

**Table 1:** Portal glucose balance studies in humans

Reference	Conditions of study	Expression of data	Central blood	Portal blood	Significance
Hayes et al, 2011	<u>obese diabetics</u> :				
	during surgery	Glucose (mM)	<b>11.4</b> ± 0.6	<b>11.6</b> ± 1.6	NS
	6 days post-bypass 8h of fasting	Glucose (mM)	<b>6.5</b> ± 0.7	<b>6.5</b> ± 0.6	NS
	<u>obese non-diabetics</u> :				
	during surgery	Glucose (mM)	<b>6.5</b> ± 0.3	<b>6.5</b> ± 0.3	NS
	6 days post-bypass 8h of fasting	Glucose (mM)	<b>4.0</b> ± 0.2	<b>4.2</b> ± 0.2	P<0.0001
Battezzati et al, 2004	an-hepatic phase of liver transplantation	glucose increase in portal blood vs arterial blood (mg/dL)		+ <b>1.9</b> ± 1.2	NS

**Table 2:** Arterio-portal venous glucose balance studies in rodents

Reference	Conditions of study	Expression of data	Arterial blood	Portal blood	Significance	Intestinal glucose production
Troy et al, 2008	<u>6h-fasted obese mice:</u> before bypass	Glucose (mM)	<b>9.6</b> ± 1.2	<b>9.0</b> ± 1.1	P<0.05	Not detectable
	10 days post-bypass	Glucose (mM)	<b>8.7</b> ± 0.5	<b>8.6</b> ± 0.4	NS	About 1/3 of EGP*
Mithieux et al, 2005	<u>6h-fasted rat:</u> fed with starch-diet	Glucose (mM)	<b>9.3</b> ± 0.6	<b>8.6</b> ± 0.5	P<0.05	Not detectable
	fed with high protein-diet (3 days)	Glucose (mM)	<b>9.4</b> ± 0.3	<b>9.5</b> ± 0.2	NS	About 20% of EGP
Duraffourd et al, 2012	<u>8h-fasted rat:</u> saline	Glucose (mM)	<b>9.5</b> ± 0.1	<b>9.1</b> ± 0.2	P<0.05	Not detectable
	μ-opioid antagonist	Glucose (mM)	<b>9.4</b> ± 0.4	<b>9.3</b> ± 0.3	NS	About 25% of EGP

\*, EGP: endogenous glucose production