusted according to age and gender to match the liver transplant population.

\* As of April 7<sup>th</sup>, 2020, the Spanish Ministry of Health had confirmed 146,690 patients

		GENERAL POPULATION			LIVER TRANSPLANT POPULATION		
Population age interval (years old)	Gender	N	COVID-19 positive*	Crude cumulative incidence (x10 <sup>5</sup> people)	N	COVID-19 positive*	Crude cumulative incidence (x10 <sup>5</sup> people)
0-19	Men	4,772,317	602	12.61	313	1	319.48
	Women	4,481,988	625	13.94	285	0	0
20-39	Men	5,540,648	8,497	153.36	310	0	0
	Women	5,474,878	13,307	243.05	280	1	357.14
40-49	Men	3,943,490	10,105	256.24	479	3	626.30
	Women	3,869,686	12,173	314.57	333	4	1,201.20
50-59	Men	3,457,353	12,818	370.74	2,373	8	337.12
	Women	3,516,656	14,620	415.73	693	2	288.60
60-69	Men	2,543,236	13,398	526.80	3,601	40	1,110.80
	Women	2,738,641	11,387	415.79	1,029	13	1,263.36
70+	Men	3,357,068	25,693	765.34	2,432	27	1,110.20
	Women	4,944,814	23,465	474.54	1,127	12	1,064.77
<b>Overall</b>		47,026,208	146,690	311.93	13,255	111	837.41
<b>STANDARDIZED INCIDENCE RATIO (95% CONFIDENCE INTERVAL)</b>				<b>Observed 280,501; Expected 146,690 191.22 (95%CI 190.28-192.16)</b>			

diagnosed with Covid-19, but data on age and gender were available in 100,424 cases (68.5%). To estimate the true adjusted rates in the general population, age and gender distribution was inferred to the total number of confirmed cases.

**Table S2.** Calculation of standardized mortality ratio of coronavirus-19 disease during the Spanish epidemics from February 20, until April 7, 2020. Cumulative incidence of the general population was adjusted according to age and gender to match the liver transplant population.

		GENERAL POPULATION			LIVER TRANSPLANT POPULATION		
Population age interval (years old)	Gender	COVID-19 positive*	Number of deaths	Crude mortality rates (%)	COVID-19 positive	Number of deaths	Crude mortality rates (%)
0-19	Men	602	3	0.50	1	0	0
	Women	625	5	0.80	0	0	0
20-39	Men	8,497	69	0.81	0	0	0
	Women	13,307	55	0.41	1	0	0
40-49	Men	10,105	153	1.51	3	0	0
	Women	12,173	84	0.69	4	0	0
50-59	Men	12,818	461	3.59	8	0	0
	Women	14,620	206	1.41	2	0	0
60-69	Men	13,398	1,355	10.11	40	5	12.5
	Women	11,387	569	4.99	13	3	23.08
70+	Men	25,693	10,864	42.28	27	7	25.93
	Women	23,465	7,893	33.63	12	5	41.67
<b>Overall</b>		146,690	21,717	14.80	111	20	18.01
<b>STANDARDIZED MORTALITY RATIO (95% CONFIDENCE INTERVAL)</b>				<b>Observed 20,741; Expected 21,707 95.55 (95%CI 94.25-96.85)</b>			

\* As of April 7<sup>th</sup>, 2020, the Spanish Ministry of Health had confirmed 146,690 patients diagnosed with Covid-19, but data on age and gender were available in 100,424 cases (68.5%). To estimate the true adjusted rates in the general population, age and gender distribution was inferred to the total number of confirmed cases. Data regarding mortality was obtained on April 21<sup>st</sup>, 2020, aligning with the follow-up closing of the SETH registry.