

Supplementary table 1: Logistic regression model for anaemia risk in ADOPT

	OR	95% CI	P
TZDs vs. sulphonylureas	4.18	2.50,7.00	<.0001
Metformin vs. sulphonylureas	1.93	1.10,3.38	0.022
Age at diagnosis (per 1 year)	1.02	1.00,1.05	0.049
HGB at baseline (per 1g/dL)	0.41	0.33,0.52	<.0001
Females (vs. males)	0.52	0.36,0.81	0.004
BMI (per 1kg/m ²)	1.01	0.99,1.04	0.332
eGFR (per 1ml/min per 1.73 ²)	0.99	0.98,1.00	0.090

Supplementary table 2: Logistic regression model for anaemia risk in UKPDS

	OR	95% CI	P
Metformin vs. diet	4.42	2.28,8.57	<.0001
Sulphonylureas vs. diet	0.53	0.19,1.48	0.2259
Insulin vs. diet	1.79	0.73,4.42	0.2043
Age at diagnosis (per 1 year)	1.02	0.97,1.06	0.4960
HGB at baseline (per 1g/dL)	0.43	0.31,0.58	<.0001
Females (vs. males)	1.67	0.70,4.00	0.2447
BMI (per 1kg/m ²)	0.99	0.93,1.07	0.8672
eGFR (per 1ml/min per 1.73 ²)	1.00	0.98,1.02	0.8197

Supplementary table 3: Patient characteristics at T2D diagnosis in GoDARTS:

	Type 2 population	Baseline HGB measured?			Baseline anaemia?			Final study population		
		Yes	No	<i>P</i>	Yes	No	<i>P</i>	Included	Excluded	<i>P</i>
n	6440	3765	2675		280	3485		3485	2955	
Age (years)	62.3(10.8)	63.0(10.9)	61.2(10.7)	<.0001	67.2(12.3)	62.7(10.6)	<.0001	62.7(10.6)	61.8(11.0)	0.0005
% males	56%	54.9%	57.5%	0.0387	47.8%	55.5%	0.0136	55.5%	56.6%	0.3962
HGB (g/dL)										
All		14.4(1.5)			11.4(1.0)	14.7(1.2)	<.0001			
Males		15.0(1.3)			12.0(1.0)	15.1(1.1)	<.0001			
Females		13.7(1.3)			11.0(0.9)	14.0(1.0)	<.0001			
BMI (kg/m ²)	31.6(6.1)	31.6(6.1)	31.5(6.0)	0.6220	31.0(6.7)	31.7(6.1)	0.1084	31.7(6.1)	31.5(6.1)	0.2449
eGFR (ml/min per 1.73 ²)	81.5(20.2)	80.7(20.6)	82.9(19.5)	<.0001	70.7(24.8)	81.5(19.9)	<.0001	81.5(19.9)	81.5(20.6)	0.9163
Social deprivation										
1 (most deprived)	24.5%	27.2%	20.7%		26.6%	27.2%		27.2%	21.3%	
2	21.5%	21.9%	20.9%		24.1%	21.7%		21.7%	21.2%	
3	16.6%	15.8%	17.8%		11.9%	16.1%		16.1%	17.2%	
4	18.0%	17.6%	18.6%		17.6%	17.6%		17.6%	18.5%	
5 (least deprived)	19.4%	17.5%	22.0%	<.0001	19.8%	17.3%	0.6742	17.3%	21.8%	<.0001

Table shows 3 separate comparisons: Baseline HGB measured vs. not measured; Baseline anaemia vs. no baseline anaemia (in individuals where baseline HGB was measured); Included vs. Excluded (based on whole type 2 population)

Supplementary figure 1: ADOPT MCV (predictions of fixed effects from non linear mixed model)

