

## Supplementary material

**WEBSITE 1: Number of procedures and billing codes per ICD-10 category covered by the Rajiv Aarogyasri Community Health Insurance Scheme**

<b>ICD-10 Category</b>	<b>Number of Unique Procedures Covered</b>	<b>Number of Billing Codes included</b>
(P00-P96) Certain conditions originating in the perinatal period	1	18
(A00-B99) Certain infectious and parasitic diseases	12	16
(Q00-Q99) Congenital malformations, deformations and chromosomal abnormalities	81	108
(D50-D89) Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	7	7
(I00-I99) Diseases of the circulatory system	50	67
(K00-K93) Diseases of the digestive system	107	125
(H60-H95) Diseases of the ear and mastoid process	11	11
(H00-H59) Diseases of the eye and adnexa	20	26
(N00-N99) Diseases of the genitourinary system	65	80
(M00-M99) Diseases of the musculoskeletal system and connective tissue	27	34
(G00-G99) Diseases of the nervous system	45	48
(J00-J99) Diseases of the respiratory system	24	36
(L00-L99) Diseases of the skin and subcutaneous tissue	5	5
(E00-E90) Endocrine, nutritional and metabolic diseases	17	17
(Z00-Z99) Factors influencing health status and contact with health services	2	4
(S00-T98) Injury, poisoning and certain other consequences of external causes	36	63
(C00-D48) Neoplasms	157	234
(O00-O99) Pregnancy, childbirth and the puerperium	4	4
(R00-R99) Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	4	4

**WEBTABLE 2. - Age and Sex distribution of Population in Andhra Pradesh¶**

Age Group	Age group as Proportion of State's Population %	Sex Ratio (Per 1000 men)	Percentage Women %
0-14	25.8	944.7	48.60
15-24	19.2	966.3	49.14
24-34	17.0	1022.9	50.57
35-44	14.1	986.8	49.67
45-54	9.8	962.3	49.04
55-64	7.2	1154.0	53.58
≥65	6.0	1098.0	52.34
Age N.A.	0.9	989.0	49.74
All ages	100.0	992.0	49.82

¶Based on data from India Census 2011

**WEBTABLE 3: Leading causes of utilization of hospital services and resources by women, including sex-specific conditions**

<b>Disease Category</b>	<b>Individuals, n (%)</b>	<b>Hospitalizations, n (%)</b>	<b>Hospital expenditure, million USD (%)</b>	<b>Bed-Days, n (%)</b>	<b>Operative Hospitalizations, n (%)</b>
Neoplasms	66931 (15.9)	223941 (38)	48.87 (19.6)	1389403 (38.3)	26169 (8.9)
Genitourinary system	74090 (17.6)	76676 (13)	34.65 (13.9)	394788 (10.9)	46716 (15.8)
Injury, poisoning	58895 (14)	60543 (10.3)	25.15 (10.1)	489113 (13.5)	59511 (20.2)
Digestive system	49433 (11.7)	50375 (8.5)	23.65 (9.5)	348464 (9.6)	48586 (16.5)
Circulatory system	43311 (10.3)	46070 (7.8)	48.79 (19.6)	230388 (6.4)	18410 (6.2)
Musculoskeletal system	28453 (6.8)	29053 (4.9)	17.52 (7)	224889 (6.2)	28190 (9.6)
Ear and mastoid process	19785 (4.7)	20422 (3.5)	5.64 (2.3)	73172 (2)	20422 (6.9)
Endocrine & metabolic	18672 (4.4)	18736 (3.2)	6.71 (2.7)	111306 (3.1)	18476 (6.3)
Congenital malformations	16512 (3.9)	17356 (2.9)	17.29 (6.9)	121406 (3.3)	16509 (5.6)
Nervous system	16486 (3.9)	16799 (2.8)	7.48 (3)	101641 (2.8)	3664 (1.2)
Respiratory system	7579 (1.8)	7956 (1.3)	3.65 (1.5)	44630 (1.2)	912 (0.3)
Perinatal period	6878 (1.6)	6896 (1.2)	3.32 (1.3)	49010 (1.4)	-
Eye and adnexa	5128 (1.2)	6169 (1)	1.64 (0.7)	12137 (0.3)	6169 (2.1)
Infectious and parasitic	5887 (1.4)	6033 (1)	1.31 (0.5)	21007 (0.6)	164 (0.1)
Blood-forming organs	1278 (0.3)	1327 (0.2)	0.29 (0.1)	4910 (0.1)	-
Pregnancy, childbirth	504 (0.1)	504 (0.1)	0.2 (0.1)	5261 (0.1)	504 (0.2)
Skin and subcutaneous tissue	442 (0.1)	474 (0.1)	0.15 (0.1)	3171 (0.1)	-
Other Factors influencing health	362 (0.1)	365 (0.1)	3.03 (1.2)	1470 (0)	348 (0.1)
Unclassified Symptoms & Signs	358 (0.1)	358 (0.1)	0.22 (0.1)	1735 (0)	-
<b>Total</b>	<b>420984 (100)</b>	<b>590053 (100)</b>	<b>249.46 (100)</b>	<b>3627901 (100)</b>	<b>294750 (100)</b>

**WEBTABLE 4: Leading causes of utilization of hospital services and resources by men, including sex-specific conditions**

<b>Disease Category</b>	<b>Individuals, n (%)</b>	<b>Hospitalizations, n (%)</b>	<b>Hospital expenditure, million USD (%)</b>	<b>Bed-Days, n (%)</b>	<b>Operative Hospitalizations, n (%)</b>
Injury, poisoning	122968 (21.8)	127603 (20.1)	53.97 (15.7)	1047836 (25.2)	125956 (33.1)
Circulatory system	90805 (16.1)	99873 (15.8)	100.57 (29.2)	466910 (11.2)	34337 (9)
Genitourinary system	90739 (16.1)	97251 (15.3)	44.05 (12.8)	416032 (10)	35600 (9.4)
Neoplasms	37142 (6.6)	77758 (12.3)	26.18 (7.6)	726544 (17.5)	16928 (4.4)
Digestive system	65808 (11.7)	67643 (10.7)	32.16 (9.3)	491722 (11.8)	61975 (16.3)
Musculoskeletal system	40959 (7.3)	41848 (6.6)	25.55 (7.4)	323513 (7.8)	41778 (11)
Nervous system	28077 (5)	28701 (4.5)	12.04 (3.5)	168190 (4.1)	6161 (1.6)
Congenital malformations	25136 (4.5)	27505 (4.3)	22.94 (6.7)	208055 (5)	26482 (7)
Ear and mastoid process	16944 (3)	17453 (2.8)	4.71 (1.4)	62450 (1.5)	17453 (4.6)
Respiratory system	14041 (2.5)	14814 (2.3)	6.89 (2)	88681 (2.1)	1692 (0.4)
Perinatal period	10442 (1.9)	10464 (1.7)	5.03 (1.5)	74291 (1.8)	-
Eye and adnexa	7393 (1.3)	9389 (1.5)	2.7 (0.8)	20618 (0.5)	9389 (2.5)
Infectious and parasitic	7923 (1.4)	8103 (1.3)	1.85 (0.5)	29762 (0.7)	405 (0.1)
Endocrine & metabolic	2313 (0.4)	2333 (0.4)	0.91 (0.3)	14683 (0.4)	2082 (0.5)
Blood-forming organs	1381 (0.2)	1530 (0.2)	0.4 (0.1)	5222 (0.1)	-
Unclassified Symptoms & signs	555 (0.1)	558 (0.1)	0.33 (0.1)	2120 (0.1)	-
Other Factors influencing health	542 (0.1)	543 (0.1)	4.13 (1.2)	2189 (0.1)	475 (0.1)
Skin and subcutaneous tissue	275 (0)	301 (0)	0.11 (0)	2234 (0.1)	-
<b>Total</b>	<b>563443 (100)</b>	<b>633670 (100)</b>	<b>344.41 (100)</b>	<b>4151052 (100)</b>	<b>380713 (100)</b>

**WEBSITE 5: Number of unique individuals utilizing hospital care for sex-neutral conditions, by sex and disease category**

ICD 10 Disease Category	Individuals seeking treatment, n (%)		
	Women	Men	Percentage women
Injuries	58895 (16.2)	122968 (22.9)	32.4
Circulatory system	43311 (11.9)	90805 (16.9)	32.3
Digestive system	49293 (13.6)	65808 (12.2)	42.8
Genitourinary system	31696 (8.7)	72376 (13.5)	30.5
Neoplasms	51648 (14.2)	35961 (6.7)	59.2
Musculoskeletal system	28453 (7.8)	40959 (7.6)	41.0
Nervous system	16486 (4.5)	28077 (5.2)	37.0
Ear and mastoid process	19785 (5.5)	16944 (3.2)	53.9
Congenital malformations	16512 (4.6)	18455 (3.4)	47.2
Respiratory system	7579 (2.1)	14041 (2.6)	35.1
Endocrine, nutritional, metabolic	18672 (5.1)	2313 (0.4)	89.0
Perinatal period	6878 (1.9)	10442 (1.9)	39.7
Infectious and parasitic	5887 (1.6)	7923 (1.5)	42.6
Eye and adnexa	5128 (1.4)	7393 (1.4)	41.0
Blood-forming organs	1278 (0.4)	1381 (0.3)	48.1
Symptoms, signs not elsewhere classified	358 (0.1)	555 (0.1)	39.2
Factors influencing health status	362 (0.1)	542 (0.1)	40.0
Skin and subcutaneous tissue	442 (0.1)	275 (0.1)	61.6
<b>All individuals</b>	<b>362663 (100)</b>	<b>537218 (100)</b>	<b>40.3</b>

**WEBTABLE 6: Hospitalization events by disease category for sex-neutral conditions**

ICD 10 Disease Category	Hospitalizations, n (%)		
	Women	Men	Percentage women
Injury, poisoning	60543 (14.1)	127603 (21.2)	32.2
Circulatory system	46070 (10.7)	99873 (16.6)	31.6
Digestive system	50233 (11.7)	67643 (11.2)	42.6
Genitourinary system	34056 (7.9)	78347 (13.0)	30.3
Neoplasms	109449 (25.4)	74825 (12.4)	59.4
Musculoskeletal system	29053 (6.8)	41848 (7)	41.0
Nervous system	16799 (3.9)	28701 (4.8)	36.9
Ear and mastoid process	20422 (4.8)	17453 (2.9)	53.9
Congenital malformations	17356 (4.1)	19636 (3.3)	46.9
Respiratory system	7956 (1.9)	14814 (2.5)	34.9
Endocrine, nutritional, metabolic	18736 (4.4)	2333 (0.4)	88.9
Perinatal period	6896 (1.6)	10464 (1.8)	39.7
Infectious and parasitic	6033 (1.4)	8103 (1.4)	42.7
Eye and adnexa	6169 (1.5)	9389 (1.6)	39.7
Blood-forming organs	1327 (0.4)	1530 (0.3)	46.4
Symptoms, signs not elsewhere classified	358 (0.1)	558 (0.1)	39.1
Factors influencing health status	365 (0.1)	543 (0.1)	40.2
Skin and subcutaneous tissue	474 (0.2)	301 (0.1)	61.2
<b>All Admissions</b>	<b>432295 (100)</b>	<b>603964 (100)</b>	<b>41.7</b>

**WEBTABLE 7: Hospital expenditure on hospital claims for sex-neutral conditions, by sex and disease category**

ICD 10 Disease Category	Hospital expenditure, million USD (%)		
	Women	Men	Percentage women
Injury, poisoning	25.2 (11.8)	54 (16.4)	31.8
Circulatory system	48.8 (22.9)	100.6 (30.6)	32.7
Digestive system	23.6 (11.1)	32.2 (9.8)	42.3
Genitourinary system	14.9 (7)	34.3 (10.4)	30.3
Neoplasms	33 (15.5)	25.5 (7.8)	56.5
Musculoskeletal system	17.6 (8.3)	25.6 (7.8)	40.7
Nervous system	7.5 (3.5)	12.1 (3.7)	38.3
Ear and mastoid process	5.7 (2.7)	4.8 (1.5)	54.5
Congenital malformations	17.3 (8.1)	18.7 (5.7)	48.1
Respiratory system	3.7 (1.8)	6.9 (2.1)	34.6
Endocrine, nutritional, metabolic	6.8 (3.2)	1 (0.3)	88.1
Perinatal period	3.4 (1.6)	5.1 (1.6)	39.7
Infectious and parasitic	1.4 (0.7)	1.9 (0.6)	41.3
Eye and adnexa	1.7 (0.8)	2.7 (0.9)	37.8
Blood-forming organs	0.3 (0.2)	0.4 (0.2)	41.7
Symptoms, signs not elsewhere classified	0.3 (0.2)	0.4 (0.1)	39.9
Factors influencing health status	3.1 (1.5)	4.2 (1.3)	42.3
Skin and subcutaneous tissue	0.2 (0.1)	0.2 (0.1)	59.6
<b>All hospital expenditure</b>	<b>213.6 (100)</b>	<b>329.6 (100)</b>	<b>39.3</b>



**WEBTABLE 8: Number of bed-days for sex-neutral conditions, by sex and disease category**

ICD 10 Disease Category	Number of bed-days, n (%)		
	Women	Men	Percentage women
Injury, poisoning	489113 (15.4)	1047836 (26.4)	31.8
Circulatory system	230388 (7.3)	466910 (11.8)	33.0
Digestive system	347479 (10.9)	491722 (12.4)	41.4
Genitourinary system	138913 (4.4)	316434 (8)	30.5
Neoplasms	1212898 (38.1)	708984 (17.9)	63.1
Musculoskeletal system	224889 (7.1)	323513 (8.2)	41.0
Nervous system	101641 (3.2)	168190 (4.3)	37.7
Ear and mastoid process	73172 (2.3)	62450 (1.6)	54.0
Congenital malformations	121406 (3.9)	149559 (3.8)	44.8
Respiratory system	44630 (1.4)	88681 (2.3)	33.5
Endocrine, nutritional, metabolic	111306 (3.5)	14683 (0.4)	88.3
Perinatal period	49010 (1.6)	74291 (1.9)	39.7
Infectious and parasitic	21007 (0.7)	29762 (0.8)	41.4
Eye and adnexa	12137 (0.4)	20618 (0.6)	37.1
Blood-forming organs	4910 (0.2)	5222 (0.2)	48.5
Symptoms, signs not elsewhere classified	1735 (0.1)	2120 (0.1)	45.0
Factors influencing health status	1470 (0.1)	2189 (0.1)	40.2
Skin and subcutaneous tissue	3171 (0.1)	2234 (0.1)	58.7
<b>All bed-days</b>	<b>3189275 (100)</b>	<b>3975398 (100.1)</b>	<b>44.5</b>