

## Additional file

**Appendix Table 1** Life expectancy at different ages

Age	Mean Age	PLE	SLE
0-1	0.5	69.3	69.3
1-5	3	66.8	71
5-10	10	59.8	67.6
10-15	12.5	57.3	62.9
15-20	17.5	52.3	58.1
20-25	22.5	47.3	53.5
25-30	27.5	42.3	48.8
30-35	32.5	37.3	44.2
35-40	37.5	32.3	39.6
40-45	42.5	27.3	35.1
45-50	47.5	22.3	30.9
50-55	52.5	17.3	26.6
55-60	57.5	12.3	22.6
60-65	62.5	7.3	18.9
65-70	67.5	2.3	15.5
70-75	72.5		12.8
75-80	77.5		10.2
80-85	82.5		8.8
85+	87.5		7.2

Source: Sample registration system-abridged life tables 2015-2019

Note. PLE = Potential life expectancy, SLE = Standardised life expectancy

PLE = Life expectancy at birth – Mean age of each age group

Life expectancy at birth was 69.8 years in Odisha.

Standardised life expectancy compiled from sample registration system-abridged life tables 2015-2019.

**Appendix Table 2** Disability-adjusted life years among shrimp cultivator

Sl. no	Diseases code	Name of diseases	NOPSD	DW	YLD (0,0,PLE)	YLD (1,3,SLE)	NPD	YLL (0,0,PLE)	YLL (1,3,SLE)	DALY (0,0,PLE)	DALY (1,3,SLE)	% Change in DALY
<b>1</b>	<b>1</b>	<b>Communicable diseases</b>			<b>0.28</b>	<b>0.360</b>				<b>0.28</b>	<b>0.36</b>	<b>28.57</b>
2	1.1	IPD	11		0.28	0.360				0.28	0.36	28.57
3	1.1.1	Tuberculosis	1	0.333	0.194	0.27				0.194	0.27	39.18
4	1.1.2	Parasitic and vector diseases	10		0.085	0.090				0.085	0.090	5.88
5	1.1.2.1	Malaria	1	0.051	0.003	0.004				0.003	0.004	33.33
6	1.1.2.2	Lymphatic filariasis	1	0.109	0.018	0.015				0.018	0.015	-16.67
7	1.1.2.3	Dengue fever	1	0.133	0.008	0.011				0.008	0.011	37.50
8	1.1.2.4	Covid-19	1	0.133	0.011	0.01				0.011	0.010	-9.09
9	1.1.2.5	Typhoid	3	0.133	0.028	0.03				0.028	0.030	7.14
10	1.1.2.6	Eosinophilia	3	0.006	0.018	0.02				0.018	0.020	11.11
<b>11</b>	<b>2</b>	<b>NCDs</b>			<b>25.62</b>	<b>26</b>	<b>3</b>	<b>74.7</b>	<b>56.72</b>	<b>100.32</b>	<b>82.72</b>	<b>-17.54</b>
<b>12</b>	2.1	Malignant neoplasms	4		0.62	0.713				0.62	0.713	7.26
13	2.1.1	Breast cancer	1	0.083	0.048	0.066				0.048	0.066	37.50
14	2.1.2	Metastatic	3	0.451	0.613	0.643				0.613	0.643	4.89
15	2.2	Endocrine diseases	3		0.43	0.443				0.43	0.443	3.02
16	2.2.1	Thyroid	3	0.145	0.43	0.443				0.43	0.443	3.02
17	2.3	Diabetes	20	0.133	2.66	2.244	1	15.9	13.23	18.56	15.474	-16.63

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18	2.4	Neurological conditions	7		0.46	0.356				0.46	0.356	-24.02
19	2.4.1	Post-polio syndrome	1	0.01	0.01	0.013				0.01	0.013	30.00
20	2.4..2	Parkinson disease	1	0.267	0.07	0.041				0.07	0.041	-41.43
21	2.4.3	Headache	4	0.223	0.213	0.207				0.213	0.207	-2.82
22	2.4.4	Dementia	1	0.165	0.165	0.087				0.165	0.087	-47.27
23	2.5	Cardiovascular diseases	9		1.93	1.688	1	19.9	15.71	21.83	17.398	-20.51
24	2.5.1	Stroke	1	0.07	0.07	0.0539				0.07	0.0539	-23.00
26	2.5.3	High blood Pressure	11	0.179	1.69	1.40				1.69	1.40	-16.92
27	2.5.4	Low blood pressure	3	0.074	0.22	0.225				0.22	0.225	2.27
28	2.5.5	Heart attack	0			0	1	19.9	15.71	19.9	15.710	-21.06
29	2.6	Respiratory diseases	4		0.06	0.052				0.06	0.052	-13.33
30	2.6.1	Asthma	4	0.015	0.06	0.052				0.06	0.052	-13.33
31	2.7	Digestive diseases	35		5.41	5.836				5.41	5.836	7.87
32	2.7.1	Gastric	28	0.178	4.501	4.852				4.501	4.852	7.80
33	2.7.2	Ulcer	2	0.231	0.385	0.449				0.385	0.449	16.62
34	2.7.3	Hernia	2	0.114	0.008	0.007				0.008	0.007	-12.50
35	2.7.4	Crohns disease	3	0.231	0.52	0.528				0.52	0.528	1.54
36	2.8	Skin diseases	7		0.17	0.186				0.17	0.186	9.41
37	2.8.1	Allergy	7	0.058	0.17	0.186				0.17	0.186	9.41

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38	2.9	Musculoskeletal diseases	94		7.1	6.811				7.1	6.811	-0.86
39	2.9.1	Neck pain	1	0.114	0.114	0.086				0.114	0.086	-24.56
40	2.9.2	Back pain	1	0.372	0.37	0.386				0.37	0.386	4.32
41	2.9.3	Waist pain	24	0.02	0.19	0.176				0.19	0.176	-7.37
42	2.9.4	Knee Pain	19	0.079	0.438	0.39				0.438	0.39	-10.96
43	2.9.5	Hand and leg pain	13	0.317	1.94	2.036				2.10	2.036	-3.14
44	2.9.6	Waist and knee Pain	17	0.317	2.86	2.787				2.86	2.787	-2.55
45	2.9.7	Leg pain	7	0.079	0.221	0.198				0.221	0.198	-10.41
46	2.9.8	Chest pain	4	0.369	0.59	0.565				0.59	0.565	-4.24
52	2.9.15	Hand pain	8	0.117	0.343	0.384				0.343	0.384	11.95
55	2.10	Oral conditions	2		0.0015	0.001				0.0015	0.001	-33.33
56	2.10.1	Teeth problem	2	0.01	0.002	0.001				0.002	0.001	-50.00
57	2.11	Sense organ diseases	8		0.26	0.178				0.26	0.178	-31.54
58	2.11.1	Hearing problem	5	0.05	0.25	0.168				0.25	0.168	-32.80
59	2.11.2	Other ear problem	2	0.013	0.005	0.006				0.005	0.006	20.00
60	2.11.3	Eye problem	1	0.005	0.005	0.004				0.005	0.004	-20.00
61	2.12	Mental disorder	304		6.33	7.29	1	38.9	27.78	45.23	35.07	-22.46

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62	2.12.1	Bipolar disorder	1	0.492	0.49	0.274				0.49	0.274	-44.08
63	2.12.2	Depressive disorder	303	0.145	5.84	7.016	1	38.9	27.78	44.74	34.796	-22.23
64	2.13	Others	11		0.18	0.201				0.18	0.201	11.67
65	2.13.1	Abdominopelvic problem	1	0.011	0.0009	0.001				0.0009	0.001	11.11
66	2.13.2	Anaemia	9	0.004	0.0018	0.002				0.0018	0.002	11.11
67	2.12.3	Vesicovaginal fistula	1	0.342	0.18	0.198				64.98	0.198	10.00
<b>68</b>	<b>3</b>	<b>Injury</b>			<b>0.73</b>	<b>0.8525</b>				<b>0.73</b>	<b>0.8525</b>	<b>4.50</b>
69	3.1	TBILTC	1	0.637	0.64	0.612				0.64	0.612	-4.38
70	3.2	Concussion	1	0.214	0.026	0.034				0.026	0.034	30.77
71	3.3	Hand fracture	5	0.01	0.011	0.020				0.011	0.020	81.82
72	3.4	Leg fracture	6	0.05	0.042	0.088				0.042	0.088	109.52
74	3.6	Fracture of patella	1	0.05	0.011	0.009				0.011	0.009	-18.18
<b>80</b>	<b>Total</b>				<b>26.63</b>	<b>27.3</b>		<b>74.4</b>	<b>56.72</b>	<b>101.03</b>	<b>84.02</b>	<b>-16.84</b>

Source: Primary data

Note. NOPSD = Number of people suffered from diseases; MNYSO = Mean number of years suffering from diseases; DW = Disability weightage; YLD(0,0,PLE) = YLD calculated without age weightage (K = 0), without discounting (r = 0), and based on potential life expectancy; YLD(1,3,SL) = YLD calculated with age weightage (K = 1), with discounting (r = 3%), and based on standardized life expectancy; NPD = Number of people Death; YLL(0,0,PLE) = YLL calculated without age weightage (K = 0), without discounting (r =

0), and based on potential life expectancy; YLL (1,3,SLE) = YLL calculated with age weightage ( $K = 1$ ), with discounting ( $r = 3\%$ ), and based on standardized life expectancy; DALY(0,0,PLE) = DALY calculated without age weightage ( $K = 0$ ), without discounting ( $r = 0$ ), and based on potential life expectancy; DALY(1,3,SLE) = DALY calculated with age weightage ( $K = 1$ ), with discounting ( $r = 3\%$ ), and based on standardized life expectancy; NCDs = Non-communicable diseases; IPD = Infectious and parasitic disease; TBILTC = Traumatic brain injury long-term consequences.