

Supplementary 7. Cost analysis according to major diseases between hospitalist and non-hospitalist groups (N=6391)

Cost per patient admission (USD)	Malignant neoplasms (N=1735)			Diseases of the circulatory system (N=600)		
	HG (n=845)	NHG (n=890)	P value	HG (n=48)	NHG (n=552)	P value
Total costs	37059±128241	63186±163463	0.000	21568±84888	10963±37071	0.100
Direct costs	6745±7389	8040±8268	0.001	5861±6678	6706±10303	0.577
Direct medical costs	4971±6044	6076±6910	0.000	4475±5856	5511±9028	0.435
Consultation fee	279±208	307±220	0.007	233±140	210±200	0.438
Admission fee	1066±1330	1355±1482	0.000	801±838	865±1514	0.772
Medication fee	1288±2927	1582±2985	0.039	805±1995	415±1808	0.156
Treatment and surgery fee	231±566	374±1261	0.003	382±1522	532±2658	0.700
Medical examination fee	1437±1524	1704±1524	0.001	1431±1314	1700±1771	0.303
Therapeutic materials	369±767	443±773	0.045	690±2848	1672±3114	0.035
Others	300±846	311±816	0.780	134±190	117±308	0.710
Direct non-medical costs	1774±1573	1964±1690	0.007	1386±1089	1195±1550	0.404
Family caregiver transportation fare in hospitalization	232±204	255±219	0.028	182±141	155±201	0.357
Paid care cost in hospitalization	652±573	715±615	0.028	512±397	435±564	0.357
Doctor's labor cost	890±796	995±856	0.009	692±550	605±785	0.453
Indirect costs	30314±126770	55146±163122	0.000	15706±84189	4257±35265	0.066
Patient productivity loss according to LOS	703±873	721±834	0.674	531±683	359±651	0.082
Family caregiver productivity loss according to LOS	1320±1159	1447±1245	0.028	1036±804	881±1142	0.357
Patient productivity loss according to ED-LOS	84±85	109±121	0.000	74±60	64±63	0.283
Patient productivity loss according to IHM	28206±126390	52868±163024	0.000	14065±84010	2953±35224	0.074

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Cost per patient admission (USD)	Diseases of the respiratory system (N=1141)			Diseases of the digestive system (N=865)		
	HG (n=266)	NHG (n=875)	P value	HG (n=441)	NHG (n=424)	P value
Total costs	12369±28381	18568±58264	0.904	10408±66247	19732±94288	0.092
Direct costs	6392±14038	6756±7626	0.585	3994±5522	5143±6628	0.006
Direct medical costs	4622±11505	4896±6064	0.610	2942±4606	3932±5768	0.005
Consultation fee	274±324	280±211	0.713	210±151	229±166	0.072
Admission fee	1257±3766	1444±1942	0.283	560±807	781±1151	0.001
Medication fee	649±1527	655±1082	0.947	546±1361	717±1612	0.092
Treatment and surgery fee	477±2303	480±1181	0.982	296±1022	412±1469	0.176
Medical examination fee	1508±2834	1548±1650	0.773	947±1200	1250±1407	0.001
Therapeutic materials	275±1149	321±864	0.486	302±596	465±1079	0.006
Others	182±495	169±324	0.609	82±303	79±131	0.866
Direct non-medical costs	1770±2731	1860±1779	0.529	1052±1103	1211±1102	0.035
Family caregiver transportation fare in hospitalization	232±354	241±231	0.617	139±143	157±143	0.060
Paid care cost in hospitalization	651±994	677±648	0.617	389±401	441±401	0.060
Doctor's labor cost	887±1384	942±901	0.450	524±559	613±558	0.020
Indirect costs	5977±21125	11812±56671	0.100	6414±63518	14589±92439	0.129
Patient productivity loss according to LOS	495±617	539±589	0.292	438±600	425±475	0.728
Family caregiver productivity loss according to LOS	1318±2011	13705±1311	0.617	788±812	892±812	0.060
Patient productivity loss according to ED-LOS	61±55	67±61	0.176	78±75	109±102	0.000
Patient productivity loss according to IHM	4103±20697	9835±56509	0.105	5110±62720	13163±92261	0.132

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Diseases of the genitourinary system (N=577)				Symptoms, signs and abnormal clinical and laboratory findings (N=329)		
Cost per patient admission (USD)	HG (n=202)	NHG (n=375)	P value	HG (n=162)	NHG (n=167)	P value
Total costs	14018±80863	11979±59324	0.730	6724±9524	10762±50267	0.316
Direct costs	4586±6045	5240±5305	0.179	4513±4763	4322±4123	0.698
Direct medical costs	3232±4721	3819±4212	0.127	3324±3901	3358±3469	0.935
Consultation fee	240±216	265±194	0.159	215±147	188±113	0.061
Admission fee	709±1072	909±1247	0.054	667±1029	664±897	0.978
Medication fee	487±924	505±688	0.797	412±873	272±819	0.133
Treatment and surgery fee	251±867	398±962	0.069	191±843	144±561	0.555
Medical examination fee	1209±1429	1349±1163	0.206	1425±1115	1576±1247	0.249
Therapeutic materials	211±740	263±668	0.391	287±594	443±687	0.027
Others	124±341	129±216	0.833	127±364	69±88	0.049
Direct non-medical costs	1354±1393	1422±1218	0.548	1188±1020	965±828	0.029
Family caregiver transportation fare in hospitalization	178±180	184±158	0.679	157±132	125±107	0.017
Paid care cost in hospitalization	501±506	518±443	0.679	440±372	351±302	0.017
Doctor's labor cost	675±706	720±617	0.433	591±516	488±419	0.048
Indirect costs	9432±80267	6739±59151	0.647	2211±7619	6440±49512	0.283
Patient productivity loss according to LOS	390±433	398±401	0.827	432±518	315±339	0.015
Family caregiver productivity loss according to LOS	1013±1025	1048±898	0.679	891±753	711±610	0.017
Patient productivity loss according to ED-LOS	63±56	72±60	0.061	74±69	65±57	0.201
Patient productivity loss according to IHM	7967±80156	5221±59220	0.640	814±7629	5349±49507	0.250

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Cost per patient admission (USD)	Certain infectious and parasitic diseases (N=290)			Endocrine, nutritional and metabolic diseases (N=253)		
	HG (n=86)	NHG (n=204)	P value	HG (n=95)	NHG (n=158)	P value
Total costs	5411±4722	22358±91703	0.088	13906±78014	5765±8350	0.194
Direct costs	3883±3635	6816±10268	0.010	4368±7154	4229±6390	0.873
Direct medical costs	2568±2562	5124±8747	0.008	3049±5368	2940±4887	0.868
Consultation fee	215±154	269±267	0.081	247±298	220±190	0.382
Admission fee	692±782	1452±2060	0.001	643±877	772±1342	0.403
Medication fee	430±475	1010±3434	0.120	491±1521	334±739	0.272
Treatment and surgery fee	107±382	414±1780	0.116	278±1157	188±727	0.450
Medical examination fee	874±817	1562±1959	0.002	1052±1331	1154±1493	0.582
Therapeutic materials	132±378	297±706	0.042	201±719	148±388	0.451
Others	118±171	121±171	0.890	138±373	123±337	0.745
Direct non-medical costs	1315±1144	1693±1837	0.078	1320±1893	1289±1562	0.891
Family caregiver transportation fare in hospitalization	173±148	219±238	0.096	174±245	167±202	0.818
Paid care cost in hospitalization	486±416	616±669	0.096	488±688	469±569	0.818
Doctor's labor cost	655±580	857±930	0.063	658±959	653±791	0.963
Indirect costs	1529±1142	15542±85899	0.132	9538±77367	1536±2047	0.194
Patient productivity loss according to LOS	475±390	593±911	0.248	547±1405	495±927	0.722
Family caregiver productivity loss according to LOS	984±842	1247±1353	0.096	987±1393	950±1151	0.818
Patient productivity loss according to ED-LOS	69±59	98±101	0.014	70±67	91±93	0.061
Patient productivity loss according to IHM	0±0	13603±85029	0.139	7933±77324	0±0	0.198

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Cost per patient admission (USD)	Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (N=177)			Diseases of the musculoskeletal system and connective tissue (N=147)		
	HG (n=130)	NHG (n=47)	P value	HG (n=58)	NHG (n=89)	P value
Total costs	12512±56607	65460±236052	0.018	9269±12785	19916±41366	0.059
Direct costs	5347±9271	11120±17718	0.006	6952±10169	9882±15156	0.198
Direct medical costs	4096±7591	8910±15066	0.006	4911±8119	6869±10992	0.246
Consultation fee	216±217	372±408	0.001	318±324	431±582	0.181
Admission fee	815±1308	1497±2129	0.011	1120±1601	1679±3139	0.212
Medication fee	1851±4590	4170±8980	0.026	795±1826	1126±2184	0.340
Treatment and surgery fee	101±385	351±1111	0.027	397±1677	678±2170	0.405
Medical examination fee	877±1456	2081±2924	0.000	1594±2083	2076±2464	0.221
Therapeutic materials	109±322	244±508	0.038	365±1187	555±1404	0.396
Others	126±245	195±323	0.136	322±983	325±575	0.982
Direct non-medical costs	1252±1771	2210±2811	0.008	2041±2220	3013±4370	0.119
Family caregiver transportation fare in hospitalization	165±229	286±364	0.009	267±288	390±566	0.128
Paid care cost in hospitalization	463±644	805±1023	0.009	751±808	1097±1591	0.128
Doctor's labor cost	624±898	1119±1423	0.007	1023±1125	1526±2213	0.112
Indirect costs	7164±54445	54339±225117	0.027	2317±2716	10034±30967	0.061
Patient productivity loss according to LOS	502±864	1085±1937	0.006	724±1176	973±1201	0.218
Family caregiver productivity loss according to LOS	937±1304	1629±2071	0.009	1520±1635	2220±3220	0.128
Patient productivity loss according to ED-LOS	76±62	79±69	0.760	73±72	95±97	0.149
Patient productivity loss according to IHM	5649±53865	51546±222629	0.030	0±0	6747±29316	0.082

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Cost per patient admission (USD)	Others (N=277)		
	HG (n=93)	NHG (n=184)	P value
Total costs	19377±105815	28223±115873	0.537
Direct costs	6402±6756	7917±12833	0.288
Direct medical costs	4563±5134	5927±10870	0.253
Consultation fee	276±253	326±373	0.238
Admission fee	932±970	1402±2387	0.070
Medication fee	1323±2546	1207±2713	0.732
Treatment and surgery fee	217±673	700±3802	0.226
Medical examination fee	1297±1256	1695±2068	0.090
Therapeutic materials	346±985	419±1140	0.597
Others	172±287	178±302	0.869
Direct non-medical costs	1839±1890	1989±2429	0.601
Family caregiver transportation fare in hospitalization	241±245	258±315	0.646
Paid care cost in hospitalization	676±687	724±884	0.646
Doctor's labor cost	922±959	1007±1230	0.560
Indirect costs	12975±104723	20306±111437	0.598
Patient productivity loss according to LOS	702±847	787±1514	0.612
Family caregiver productivity loss according to LOS	1368±1390	1465±1790	0.646
Patient productivity loss according to ED-LOS	82±104	101±93	0.111
Patient productivity loss according to IHM	10824±104381	17952±110517	0.606

Data are presented as mean ± standard deviation. HG, hospitalist group; NHG, non-hospitalist group; ED-LOS, emergency department length of stay; LOS,

length of hospital stay; IHM, in hospital mortality; Cost unit: USD (U.S. Dollar), (\$1=1307.9 KRW, year: 2023)