Supplementary Table 1 Influence of characteristics of general medical practices (GMPs) (Odds Ratio, 95% confidence intervals, robust standard errors) on the primary health care indicators related to hypertension and diabetes care, according to multilevel logistic regression analysis in Hungary in 2016

	Serum creatinine measurement		**Lipid measurement**		**HbA1c measurement**		**Eye examination**	
	OR (95%CI)	SE	OR (95%CI)	SE	OR (95%CI)	SE	OR (95%CI)	SE
Gender of GPs								
male	Reference		Reference		Reference		Reference	
female	**1.14 [1.12-1.17]**	0.014	**1.14 [1.11-1.16]**	0.014	**1.18 [1.14-1.23]**	0.022	**1.06 [1.03-1.08]**	0.013
Age of GPs	**0.99 [0.99-0.99]**	0.001	**0.99 [0.99-0.99]**	0.001	**0.99 [0.99-0.99]**	0.001	**0.99 [0.99-0.99]**	0.001
Gender of patients								
male	Reference		Reference		Reference		Reference	
female	**1.1 [1.09-1.11]**	0.003	**1.07 [1.06-1.08]**	0.003	**1.02 [1.00-1.03]**	0.008	**1.13 [1.11-1.14]**	0.007
Age group of patients								
18-19	**0.66 [0.59-0.73]**	0.035	**0.83 [0.77-0.90]**	0.035	**5.08 [3.77-6.85]**	0.775	**0.73 [0.63-0.84]**	0.054
20-24	**0.45 [0.43-0.48]**	0.013	**0.59 [0.56-0.62]**	0.015	**1.58 [1.37-1.82]**	0.115	**0.66 [0.60-0.73]**	0.033
25-29	**0.45 [0.43-0.47]**	0.01	**0.55 [0.53-0.57]**	0.011	**1.12 [1.00-1.25]**	0.065	**0.65 [0.60-0.71]**	0.029
30-34	**0.45 [0.44-0.47]**	0.007	**0.53 [0.51-0.54]**	0.008	**0.89 [0.82-0.98]**	0.041	**0.63 [0.58-0.67]**	0.024
35-39	**0.47 [0.46-0.48]**	0.005	**0.53 [0.52-0.54]**	0.006	**0.95 [0.89-1.02]**	0.033	**0.64 [0.61-0.68]**	0.018
40-44	**0.50 [0.49-0.51]**	0.004	**0.56 [0.55-0.57]**	0.005	**1.01 [0.95-1.06]**	0.027	**0.66 [0.64-0.69]**	0.014
45-49	**0.54 [0.53-0.55]**	0.004	**0.60 [0.59-0.60]**	0.004	**1.06 [1.02-1.11]**	0.023	**0.73 [0.71-0.75]**	0.012
50-54	**0.62 [0.61-0.62]**	0.004	**0.67 [0.66-0.68]**	0.004	**1.04 [1.00-1.08]**	0.019	**0.76 [0.73-0.78]**	0.011
55-59	**0.73 [0.72-0.74]**	0.005	**0.77 [0.77-0.78]**	0.005	**1.07 [1.04-1.10]**	0.017	**0.81 [0.79-0.83]**	0.01
60-64	**0.83 [0.82-0.84]**	0.004	**0.87 [0.86-0.87]**	0.004	**1.03 [1.00-1.05]**	0.014	**0.88 [0.86-0.89]**	0.009
65-69	Reference		Reference		Reference		Reference	
70-74	**1.09 [1.08-1.11]**	0.007	**1.04 [1.03-1.05]**	0.006	**0.91 [0.89-0.94]**	0.012	1.07 [1.05-1.1]	0.011
75-79	**1.08 [1.07-1.1]**	0.007	**0.97 [0.96-0.98]**	0.006	**0.74 [0.72-0.76]**	0.01	0.98 [0.96-1.01]	0.011
80-84	**0.91 [0.9-0.93]**	0.007	**0.80 [0.78-0.81]**	0.006	**0.56 [0.54-0.58]**	0.009	**0.76 [0.74-0.78]**	0.011
85-89	**0.69 [0.68-0.7]**	0.007	**0.59 [0.57-0.60]**	0.005	**0.40 [0.38-0.41]**	0.008	**0.54 [0.52-0.56]**	0.011
>90	**0.46 [0.45-0.47]**	0.006	**0.37 [0.36-0.38]**	0.005	**0.24 [0.23-0.26]**	0.008	**0.36 [0.33-0.39]**	0.013
Relative education of patients	**2.39 [2.04-2.82]**	0.197	**2.31 [1.95-2.73]**	0.198	**2.71 [2.08-3.54]**	0.369	**2.19 [1.84-2.6]**	0.193
County of GMP								
Budapest	Reference		Reference		Reference		Reference	
Baranya	1.01 [0.95-1.07]	0.031	**0.89 [0.84-0.95]**	0.03	**1.27 [1.15-1.40]**	0.065	1 [0.93-1.06]	0.033
Bács-Kiskun	**1.09 [1.02-1.16]**	0.037	0.94 [0.88-1.01]	0.035	**1.22 [1.10-1.34]**	0.063	**0.86 [0.80-0.92]**	0.032
Békés	**0.87 [0.82-0.94]**	0.031	**0.83 [0.77-0.89]**	0.031	1.03 [0.91-1.16]	0.062	**0.75 [0.69-0.80]**	0.027
Borsod-Abaúj-Zemplén	0.95 [0.90-1.00]	0.025	**0.88 [0.83-0.92]**	0.024	**1.10 [1.01-1.2]**	0.048	**0.88 [0.84-0.93]**	0.025
Csongrád	1.01 [0.95-1.09]	0.035	0.99 [0.92-1.06]	0.035	**1.20 [1.09-1.33]**	0.06	0.99 [0.92-1.05]	0.033
Fejér	**0.93 [0.87-0.99]**	0.029	**0.84 [0.79-0.90]**	0.028	1.09 [0.98-1.21]	0.057	**0.88 [0.83-0.93]**	0.028
Győr-Moson-Sopron	**0.92 [0.85-0.98]**	0.033	**0.87 [0.81-0.94]**	0.032	**1.11 [1.00-1.25]**	0.064	**0.67 [0.62-0.72]**	0.024
Hajdú	1.05 [0.99-1.11]	0.031	0.95 [0.89-1.01]	0.03	**1.28 [1.16-1.42]**	0.065	0.99 [0.93-1.05]	0.029
Heves	0.94 [0.88-1.00]	0.031	**0.82 [0.76-0.88]**	0.031	**0.88 [0.78-0.98]**	0.052	**0.57 [0.53-0.61]**	0.02
Komárom-Esztergom	**0.76 [0.71-0.82]**	0.028	**0.68 [0.64-0.73]**	0.024	**0.72 [0.65-0.8]**	0.039	**0.79 [0.73-0.84]**	0.027
Nógrád	**0.81 [0.74-0.88]**	0.034	**0.77 [0.70-0.84]**	0.036	**0.67 [0.57-0.77]**	0.051	**0.67 [0.61-0.73]**	0.031
Pest	0.99 [0.95-1.04]	0.024	0.98 [0.93-1.03]	0.024	0.94 [0.87-1.01]	0.035	**0.90 [0.85-0.94]**	0.022
Somogy	0.95 [0.87-1.04]	0.045	**0.84 [0.76-0.92]**	0.04	0.97 [0.86-1.11]	0.064	**0.75 [0.70-0.81]**	0.028
Szabolcs-Szatmár-Bereg	1.03 [0.97-1.10]	0.034	**0.9 [0.85-0.96]**	0.03	**1.3 [1.18-1.44]**	0.066	**0.85 [0.80-0.90]**	0.026
Jász-Nagykun-Szolnok	**0.88 [0.82-0.95]**	0.033	**0.81 [0.75-0.88]**	0.032	1.06 [0.95-1.18]	0.059	**0.68 [0.63-0.73]**	0.025
Tolna	0.99 [0.91-1.07]	0.039	**0.9 [0.83-0.98]**	0.036	1.11 [0.98-1.25]	0.068	**0.76 [0.7-0.83]**	0.032
Vas	0.97 [0.89-1.05]	0.042	**0.91 [0.83-0.99]**	0.041	**1.33 [1.16-1.54]**	0.097	**0.88 [0.82-0.94]**	0.033
Veszprém	**0.91 [0.85-0.98]**	0.034	**0.8 [0.74-0.86]**	0.031	1.00 [0.90-1.12]	0.057	**0.9 [0.83-0.99]**	0.04
Zala	**0.91 [0.85-0.97]**	0.033	**0.88 [0.82-0.95]**	0.033	**1.16 [1.03-1.31]**	0.07	**0.84 [0.78-0.90]**	0.032
Types of settlement								
rural	Reference		Reference		Reference		Reference	
urban	**1.21 [1.18-1.25]**	0.019	**1.23 [1.19-1.27]**	0.02	**1.20 [1.15-1.26]**	0.028	**1.10 [1.07-1.14]**	0.018
Size of practice								
<800	1.03 [0.96-1.11]	0.04	1.04 [0.95-1.13]	0.044	1.02 [0.89-1.16]	0.068	1.01 [0.92-1.11]	0.049

801-1200	0.99 [0.96-1.03]	0.019	0.99 [0.96-1.04]	0.021	0.97 [0.91-1.03]	0.029	1.01 [0.98-1.05]	0.02
1201-1600	Reference		Reference		Reference		Reference	
1601-2000	1.02 [0.99-1.05]	0.015	1.02 [0.99-1.05]	0.016	1.00 [0.96-1.05]	0.023	0.97 [0.94-1.00]	0.014
>2000	1.01 [0.97-1.04]	0.017	1.00 [0.97-1.03]	0.017	0.96 [0.91-1.01]	0.025	0.96 [0.93-1.00]	0.016

The male gender of GP, male gender of adults, 65-69 years old patients, Budapest, rural settlement type and 1201-1600 GMP's size were considered as reference. Significant results are shown in bold.