

Table S1: Numbers and age standardized rates of deaths and DALYs globally and in five Socio-demographic Index (SDI) strata from 1990 to 2021.

Global					High SDI					Low SDI					High vs 44th SDI					Mid vs 44th SDI					Low vs 44th SDI																								
Year	Deaths number	ASMR	DALYs number	ASDR	Deaths number	ASMR	DALYs number	ASDR	Deaths number	ASMR	DALYs number	ASDR	Deaths number	ASMR	DALYs number	ASDR	Deaths number	ASMR	DALYs number	ASDR	Deaths number	ASMR	DALYs number	ASDR	Deaths number	ASMR	DALYs number	ASDR																					
1990	9971.79	0.24	401671.32	8.88	3033.32	0.29	105279.22	10.29	336.81	0.12	13867.01	4.45	3952.61	0.39	168384.71	15.87	1748.85	0.14	75787.96	5.41	879.34	0.12	37546.82	4.46	1990	9971.79	0.24	401671.32	8.88	3033.32	0.29	105279.22	10.29	336.81	0.12	13867.01	4.45	3952.61	0.39	168384.71	15.87	1748.85	0.14	75787.96	5.41	879.34	0.12	37546.82	4.46
1991	10204.01	0.24	415058.79	8.97	3077.49	0.29	107532.97	10.35	343.14	0.12	14223.73	4.46	4009.56	0.39	175227.72	16.18	1814.74	0.14	78070.25	5.46	915.55	0.12	39060.09	4.53	1991	10204.01	0.24	415058.79	8.97	3077.49	0.29	107532.97	10.35	343.14	0.12	14223.73	4.46	4009.56	0.39	175227.72	16.18	1814.74	0.14	78070.25	5.46	915.55	0.12	39060.09	4.53
1992	10748.75	0.24	436817.54	9.21	3119.06	0.28	108561.52	10.30	354.28	0.12	14617.89	4.48	4461.79	0.42	191066.74	17.23	1876.90	0.14	81105.35	5.48	955.85	0.12	40577.00	4.60	1992	10748.75	0.24	436817.54	9.21	3119.06	0.28	108561.52	10.30	354.28	0.12	14617.89	4.48	4461.79	0.42	191066.74	17.23	1876.90	0.14	81105.35	5.48	955.85	0.12	40577.00	4.60
1993	11429.37	0.25	466125.60	9.60	3160.44	0.28	109383.75	10.22	363.88	0.12	15031.80	4.50	4961.68	0.46	215318.34	19.02	1940.03	0.14	83838.31	5.51	980.15	0.12	41655.12	4.62	1993	11429.37	0.25	466125.60	9.60	3160.44	0.28	109383.75	10.22	363.88	0.12	15031.80	4.50	4961.68	0.46	215318.34	19.02	1940.03	0.14	83838.31	5.51	980.15	0.12	41655.12	4.62
1994	12065.14	0.26	493932.99	9.93	3225.96	0.28	111559.14	10.27	373.15	0.12	15408.47	4.51	5445.43	0.49	237115.94	20.52	1992.45	0.14	87943.71	5.51	1005.54	0.12	42611.51	4.61	1994	12065.14	0.26	493932.99	9.93	3225.96	0.28	111559.14	10.27	373.15	0.12	15408.47	4.51	5445.43	0.49	237115.94	20.52	1992.45	0.14	87943.71	5.51	1005.54	0.12	42611.51	4.61
1995	12286.45	0.26	502267.45	9.89	3280.78	0.29	113612.71	10.30	379.00	0.12	15651.94	4.49	5500.17	0.48	239966.86	20.37	2051.95	0.14	88364.30	5.53	1031.53	0.12	43675.62	4.63	1995	12286.45	0.26	502267.45	9.89	3280.78	0.29	113612.71	10.30	379.00	0.12	15651.94	4.49	5500.17	0.48	239966.86	20.37	2051.95	0.14	88364.30	5.53	1031.53	0.12	43675.62	4.63
1996	12242.93	0.25	499050.68	9.63	3316.49	0.28	113487.08	10.13	383.83	0.12	15961.81	4.47	5389.49	0.46	235186.71	19.58	2078.49	0.14	88911.13	5.45	1047.34	0.12	44291.36	4.58	1996	12242.93	0.25	499050.68	9.63	3316.49	0.28	113487.08	10.13	383.83	0.12	15961.81	4.47	5389.49	0.46	235186.71	19.58	2078.49	0.14	88911.13	5.45	1047.34	0.12	44291.36	4.58
1997	12111.22	0.25	491733.08	9.30	3318.09	0.28	113068.48	9.94	393.13	0.12	16271.15	4.44	5251.43	0.44	227591.93	18.62	2084.57	0.14	88859.51	5.32	1057.98	0.12	44816.55	4.52	1997	12111.22	0.25	491733.08	9.30	3318.09	0.28	113068.48	9.94	393.13	0.12	16271.15	4.44	5251.43	0.44	227591.93	18.62	2084.57	0.14	88859.51	5.32	1057.98	0.12	44816.55	4.52
1998	12302.72	0.24	496102.81	9.20	3420.33	0.28	114510.18	10.06	400.93	0.12	16610.89	4.41	5262.41	0.43	226559.43	18.21	2109.52	0.14	89775.66	5.24	1083.27	0.12	46033.67	4.52	1998	12302.72	0.24	496102.81	9.20	3420.33	0.28	114510.18	10.06	400.93	0.12	16610.89	4.41	5262.41	0.43	226559.43	18.21	2109.52	0.14	89775.66	5.24	1083.27	0.12	46033.67	4.52
1999	12699.82	0.25	510202.03	9.33	3517.94	0.28	119456.28	10.21	407.62	0.12	16979.07	4.39	5508.61	0.45	239646.11	18.89	2140.55	0.14	90892.40	5.21	1100.98	0.12	47132.30	4.50	1999	12699.82	0.25	510202.03	9.33	3517.94	0.28	119456.28	10.21	407.62	0.12	16979.07	4.39	5508.61	0.45	239646.11	18.89	2140.55	0.14	90892.40	5.21	1100.98	0.12	47132.30	4.50
2000	13274.55	0.25	538682.50	9.55	3581.95	0.28	121289.26	10.21	418.39	0.12	17422.83	4.39	5891.41	0.47	256452.61	19.83	2218.81	0.14	93914.10	5.21	1141.19	0.12	48712.47	4.54	2000	13274.55	0.25	538682.50	9.55	3581.95	0.28	121289.26	10.21	418.39	0.12	17422.83	4.39	5891.41	0.47	256452.61	19.83	2218.81	0.14	93914.10	5.21	1141.19	0.12	48712.47	4.54
2001	13837.69	0.26	559975.34	9.74	3640.04	0.28	125411.08	10.15	426.85	0.12	17746.52	4.37	6251.92	0.48	271566.62	20.62	2300.85	0.14	96847.95	5.25	1184.34	0.12	50486.59	4.60	2001	13837.69	0.26	559975.34	9.74	3640.04	0.28	125411.08	10.15	426.85	0.12	17746.52	4.37	6251.92	0.48	271566.62	20.62	2300.85	0.14	96847.95	5.25	1184.34	0.12	50486.59	4.60
2002	14355.89	0.26	579663.91	9.84	3666.00	0.28	124970.32	9.96	435.90	0.12	18096.23	4.35	6593.73	0.50	286070.68	21.36	2385.34	0.14	99787.48	5.29	1229.99	0.12	52222.40	4.65	2002	14355.89	0.26	579663.91	9.84	3666.00	0.28	124970.32	9.96	435.90	0.12	18096.23	4.35	6593.73	0.50	286070.68	21.36	2385.34	0.14	99787.48	5.29	1229.99	0.12	52222.40	4.65
2003	14890.21	0.26	609455.59	9.99	3704.88	0.28	121891.72	9.78	451.48	0.12	18720.47	4.38	6939.84	0.52	301534.81	22.15	2477.64	0.14	103059.22	5.34	1284.76	0.12	54406.20	4.75	2003	14890.21	0.26	609455.59	9.99	3704.88	0.28	121891.72	9.78	451.48	0.12	18720.47	4.38	6939.84	0.52	301534.81	22.15	2477.64	0.14	103059.22	5.34	1284.76	0.12	54406.20	4.75
2004	15355.32	0.26	619574.21	10.07	3739.18	0.28	124548.08	9.69	470.96	0.12	19565.91	4.45	7160.20	0.53	312383.47	22.58	2576.86	0.14	106751.05	5.41	1361.90	0.13	57470.30	4.88	2004	15355.32	0.26	619574.21	10.07	3739.18	0.28	124548.08	9.69	470.96	0.12	19565.91	4.45	7160.20	0.53	312383.47	22.58	2576.86	0.14	106751.05	5.41	1361.90	0.13	57470.30	4.88
2005	16056.88	0.27	647233.88	10.30	3818.72	0.28	124298.72	9.68	490.52	0.12	20400.53	4.51	7630.68	0.55	331750.26	23.60	2670.72	0.15	109979.57	5.45	1419.41	0.13	59930.99	4.96	2005	16056.88	0.27	647233.88	10.30	3818.72	0.28	124298.72	9.68	490.52	0.12	20400.53	4.51	7630.68	0.55	331750.26	23.60	2670.72	0.15	109979.57	5.45	1419.41	0.13	59930.99	4.96
2006	16142.29	0.26	649012.31	10.11	3875.48	0.27	125335.35	9.63	516.04	0.13	21472.96	4.60	7467.30	0.53	334531.67	22.76	2748.44	0.15	111895.70	5.46	1508.32	0.13	63621.20	5.13	2006	16142.29	0.26	649012.31	10.11	3875.48	0.27	125335.35	9.63	516.04	0.13	21472.96	4.60	7467.30	0.53	334531.67	22.76	2748.44	0.15	111895.70	5.46	1508.32	0.13	63621.20	5.13
2007	16496.02	0.26	660972.65	10.09	3921.56	0.27	126637.87	9.58	540.20	0.13	22923.27	4.75	7487.44	0.52	334212.51	22.42	2882.54	0.15	117954.84	5.57	1627.87	0.14	65284.54	5.38	2007	16496.02	0.26	660972.65	10.09	3921.56	0.27	126637.87	9.58	540.20	0.13	22923.27	4.75	7487.44	0.52	334212.51	22.42	2882.54	0.15	117954.84	5.57	1627.87	0.14	65284.54	5.38
2008	16945.00	0.27	675675.39	10.10	3992.90	0.27	128217.56	9.55	580.88	0.13	24228.94	4.87	7586.45	0.52	336023.34	22.21	3031.53	0.15	123238.53	5.69	1745.44	0.15	72798.86	5.61	2008	16945.00	0.27	675675.39	10.10	3992.90	0.27	128217.56	9.55	580.88	0.13	24228.94	4.87	7586.45	0.52	336023.34	22.21	3031.53	0.15	123238.53	5.69	1745.44	0.15	72798.86	5.61
2009	17115.55	0.26	677819.82	9.92	3999.48	0.27	127544.86	9.35	615.86	0.14	25628.64	5.01	7393.31	0.50	315596.43	21.18	3201.57	0.16	126566.92	5.85	1877.54	0.15	78084.32	5.88	2009	17115.55	0.26	677819.82	9.92	3999.48	0.27	127544.86	9.35	615.86	0.14	25628.64	5.01	7393.31	0.50	315596.43	21.18	3201.57	0.16	126566.92	5.85	1877.54	0.15	78084.32	5.88
2010	17397.72	0.26	682882.93	9.84	3965.07	0.26	125838.94	9.07	633.04	0.14	27116.60	5.15	7279.98	0.49	312801.67	20.48	3369.70	0.16	132621.67	5.99	2002.74	0.16	82540.48	6.11	2010	17397.72	0.26	682882.93	9.84	3965.07	0.26	125838.94	9.07	633.04	0.14	27116.60	5.15	7279.98	0.49	312801.67	20.48	3369.70	0.16	132621.67	5.99	2002.74	0.16	82540.48	6.11
2011	17294.05	0.25	678492.23	9.54	3934.38	0.25	124161.67	8.82	689.66	0.14	28621.47	5.27	7051.81	0.46	297444.87	19.41	3482.67																																

[illegible]

Table S5: The global changes in number, percent, and rate of deaths and disability-adjusted life-years (DALYs) for pancreatitis attributed to alcohol by age group between 1990 and 2021.

Age	Deaths									DAYs								
	number			percent			rate			number			percent			rate		
	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female
15 to 19	5.01	5.57	-0.56	0.01	0.01	0	0	0	0	329.73	381.25	-51.51	0.01	0.01	0	-0.04	-0.03	-0.06
20 to 24	40.27	40.55	-0.28	0.02	0.03	0	0	0	0	2709.07	2747.09	-38.02	0.02	0.02	0	0.01	0.09	-0.12
25 to 29	163.37	163.32	0.05	0.03	0.03	0	0.01	0.02	0	10158.2	10199.28	-41.08	0.02	0.03	0	0.32	0.81	-0.25
30 to 34	332.92	324.26	8.66	0.03	0.02	0	0	0	0	19495.67	19008.41	487.26	0.02	0.03	0	-0.41	-0.42	-0.36
35 to 39	537.27	520.1	17.17	0.02	0.02	0	0	0.02	0	29017.72	28095.45	922.27	0.02	0.02	0	-0.13	0.29	-0.41
40 to 44	775.04	748.55	26.51	0.03	0.03	0	0.02	0.05	-0.01	38289.41	36925.34	1364.07	0.02	0.02	0	0.34	1.76	-0.73
45 to 49	971.31	913.71	57.59	0.02	0.03	0	0	0.01	-0.01	44289.21	41509.88	2779.32	0.01	0.02	0	-0.75	-0.21	-0.83
50 to 54	712.87	681.24	31.64	0.02	0.01	-0.01	-0.08	-0.11	-0.04	28577.96	27534.62	1343.33	0.02	0.02	-0.01	-4.27	-6.12	-1.98
55 to 59	972.33	907.81	64.52	0.02	0.02	0	-0.03	-0.02	-0.04	35088.37	32512.96	2575.4	0.02	0.02	-0.01	-2.19	-2.06	-1.75
60 to 64	799.83	760.32	39.51	0.02	0.02	-0.02	-0.06	-0.03	-0.02	25300.01	23771.17	1528.84	0.01	0.02	-0.01	-2.38	-2.05	-2.51
65 to 69	-704	-620.66	-83.34	-0.04	-0.02	0	2.2	3.77	1.86	22712.35	21454.18	1258.16	0	0.01	-0.01	-2.46	-2.59	-3.05
70 to 74	857.3	784.89	72.41	0.01	0.02	-0.01	-0.07	-0.04	-0.13	19199.65	17364.04	1835.61	0.01	0.02	-0.01	-1.45	-1.18	-2.75
75 to 79	454.28	460.21	-5.93	-0.01	-0.01	-0.02	-0.26	-0.39	-0.28	7954.88	7936.33	18.54	-0.01	-0.01	-0.02	-4.68	-7.12	-4.69
80 to 84	428.55	388.74	39.82	-0.01	-0.01	-0.02	-0.27	-0.37	-0.32	5867.48	5262.57	604.92	-0.01	-0.01	-0.02	-3.6	-5.08	-4.1
85 to 89	456.22	365.53	90.69	0	0	-0.01	-0.19	-0.13	-0.36	4798.93	3832.17	966.76	-0.01	0	-0.01	-2	-1.57	-3.79
90 to 94	305.94	194.77	111.17	-0.01	0.01	-0.01	-0.02	0.25	-0.26	2770.29	1766.72	1003.57	0	0.01	-0.02	-0.17	2.2	-2.34
95 plus	1668.73	1480.47	188.25	0.05	0.05	-0.03	-1.94	-3.28	-1.77	1104.79	537.57	567.22	0	0.01	-0.01	2.65	4.37	1.34

Note: Data on alcohol-attributable pancreatitis in the 0-14 age group are not available in the Global Burden of Disease (GBD) database.
Value = Value (2021)-Value (1990)

Table S6: Socio-demographic Index (SDI), age-standardised mortality rate (ASMR), and age-standardised DALY rate (ASDR) for pancreatitis attributed to alcohol globally and across 21 GBD regions from 1990 to 2023.

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500
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Table S7: Age-standardized mortality rate (ASMR) and age-standardized DALY rate (ASDR) with 95% Uncertainty Intervals of pancreatitis attributed to alcohol for 204 countries in 2021, and their percentage changes from 1990 to 2021.

	ASMR in 2021	ASDR in 2021	ASMR Percentage changes,1990–2021	ASDR Percentage changes,1990–2021
Afghanistan	0 (0, 0)	0.02 (0, 0.06)	NA	NA
Albania	0.1 (0.05, 0.17)	4.37 (2.37, 6.74)	110.05%	113.00%
Algeria	0.01 (0, 0.02)	0.33 (0.18, 0.56)	121.50%	98.00%
American Samoa	0.01 (-0.01, 0.04)	0.54 (-0.34, 1.92)	-2.86%	-1.00%
Andorra	0.19 (0.1, 0.29)	5.52 (3.14, 8.18)	-42.32%	-41.00%
Angola	0.19 (0.1, 0.33)	6.82 (3.73, 11.94)	125.14%	122.00%
Antigua and Barbuda	0.14 (0.08, 0.2)	5.04 (3.22, 7.07)	107.25%	92.00%
Argentina	0.37 (0.23, 0.53)	11.79 (7.63, 16.6)	-55.47%	-55.00%
Armenia	0.1 (0.06, 0.15)	4.65 (2.86, 6.81)	144.84%	95.00%
Australia	0.17 (0.11, 0.24)	5.35 (3.76, 7.1)	-27.49%	-29.00%
Austria	0.21 (0.14, 0.29)	7.64 (5.17, 10.52)	-55.81%	-56.00%
Azerbaijan	0.16 (0.09, 0.26)	7.62 (4.26, 12.19)	-9.83%	-7.00%
Bahamas	0.27 (0.12, 0.47)	10.86 (5.22, 18.13)	-44.11%	-44.00%
Bahrain	0.02 (0.01, 0.04)	0.7 (0.4, 1.11)	-56.26%	-53.00%
Bangladesh	0.02 (0, 0.05)	0.85 (0.01, 2.14)	556.15%	577.00%
Barbados	0.23 (0.14, 0.33)	8.51 (5.67, 12.13)	-2.28%	-7.00%
Belarus	1.02 (0.71, 1.39)	48.87 (34.38, 66.91)	11.06%	11.00%
Belgium	0.23 (0.15, 0.31)	7.33 (4.96, 9.95)	-42.15%	-38.00%
Belize	0.15 (0.09, 0.22)	6.09 (3.98, 8.65)	16.36%	17.00%
Benin	0.31 (0.12, 0.61)	12.11 (4.35, 23.56)	84.85%	87.00%
Bermuda	0.18 (0.11, 0.25)	6.61 (4.22, 9.38)	-50.71%	-48.00%
Bhutan	0.03 (0, 0.11)	1.15 (-0.24, 4.22)	-90.49%	-90.00%
Bolivia (Plurinational State of)	0.33 (0.16, 0.58)	11.59 (5.7, 19.37)	-4.08%	-8.00%
Bosnia and Herzegovina	0.33 (0.18, 0.49)	12.15 (7.36, 18.19)	13.25%	8.00%
Botswana	0.14 (0.07, 0.25)	5.83 (2.94, 10.67)	-31.80%	-32.00%
Brazil	0.37 (0.24, 0.5)	13.79 (9.46, 18.81)	6.09%	-2.00%
Brunei Darussalam	0.01 (0, 0.02)	0.26 (0, 0.64)	-80.60%	-80.00%
Bulgaria	0.6 (0.42, 0.81)	22.9 (15.83, 30.52)	38.31%	33.00%
Burkina Faso	0.61 (0.36, 0.93)	20.63 (12.12, 31.5)	43.92%	44.00%
Burundi	0.2 (0.07, 0.45)	7.22 (2.72, 15.5)	-26.61%	-27.00%
Cabo Verde	0.53 (0.27, 0.85)	20.2 (10.58, 31.22)	44.03%	42.00%
Cambodia	0.36 (0.19, 0.67)	13.8 (7.35, 25.11)	486.60%	472.00%
Cameroon	0.8 (0.37, 1.56)	29.55 (14.12, 56.56)	52.32%	54.00%
Canada	0.17 (0.1, 0.24)	6.44 (4.2, 8.78)	-1.69%	-1.00%
Central African Republic	0.07 (0.01, 0.17)	2.57 (0.5, 6.18)	-46.80%	-46.00%
Chad	0.35 (0.04, 0.84)	13.26 (1.44, 32.38)	487.53%	466.00%
Chile	0.34 (0.23, 0.47)	10.65 (7.42, 14.3)	-37.78%	-42.00%
China	0.09 (0.05, 0.14)	3 (1.85, 4.54)	-9.37%	-15.00%
Colombia	0.09 (0.05, 0.14)	3.84 (2.35, 5.55)	-50.68%	-50.00%
Comoros	0.02 (0, 0.06)	0.89 (0.14, 2.1)	287.11%	284.00%
Congo	0.21 (0.1, 0.4)	7.47 (3.39, 14.21)	111.40%	106.00%
Cook Islands	0.55 (0.32, 0.85)	23.6 (14.14, 35.89)	746.90%	703.00%
Costa Rica	0.31 (0.18, 0.45)	11.21 (7.02, 16.04)	-18.39%	-16.00%
Côte d'Ivoire	0.76 (0.4, 1.21)	27.89 (15.31, 44.11)	47.97%	47.00%
Croatia	0.37 (0.24, 0.52)	12.09 (8.14, 16.63)	-39.08%	-44.00%
Cuba	0.16 (0.1, 0.24)	6.18 (4.01, 8.72)	48.99%	40.00%
Cyprus	0.23 (0.14, 0.34)	6.26 (3.89, 9.11)	-59.64%	-53.00%
Czechia	0.66 (0.46, 0.89)	23.84 (16.54, 31.27)	-26.89%	-30.00%
Democratic People's Republic of Korea	0.07 (0.03, 0.16)	2.84 (1.14, 6.13)	-20.26%	-19.00%
Democratic Republic of the Congo	0.09 (0.02, 0.19)	3.35 (0.79, 7.39)	-9.19%	-4.00%
Denmark	0.36 (0.22, 0.51)	10.08 (6.67, 13.98)	-24.86%	-34.00%
Djibouti	0 (-0.01, 0.02)	0.14 (-0.42, 0.94)	-90.42%	-90.00%
Dominica	0.24 (0.14, 0.36)	9.23 (5.47, 13.31)	-7.91%	-5.00%
Dominican Republic	0.1 (0.04, 0.17)	4.22 (2.02, 6.97)	-5.70%	-5.00%
Ecuador	0.22 (0.13, 0.33)	8.18 (5.04, 12.22)	-16.48%	-20.00%
Egypt	0 (0, 0)	0.09 (0.04, 0.14)	65.10%	51.00%
El Salvador	0.21 (0.11, 0.33)	8.59 (4.64, 13.64)	-13.79%	-15.00%
Equatorial Guinea	0.22 (0.09, 0.5)	8.02 (3.52, 17.83)	100.44%	97.00%
Eritrea	0.03 (0, 0.09)	1.34 (-0.05, 3.59)	-34.38%	-33.00%
Estonia	0.73 (0.52, 0.97)	36.84 (25.5, 50.72)	39.68%	31.00%
Eswatini	0.22 (0.09, 0.44)	8.66 (3.77, 16.94)	-10.16%	-4.00%
Ethiopia	0.11 (0.04, 0.23)	4.08 (1.37, 8.36)	135.89%	129.00%
Fiji	0.05 (0.03, 0.09)	2.5 (1.27, 4.08)	-12.15%	-11.00%
Finland	0.38 (0.24, 0.52)	13 (8.81, 17.63)	-28.06%	-34.00%
France	0.25 (0.16, 0.34)	7.59 (5.46, 10.09)	-41.50%	-42.00%
Gabon	0.23 (0.11, 0.48)	8.14 (3.94, 16.28)	4.83%	5.00%
Gambia	0.51 (0.2, 0.99)	19.16 (7.84, 36.39)	191.38%	189.00%
Georgia	0.24 (0.14, 0.38)	10.65 (6.25, 16.28)	1706.07%	602.00%
Germany	0.36 (0.25, 0.46)	11.39 (8.18, 14.54)	-34.82%	-37.00%
Ghana	0.43 (0.18, 0.79)	16.05 (7.08, 28.52)	26.30%	28.00%
Greece	0.25 (0.15, 0.35)	7.58 (4.87, 10.42)	-25.77%	-22.00%
Greenland	0.32 (0.17, 0.52)	12.13 (6.75, 18.99)	-24.49%	-28.00%
Grenada	0.2 (0.13, 0.27)	7.59 (5.15, 10.32)	-16.19%	-19.00%
Guam	0.03 (0, 0.06)	1.48 (0.19, 3.03)	136.80%	151.00%
Guatemala	0.38 (0.22, 0.55)	16.06 (10.01, 22.97)	-33.97%	-33.00%
Guinea	0.15 (0.03, 0.33)	5.6 (1.07, 12.43)	121.96%	121.00%
Guinea-Bissau	0.58 (0.25, 1.03)	22.1 (9.94, 39.93)	9.93%	14.00%

Table S8: Age-standardized mortality rate (ASMR) , age-standardized DALY rate (ASDR), deaths and DALYs number for males and females globally from 1990 to 2021, and projected values for 2022–2023.												
	ASMR			ASDR			Deaths number			DALYs number		
	Both	Male	Female	Both	Male	Female	Both	Male	Female	Both	Male	Female
1990	0.24	0.42	0.07	8.88	15.68	2.27	9971.79	8444.09	1527.70	401671.32	351071.77	50599.55
1991	0.24	0.42	0.07	8.97	15.86	2.27	10264.01	8710.98	1553.04	415658.79	363999.69	51659.10
1992	0.25	0.43	0.07	9.21	16.3	2.3	10748.75	9152.15	1596.60	436817.54	383327.63	53489.91
1993	0.25	0.45	0.07	9.6	17	2.36	11429.37	9765.89	1663.47	466125.60	409963.21	56162.39
1994	0.26	0.46	0.07	9.93	17.59	2.43	12065.14	10325.33	1739.81	493582.99	434479.32	59103.67
1995	0.26	0.46	0.07	9.89	17.54	2.41	12286.45	10526.42	1760.03	502267.56	442432.26	59835.30
1996	0.25	0.45	0.07	9.63	17.08	2.35	12242.93	10489.00	1753.93	499050.68	439561.87	59488.81
1997	0.25	0.44	0.07	9.31	16.49	2.29	12111.22	10355.93	1755.29	491733.08	432472.75	59260.33
1998	0.25	0.44	0.07	9.2	16.31	2.26	12262.72	10489.74	1772.98	496102.81	436468.25	59634.56
1999	0.25	0.44	0.07	9.34	16.56	2.28	12699.82	10881.99	1817.84	515022.03	453457.88	61564.15
2000	0.25	0.45	0.07	9.55	16.97	2.3	13274.55	11409.57	1864.99	538685.20	475074.46	63610.75
2001	0.26	0.46	0.07	9.72	17.27	2.35	13837.69	11902.21	1935.49	559975.34	493521.26	66454.08
2002	0.26	0.46	0.07	9.84	17.48	2.39	14335.89	12321.86	2014.03	579063.91	509702.30	69361.61
2003	0.26	0.47	0.07	9.99	17.74	2.43	14890.21	12805.79	2084.43	600545.59	528515.17	72030.42
2004	0.27	0.48	0.07	10.08	17.93	2.42	15335.32	13220.36	2114.96	619574.21	546091.64	73482.57
2005	0.27	0.48	0.07	10.3	18.36	2.44	16056.88	13869.10	2187.78	647323.96	571265.84	76058.13
2006	0.27	0.48	0.07	10.12	18.06	2.38	16142.29	13959.87	2182.41	649012.31	573157.14	75855.16
2007	0.27	0.48	0.07	10.09	18.05	2.34	16496.02	14300.66	2195.36	660972.65	584789.05	76183.60
2008	0.27	0.48	0.07	10.1	18.09	2.32	16965.00	14715.41	2249.59	675675.39	598173.52	77501.87
2009	0.26	0.47	0.07	9.92	17.81	2.26	17115.55	14858.58	2256.97	677819.82	600558.79	77261.03
2010	0.26	0.47	0.07	9.83	17.7	2.19	17397.72	15138.94	2258.79	685882.03	609097.77	76784.26
2011	0.25	0.46	0.06	9.54	17.21	2.09	17294.05	15079.87	2214.18	678492.23	603626.80	74865.43
2012	0.25	0.45	0.06	9.32	16.87	1.99	17309.67	15125.04	2184.63	675874.83	602881.65	72993.18
2013	0.24	0.45	0.06	9.15	16.62	1.9	17423.93	15269.59	2154.34	676758.93	605584.68	71174.25
2014	0.24	0.44	0.06	9.08	16.54	1.84	17700.86	15554.41	2146.45	684142.29	613901.41	70240.88
2015	0.24	0.44	0.05	8.91	16.25	1.78	17848.29	15695.24	2153.05	683860.86	614105.71	69755.15
2016	0.24	0.43	0.05	8.79	16.06	1.73	18066.53	15904.09	2162.44	687306.04	618080.85	69225.19
2017	0.23	0.43	0.05	8.62	15.79	1.67	18137.69	15989.81	2147.88	686231.53	618071.72	68159.81
2018	0.23	0.42	0.05	8.56	15.68	1.64	18420.87	16250.22	2170.65	693472.55	625138.22	68334.33
2019	0.23	0.42	0.05	8.48	15.55	1.6	18641.04	16457.15	2183.89	699112.97	630864.14	68248.83
2020	0.22	0.41	0.05	8.29	15.23	1.55	18631.75	16463.81	2167.94	695084.06	627766.84	67317.22
2021	0.22	0.41	0.05	8.31	15.25	1.55	18749.03	16563.45	2185.58	699335.04	631610.83	67724.21
2022	0.22	0.40	0.05	8.17	15.02	1.51	19023.54	16838.78	2184.76	715749.50	646857.10	68892.35
2023	0.21	0.39	0.05	8.05	14.81	1.48	19138.20	16949.30	2188.91	716923.90	648336.60	68587.30
2024	0.21	0.39	0.04	7.95	14.61	1.44	19278.16	17080.94	2197.22	718753.40	650398.00	68355.30
2025	0.21	0.38	0.04	7.84	14.4	1.41	19413.89	17207.18	2206.71	719809.90	651699.50	68110.30
2026	0.2	0.38	0.04	7.73	14.17	1.37	19540.38	17324.33	2216.05	720291.30	652433.90	67857.27
2027	0.2	0.37	0.04	7.62	13.95	1.34	19674.75	17449.99	2224.76	721116.30	653493.90	67622.13
2028	0.2	0.37	0.04	7.54	13.75	1.31	19844.53	17608.93	2235.59	723307.90	655820.10	67487.56
2029	0.2	0.36	0.04	7.47	13.56	1.28	20046.49	17796.60	2249.89	726435.10	658992.40	67442.44
2030	0.2	0.36	0.04	7.4	13.35	1.25	20257.33	17991.29	2266.05	729298.80	661875.70	67422.64

Table S9: Decomposition analysis of deaths for pancreatitis attributed to alcohol for both gender in global and 5 Socio-Demographic Index(SDI) quintiles					
Gender	Location	Overll difference	Aging	Population	Epidemiology change
Both	Global	8777.24	3042.57 (34.66%)	6842.07 (77.95%)	-1107.4 (-12.62%)
	High SDI	1052.11	960.84 (91.33%)	1010.89 (96.08%)	-919.63 (-87.41%)
	High-middle SDI	2554.14	1417.09 (55.48%)	1578.89 (61.82%)	-441.83 (-17.30%)
	Middle SDI	2594.19	846.26 (32.62%)	1402.17 (54.05%)	345.75 (13.33%)
	Low-middle SDI	1846.08	206.86 (11.21%)	1070.19 (57.97%)	569.03 (30.82%)
	Low SDI	724.91	-14.27 (-1.97%)	549.09 (75.75%)	190.08 (26.22%)
Female	Global	657.87	561.65 (85.37%)	935.35 (142.18%)	-839.13 (-127.55%)
	High SDI	180.4	266.1 (147.51%)	216.97 (120.27%)	-302.68 (-167.78%)
	High-middle SDI	166.73	253.65 (152.13%)	224.04 (134.37%)	-310.96 (-186.51%)
	Middle SDI	163.59	62.08 (37.95%)	86.8 (53.06%)	14.71 (8.99%)
	Low-middle SDI	100.84	15.14 (15.01%)	51.26 (50.83%)	34.45 (34.16%)
	Low SDI	46.06	-1.15 (-2.50%)	35.95 (78.05%)	11.26 (24.45%)
Male	Global	8119.36	2630.3 (32.40%)	5875.93 (72.37%)	-386.87 (-4.76%)
	High SDI	871.71	822.88 (94.40%)	833.31 (95.59%)	-784.48 (-89.99%)
	High-middle SDI	2387.41	1281.53 (53.68%)	1388.6 (58.16%)	-282.72 (-11.84%)
	Middle SDI	2430.6	779.51 (32.07%)	1277.56 (52.56%)	373.52 (15.37%)
	Low-middle SDI	1745.24	166.82 (9.56%)	995.36 (57.03%)	583.05 (33.41%)
	Low SDI	678.84	-20.82 (-3.07%)	509.25 (75.02%)	190.42 (28.05%)

Table S10: Decomposition analysis of disability-adjusted life-years (DALYs) for pancreatitis attributable to alcohol for both gender in global and 5 Socio-Demographic Index(SDI) quintiles

Gender	Location	Overall difference	Aging	Population	Epidemiology change
Both	Global	297663.72	75190.01 (25.26%)	264475.27 (88.85%)	-42001.56 (-14.11%)
	High SDI	18270.84	16492.46 (90.27%)	32681.79 (178.87%)	-30903.41 (-169.14%)
	High-middle SDI	83337.22	38010.75 (45.61%)	63795.98 (76.55%)	-18469.51 (-22.16%)
	Middle SDI	91258.44	21846.78 (23.94%)	56919.35 (62.37%)	12492.31 (13.69%)
	Low-middle SDI	74171.29	6039.03 (8.14%)	44680.09 (60.24%)	23452.17 (31.62%)
	Low SDI	30533.23	-289.82 (-0.95%)	22799.83 (74.67%)	8023.22 (26.28%)
Female	Global	17124.66	11793.57 (68.87%)	29880.82 (174.49%)	-24549.74 (-143.36%)
	High SDI	2440.19	4025.13 (164.95%)	5831.58 (238.98%)	-7416.52 (-303.93%)
	High-middle SDI	4197.33	5952.79 (141.82%)	7967.68 (189.83%)	-9723.14 (-231.65%)
	Middle SDI	5288.22	1338.78 (25.32%)	3197.36 (60.46%)	752.08 (14.22%)
	Low-middle SDI	3497.62	387 (11.06%)	1853.92 (53.01%)	1256.7 (35.93%)
	Low SDI	1707.56	-32.77 (-1.92%)	1281.31 (75.04%)	459.03 (26.88%)
Male	Global	280539.06	64851.13 (23.12%)	233153.3 (83.11%)	-17465.36 (-6.23%)
	High SDI	15830.66	14647.01 (92.52%)	28221.64 (178.27%)	-27037.99 (-170.80%)
	High-middle SDI	79139.89	34401.78 (43.47%)	57170.82 (72.24%)	-12432.72 (-15.71%)
	Middle SDI	85970.22	20128.38 (23.41%)	52145.31 (60.66%)	13696.53 (15.93%)
	Low-middle SDI	70673.67	5065.44 (7.17%)	41815.22 (59.17%)	23793.01 (33.67%)
	Low SDI	28825.67	-453.98 (-1.57%)	21346.9 (74.06%)	7932.75 (27.52%)