

**Supplementary table 1: overview of post-RYGB donors and their metabolic syndrome recipients**

Donors					Recipients						
Donor no.	Rd	EGP Supp.	Transit time	Recipient no.	Response status	Rd		EGP supp.		Transit time	
						Wk 0	Wk 2	Wk 0	Wk 2	Wk 0	Wk 2
RYGB-D 1	55.1	69.4	54	RYGB-R 1	Non responder	21.99	21.85	60.17	40.23	55	58
				RYGB-R 2	Non responder	25.1	25.74	71.9	69.16	34	58
RYGB-D 2	44.3	99.1	51	RYGB-R 3	Responder	33.5	42.41	77.83	81.73	10	33
				RYGB-R 4	Responder	35.43	39.57	81.74	88.49	67	72
				RYGB-R 5	Non responder	31.2	32.93	73.16	61.53	67	63
				RYGB-R 6	Non responder	26.2	22.95	76.38	96.13	30	37
RYGB-D 3	48	52.6	29	RYGB-R 7	Non responder	52.5	50.75	69.42	72.1	39	48
				RYGB-R 8	Non responder	35.29	34.32	62.92	74.95	72	39
RYGB-D 4	46.2	125.3	58	RYGB-R 9	Responder	27.71	31.86	80.35	79.1	38	55
				RYGB-R 10	Non responder	29.2	28.22	70.54	51.25	40	59
RYGB-D 5	58.9	81.9	62	RYGB-R 11	Responder	51.08	58.99	106.88	106.3	48	62
				RYGB-R 12	Responder	37.01	45.17	78.92	105.47	36	46

Rd: rate of glucose disappearance in  $\mu\text{mol}/\text{kg}\cdot\text{min}$ , EGP supp: suppression of endogenous glucose production in %, transit time: number of excreted markers from a total of 72 ingested markers on day 4 after ingestion. On the mornings of days 1, 2 and 3, 24 markers were ingested, on the morning of day 4 an abdominal X-ray was made to count the markers inside the gut. Excreted markers were calculated as 72 minus the marker count.