Electronic Supplementary Table 1. Preferred Terms included in the SMQ for angioedema.

Preferred Term	MedDRA code
Acquired C1 inhibitor deficiency	10081035
Allergic oedema	10060934
Angioedema	10002424
Circumoral oedema	10052250
Circumoral swelling	10081703
Conjunctival oedema	10010726
Corneal oedema	10011033
Epiglottic oedema	10015029
Eye oedema	10052139
Eye swelling	10015967
Eyelid oedema	10015993
Face oedema	10016029
Gingival oedema	10049305
Gingival swelling	10018291
Gleich's syndrome	10066837
Hereditary angioedema	10019860
Hereditary angioedema with C1 esterase inhibitor deficiency	10080955
Hereditary angioedema with normal C1 esterase inhibitor	10080953
Idiopathic angioedema	10073257
Idiopathic histaminergic angioedema	10088780
Idiopathic urticaria	10021247
Intestinal angioedema	10076229
Laryngeal oedema	10023845
Laryngotracheal oedema	10023893
Limbal swelling	10070492
Lip oedema	10024558
Lip swelling	10024570
Mouth swelling	10075203
Oculorespiratory syndrome	10067317
Oedema mouth	10030110
Oropharyngeal oedema	10078783
Oropharyngeal swelling	10031118
Palatal oedema	10056998
Palatal swelling	10074403
Periorbital oedema	10034545
Periorbital swelling	10056647
Pharyngeal oedema	10034829
Pharyngeal swelling	10082270
Respiratory tract oedema	10070774
Scleral oedema	10057431

Swelling face	10042682
Swelling of eyelid	10042690
Swollen tongue	10042727
Tongue oedema	10043967
Tracheal oedema	10044296
Urticaria	10046735
Urticaria cholinergic	10046740
Urticaria chronic	10052568
Urticaria papular	10046750

Electronic Supplementary Table 2. Formula used for estimating signal detection measures in this study.

I. ROR:

$$ROR = \frac{(a/c)}{(b/d)} = \frac{ad}{bc}$$

$$SE(InROR) = \sqrt{\frac{1}{a} + \frac{1}{b} + \frac{1}{c} + \frac{1}{d}}$$

$$95\%CI = e^{In(ROR) \pm 1.96\sqrt{(\frac{1}{a} + \frac{1}{b} + \frac{1}{c} + \frac{1}{d})}}$$

II. PRR:

$$PRR = (a/(a+b))/(c/(c+d))$$

$$\chi^2 = \frac{\left([ad - bc] - \frac{a+b+c+d}{2}\right)^2 \ (a+b+c+d)}{(a+b)(a+c)(c+d)(b+d)}$$

III. BPCNN:

$$IC = log_2 \frac{p(x,y)}{p(x)p(y)} = log_2 \frac{a(a+b+c+d)}{(a+b)(a+c)}$$

ROR: Reporting odds ratio; PRR: Proportional reporting ratio; and BCPNN: Bayesian confidence propagation neural network.

Electronic Supplementary Table 3. Reports for DPP4-i combinations that were not included in this study.

Sitagliptin combinations	Saxagliptin combinations	Linagliptin combinations	Alogliptin combinations
Two reports			
Benazepril, Ramipril	Ramipril, Lisinopril, Olmesartan	Enalapril, Trandolapril, Losartan, Telmisartan	Nil
One report			
Captopril, Fosinopril, Perindopril, Trandolapril, Candesartan, Olmesartan, Telmisartan	Candesartan, Losartan, Telmisartan, Valsartan	Lisinopril, Perindopril, Quinapril, Candesartan	Enalapril, Ramipril
No reports			
Aliskiren, Enalaprilat, Moexipril, Quinapril, Eprosartan	Aliskiren, Benazepril, Captopril, Enalapril, Enalaprilat, Fosinopril, Moexipril, Perindopril, Quinapril, Trandolapril, Azilsartan, Eprosartan, Irbesartan	Aliskiren, Benazepril, Captopril, Enalaprilat, Fosinopril, Moexipril, Ramipril, Azilsartan, Eprosartan, Irbesaran, Olmesartan	Aliskiren, Benazepril, Captopril, Enalaprilat, Fosinopril, Moexipril, Perindopril, Quinapril, Trandolapril, Azilsartan, Candesartan, Eprosartan, Irbesartan, Losartan, Olmesartan, Telmisartan, Valsartan