

**Table 3. Factors of sudden sensorineural hearing loss identified using Cox regression, stratified by variables**

Metformin	With			Without			With vs. Without				
	Event	PYs	Rate (per 10 <sup>5</sup> PYs)	Event	PYs	Rate (per 10 <sup>5</sup> PYs)	Ratio	Adjusted HR	95% CI	95% CI	P
<b>Total</b>	29	169,441.02	17.12	136	509,328.16	26.70	0.641	0.630	0.422	0.941	0.024*
<b>Gender</b>											
Male	13	82,015.13	15.85	72	245,868.27	29.28	0.541	0.540	0.299	0.976	0.041*
Female	16	87,425.89	18.30	64	263,459.89	24.29	0.753	0.729	0.421	1.262	0.259
<b>Age group (years)</b>											
18-44	2	14,478.46	13.81	12	43,134.00	27.82	0.497	0.453	0.098	0.952	0.022*
45-64	14	45,769.27	30.59	69	134,978.84	51.12	0.598	0.592	0.333	0.992	0.047*
≥65	13	109,193.29	11.91	55	331,215.32	16.61	0.717	0.722	0.395	1.323	0.292
<b>Catastrophic illness</b>											
Without	27	127,128.76	21.24	127	379,465.70	33.47	0.635	0.628	0.415	0.952	0.028*
With	2	42,312.26	4.73	9	129,862.46	6.93	0.682	0.709	0.152	3.313	0.662
<b>HTN</b>											
Without	17	113,752.59	14.94	92	344,694.35	26.69	0.560	0.559	0.333	0.938	0.028*
With	12	55,688.43	21.55	44	164,633.81	26.73	0.806	0.776	0.409	1.470	0.436
<b>Stroke</b>											
Without	28	149,198.28	18.77	130	448,352.89	29.00	0.647	0.636	0.423	0.958	0.030*
With	1	20,242.74	4.94	6	60,975.27	9.84	0.502	0.443	0.050	3.898	0.463
<b>Hyperlipidemia</b>											
Without	29	162,923.16	17.80	132	490,133.41	26.93	0.661	0.652	0.436	0.975	0.037*
With	0	6,517.86	0.00	4	19,194.75	20.84	0.000	0.000	-	-	0.951
<b>RA</b>											
Without	29	168,998.48	17.16	136	507,672.35	26.79	0.641	0.630	0.422	0.941	0.024*
With	0	442.54	0.00	0	1,655.81	0.00	-	-	-	-	-
<b>IHD</b>											
Without	24	146,434.93	16.39	127	437,344.30	29.04	0.564	0.555	0.359	0.859	0.008*
With	5	23,006.09	21.73	9	71,983.86	12.50	1.738	1.716	0.574	5.134	0.334
<b>Depression</b>											
Without	29	168,393.96	17.22	135	505,151.54	26.72	0.644	0.633	0.424	0.946	0.026*
With	0	1,047.06	0.00	1	4,176.62	23.94	0.000	0.000	-	-	0.584
<b>Insomnia</b>											
Without	28	168,936.96	16.57	136	507,283.49	26.81	0.618	0.630	0.422	0.941	0.024*
With	1	504.06	198.39	0	2,044.67	0.00	-	-	-	-	-

PYs = Person-years; Adjusted HR = Adjusted Hazard ratio; Adjusted for the variables listed in Table 2.; CI = confidence interval

\* represents P<0.05