

Supplementary Information

One-year mortality and re-admission rate in heart failure by disease

Table S1A: Baseline Characteristics of the study population stratified by disease etiology (Men)

[illegible]

Hypertension	2896(50.1)	433(37)	48(19.5)	56(48.3)	27(57.4)	4(10.5)	8(38.1)	2(20)	30(58.8)	3504(46.9)
Diabetes Mellitus	2689(46.5)	335(28.6)	32(13)	27(23.3)	17(36.2)	3(7.9)	5(23.8)	2(20)	16(31.4)	3126(41.8)
COPD	418(7.2)	107(9.1)	11(4.5)	13(11.2)	4(8.5)	4(10.5)	3(14.3)	0(0)	12(23.5)	572(7.6)
CKD	534(9.2)	102(8.7)	13(5.3)	11(9.5)	6(12.8)	1(2.6)	2(9.5)	0(0)	6(11.8)	675(9)
AF	269(4.7)	139(11.9)	111(45.1)	25(21.6)	6(12.8)	11(28.9)	6(28.6)	0(0)	3(5.9)	570(7.6)
Stroke	169(2.9)	34(2.9)	6(2.4)	6(5.2)	1(2.1)	0(0)	0(0)	0(0)	4(7.8)	220(2.9)

IHD=ischemic heart disease, DCM=dilated cardiomyopathy, RHD=rheumatic heart disease, NRHD=non-rheumatic valvular heart disease, HCM=hypertrophic cardiomyopathy, CHD=congenital heart disease, PPCM=peri-partum cardiomyopathy, RCM=restrictive cardiomyopathy, IE=infective endocarditis, AF=atrial fibrillation, ETLs=epidemiological transition levels, BMI=body mass index, CKD=chronic kidney disease, COPD=chronic obstructive pulmonary disease, SD=standard deviation.

Table S1B: Baseline Characteristics of the study population stratified by disease etiology (Women)

Variables	IHD (N=2021)	DCM (N=706)	RHD (N=340)	NRHD (N=95)	HCM (N=45)	CHD (N=40)	PPCM (N=49)	RCM (N=17)	IE (N=6)	Others (N=47)	Total (N=3366)
Age	64(11.6)	57.5(14.6)	47.1(14.7)	64.9(14.3)	62(12.9)	44.5(15.8)	29.2(6.08)	61.8(13.34)	56.8(22.3)	58.5(14.4)	60.1(14.4)
Education											
0-4years	789(39)	295(41.8)	111(32.6)	36(37.9)	24(53.3)	9(22.5)	6(12.2)	6(35.3)	1(16.7)	24(51.1)	1301(38.7)
4-8years	536(26.5)	179(25.4)	103(30.3)	27(28.4)	10(22.2)	11(27.5)	9(18.4)	3(17.6)	2(33.3)	8(17)	888(26.4)
9-12years	561(27.8)	164(23.3)	111(32.6)	22(23.2)	7(15.6)	14(35)	20(40.8)	4(23.5)	3(50)	13(27.7)	919(27.3)
>13years	135(6.7)	67(9.5)	15(4.4)	10(10.5)	4(8.9)	6(15)	14(28.6)	4(23.5)	0(0)	2(4.3)	257(7.6)
Tobacco, n(%)	217(10.7)	66(9.3)	17(5)	6(6.3)	9(20)	2(5)	1(2)	0(0)	0(0)	12(25.5)	330(9.8)
Alcohol, n(%)	35(1.7)	9(1.3)	3(0.9)	1(1.1)	0(0)	0(0)	0(0)	0(0)	0(0)	1(2.1)	49(1.5)
BMI, Mean (SD)	24.5(4.3)	24.2(4.5)	22.3(3.9)	24.9(4.7)	27(4.9)	22.5(3.3)	22.7(4.3)	24.3(4.6)	20.2(2)	24.06(4.9)	24.2(4.4)
Obesity/overweight, n(%)	804(39.8)	286(40.5)	72(21.2)	43(45.3)	30(66.7)	11(27.5)	14(28.6)	7(41.2)	0(0)	17(36.2)	1284(38.1)
Regions, n (%)											
Low ETL	421(20.8)	188(26.6)	84(24.7)	7(7.4)	4(8.9)	4(10)	17(34.7)	3(17.6)	0(0)	8(17)	736(21.9)

Lower-Middle ETL	195(9.6)	71(10.1)	24(7.1)	12(12.6)	0(0)	2(5)	6(12.2)	1(5.9)	1(16.7)	3(6.4)	315(9.4)
Higher-Middle ETL	682(33.7)	336(47.6)	148(43.5)	38(40)	34(75.6)	18(45)	18(36.7)	8(47.1)	2(33.3)	20(42.6)	1304(38.7)
High ETL	723(35.8)	111(15.7)	84(24.7)	38(40)	7(15.6)	16(40)	8(16.3)	5(29.4)	3(50)	16(34)	1011(30)
Comorbidities, n(%)											
Hypertension	1275(63.1)	300(42.5)	73(21.5)	58(61.1)	36(80)	10(25)	7(14.3)	7(41.2)	3(50)	30(63.8)	1799(53.4)
Diabetes Mellitus	1141(56.5)	212(30)	56(16.5)	40(42.1)	14(31.1)	8(20)	0(0)	3(17.6)	2(33.3)	14(29.8)	1490(44.3)
COPD	106(5.2)	32(4.5)	8(2.4)	5(5.3)	4(8.9)	3(7.5)	0(0)	1(5.9)	1(16.7)	11(23.4)	171(5.1)
CKD	171(8.5)	41(5.8)	8(2.4)	7(7.4)	6(13.3)	2(5)	1(2)	3(17.6)	1(16.7)	5(10.6)	245(7.3)
AF	118(5.8)	77(10.9)	198(58.2)	28(29.5)	10(22.2)	6(15)	4(8.2)	9(52.9)	1(16.7)	8(17)	459(13.6)
Stroke	52(2.6)	23(3.3)	15(4.4)	6(6.3)	3(6.7)	1(2.5)	0(0)	0(0)	1(16.7)	2(4.3)	103(3.1)

IHD=ischemic heart disease, DCM=dilated cardiomyopathy, RHD=rheumatic heart disease, NRHD=non-rheumatic valvular heart disease, HCM=hypertrophic cardiomyopathy, CHD=congenital heart disease, PPCM=peri-partum cardiomyopathy, RCM=restrictive cardiomyopathy, IE=infective endocarditis, AF=atrial fibrillation, ETLs=epidemiological transition levels, BMI=body mass index, CKD=chronic kidney disease, COPD=chronic obstructive pulmonary disease, SD=standard deviation.

Table S2A: Mortality rate by disease etiology in men

Disease etiology	Participants, n(%)	Events, n	Event rate at one year, %	Person-time in days	Event rate per 100 person-years(95% CI)
IHD	5779(77.3)	1184	20.5	1745108	24.8(23.4-26.2)
DCM	1171(15.7)	287	24.5	343736	30.5(27.1-34.2)
RHD	246(3.3)	68	27.7	70061	35.4(27.9-44.9)
NRHD	211(1.9)	30	25.9	32973	33.2(23.2-47.5)
HCM	47(0.6)	9	19.2	14510	22.6(11.8-43.5)
CHD	38(0.5)	13	34.2	9430	50.8(29.5-87.5)
PPCM	NA	NA	NA	NA	NA
RCM	21(0.3)	7	33.3	5811	44.0(21.0-92.3)
IE	10(0.1)	4	40.0	2343	92.9(46.5-185.9)
Others	51(0.7)	14	27.5	14512	62.3(23.4-166.0)
Total	7479	1616	21.6	2239854	26.3(25.1-27.7)

IHD=ischemic heart disease, DCM=dilated cardiomyopathy, RHD=rheumatic heart disease, NRHD=non-rheumatic valvular heart disease, HCM=hypertrophic cardiomyopathy, CHD=congenital heart disease, PPCM=peri-partum cardiomyopathy, RCM=restrictive cardiomyopathy, IE=infective endocarditis.

Table S2B: Mortality rate by disease etiology in women

Disease etiology	Participants, n(%)	Events, n	Event rate at one year, %	Person-time in days	Event rate per 100 person-years(95% CI)
IHD	2021(60.0)	465	23.0	596784	28.5(25.9-31.2)
DCM	706(21.0)	157	22.2	211904	27.1(23.2-31.7)
RHD	340(10.1)	93	27.3	95744	34.5(28.9-43.4)
NRHD	95(2.8)	23	24.2	27745	30.3(20.1-45.5)
HCM	45(1.3)	3	6.7	15661	6.9(2.3-21.7)
CHD	40(1.2)	14	35.0	10626	48.1(28.5-81.2)
PPCM	49(1.5)	6	12.2	15510	14.1(6.3-31.4)
RCM	17(0.5)	7	41.1	4084	62.6(29.8-131.2)
IE	6(0.2)	4	66.7	798	182.9(68.7-487.5)
Others	47(1.4)	14	29.8	12975	39.4(23.3-66.5)
Total	3366	786	23.4	992196	28.9(26.9-31.0)

IHD=ischemic heart disease, DCM=dilated cardiomyopathy, RHD=rheumatic heart disease, NRHD=non-rheumatic valvular heart disease, HCM=hypertrophic cardiomyopathy, CHD=congenital heart disease, PPCM=peri-partum cardiomyopathy, RCM=restrictive cardiomyopathy, IE=infective endocarditis.

Table S3. List of participating centres

Serial Number	Name of the centre	State/Union Territory	Role	Institute Ethics Committee Reference Number	Date of approval
1	Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum	Kerala	National coordinating centre, Nodal centre and Participating centre	SCT/IEC/1167/FEBRUARY-2018	17-02-2018
2	Lisie Hospital, Kochi	Kerala	Participating centre	Approved	09-07-2018
3	Little Flower Hospital, Angamaly	Kerala	Participating centre	Approved	15-10-2018

4	Government Medical College, Pariyaram, Kannur	Kerala	Participating centre	No.G1.2747/12/ACME	13-09-2018
5	Caritas Hospital, Kottayam	Kerala	Participating centre	Approved	13-08-2018
6	Aster MIMS, Calicut	Kerala	Participating centre	MIMS/IEC/G/O1/07-18	27-06-2018
7	All India Institute of Medical Sciences, New Delhi	Delhi	Nodal centre and	IEC -108/09.03.2018	09-03-2018
8	Govind Ballabh Pant Hospital, New	Delhi	Participating centre	F.1/IEC/MAMC/65/05/2018/ No 06	10-12-2018

9	Medica Heart Institute, Patna	Bihar	Participating centre	IEC -108/09.03.2018	09-03-2018
10	Indira Gandhi Institute of Medical, Sciences, Patna	Bihar	Participating centre	638/IEC/IGIMS/2018	06-12-2018
11	Army RR Hospital, New Delhi	Delhi	Participating centre	117/2018	20-12-2018
12	Indira Gandhi Medical College and Hospital, Shimla	Himachal Pradesh	Participating centre	HFW(MS)G-5(Ethic)/2018 12413	07-12-2018
13	Sri Jayadeva Institute of Cardiovascular Sciences and Research, Bangalore	Karnataka	Nodal centre and participating centre	Approved	31-03-2018

14	Sri Jayadeva Institute of Cardiovascular Sciences and Research, Bangalore Sciences and Research, Kalaburagi	Karnataka	Participating centre	Approved	27-04-2018
15	Sri Jayadeva Institute of Cardiovascular Sciences and Research, Mysore	Karnataka	Participating centre	Approved	27-04-2018
16	Manipal Hospital, Bangalore	Karnataka	Participating centre	Approved	17-10-2018
17	Kasturba Medical College Hospital, Mangaluru	Karnataka	Participating centre	IEC-KMC MLR 07-18/151	18-07-2018
	Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry	Puducherry	Nodal centre and Participating centre	JIP/IEC/2018/096	07-07-2018

19	Sri Venkateswara Institute of Medical Sciences, Tirupati	Andhra Pradesh	Participating centre	IEC No.820	10-09-2018
20	Madras Medical College, Chennai	Tamil Nadu	Participating centre	RGGGH-No.39092018	04-09-2018
21	Madurai Medical College, Madurai	Tamil Nadu	Participating centre	Approved	29-10-2018
22	Christian Medical College & Hospital, Vellore	Tamil Nadu	Participating centre	IRB:11575 (OBSRVE)	31-10-2018
23	Nizam's Institute of Medical Sciences, Hyderabad	Telangana	Participating centre	NO.EC/NIMS/2266/2018	28-02-2019

24	Postgraduate Institute of Medical Education and Research, Chandigarh	Chandigarh	Nodal centre and	IEC-03/2018-872	23-03-2018
25	Dayanand Medical College and Hospital, Ludhiana	Punjab	Participating centre	IEC NO:2018-352	26-07-2018
26	Command Hospital, Western Command, Chandimandir	Haryana	Participating centre	17/25/Jul/CHWC/2018	25-07-2018
27	Government Medical College and Hospital, Chandigarh	Chandigarh	Participating centre	GMC/IEC/2019/331	09-04-2019
28	Dr Rajendar Prasad Government Medical College, Tanda	Himachal Pradesh	Participating centre	No.HFW-H-DRPGMC/Ethics/19/2018	21-08-2018

29	Ojas Super Speciality hospital, Panchkula	Haryana	Participating centre	OSSH/EC/01-18	28-09-2018
30	UN Mehta Institute of Cardiology and Research Centre, Ahmedabad	Gujarat	Nodal centre and Participating centre	Approved	28-02-2018
31	Apollo Hospitals International Ltd, Gandhinagar	Gujarat	Participating centre	AHD-092/06-18	10-08-2018
32	Zydus Hospital, Ahmadabad	Gujarat	Participating centre	No 50/1(9)/TF-CVD/17-NCDII	30-06-2018
33	Sardar Patel Medical College, Bikaner	Rajasthan	Participating centre	No.CTSC/2018/08	31-05-2018

34	Armed Forces Medical College, Pune	Maharashtra	Participating centre	IEC S.No:IEC/2019/128	02-01-2019
35	Baroda Heart Institute and Research Centre, Vadodara	Gujarat	Participating centre	Approved	28-02-2018
36	King George's Medical University, Lucknow	Uttar Pradesh	Nodal centre and Participating Centre	833/Ethics/R.Cell-18	02-07-2018
37	Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow	Uttar Pradesh	Participating centre	PGI/BE/ 627/2018	04-01-2019
38	Institute of Medical Sciences, Banaras Hindu University, BHU, Varanasi	Uttar Pradesh	Participating centre	2018/EC/974	19-11-2018

39	Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow	Uttar Pradesh	Participating centre	Approved	02-07-2018
40	Pt. Jawahar Lal Nehru Memorial Medical College, Raipur	Chhattisgarh	Participating centre	MC/ETHIS/203	13-11-2018
41	Gandhi Medical College, Bhopal	Madhya Pradesh	Participating centre	IEC/1167	31-12-2018
42	Medical College Hospital, Kolkata	West Bengal	Nodal centre and Participating centre	MC/KOL/IEC/NON- SPON/56/03-2018	07-04-2018
43	NRS Medical College Hospital, Kolkata	West Bengal	Participating centre	No/NMC/584	13-12-2019

44	IPGMER and SSKM, Kolkata	West Bengal	Participating centre	IPGME&R/IEC/2020/528	03-08-2020
45	R.G. Kar Medical College, Kolkata	West Bengal	Participating centre	Memo No.RKC/291	11-10-2018
46	Srirama Chandra Bhanja Medical College, Cuttack	Odisha	Participating centre	IEC/IRB No:711/28.9.18	18-09-2018
47	MKCG Medical College, Brahmapur	Odisha	Participating centre	NO.77	07-04-2018
48	North Eastern Indira Gandhi Regional Institute of Health and Medical Sciences, Shillong	Meghalaya	Nodal centre and Participating centre	NEIGR/IEC/M5/F11/18	11-07-2018

49	Tomo Riba Institute Health and Medical Sciences, Arunachal Pradesh	Arunachal Pradesh	Participating centre	NEIGR/IEC/M5/F11/18	11-07-2018
50	Assam Medical College, Assam	Assam	Participating centre	2018/AMC/EC/05	29-12-2018
51	Sher-i-Kashmir Institute of Medical Sciences, Srinagar	Kashmir	Participating centre	Approved	11-07-2018
52	Eternal Hospital, Jaipur	Rajasthan	Participating centre	142/2019	06-05-2019
53	Goa Medical College	Goa	Participating centre	Approved	28-08-2019

