

Supplemental Tables

Table 1-Summary of pharmacodynamic responses measured by VASP assay after clopidogrel and prasugrel administration (Mean ± SE)

Time	Pras EM ± SE	Pras RM ± SE	P value EM vs RM	Clop EM ± SE	Clop RM ± SE	P value EM vs RM
Day 1 0hr	80.41 ± 0.85	82.22 ± 0.63		81.93 ± 0.88	82.85 ± 1.98	
Day 1 1hr	20.54 ± 3.7	13.95 ± 4.71	0.2535	69.34 ± 2.97	72.71 ± 4.77	0.64
Day 1 2 hr	11.24 ± 2.37	6.6 ± 1.37	0.2469	57.69 ± 3.71	56.12 ± 8.57	0.8052
Day 1 24 hr	11.97 ± 1.34	10.53 ± 2.29	0.2515	51.2 ± 3.74	65.96 ± 6.25	0.011
Day 14 0hr	22.47 ± 1.54	31.27 ± 3.5	0.2279	48.96 ± 2.77	64.24 ± 4.21	0.0024
Day 29 0hr	23.38 ± 2.01	34.54 ± 4.39	0.1855	48.28 ± 2.97	66.12 ± 5.65	0.0037

Table 2-Summary of pharmacodynamic responses measured by VNP2Y12 device (PRU) after clopidogrel and prasugrel administration (Mean ± SE)

Time	Pras EM ± SE	Pras RM ± SE	P value EM vs RM	Clop EM ± SE	Clop RM ± SE	P value EM vs RM
Day 1 0hr	299.57 ± 7.09	291.2 ± 11.29		301.95 ± 6.2	267.56 ± 14.39	
Day 1 2hr	13 ± 2.6	27.31 ± 18.46	0.6562	157.94 ± 14.78	174.44 ± 25.57	0.2254
Day 1 24hr	17.37 ± 2.86	26.62 ± 13.95	0.8207	141.74 ± 14.56	183.00 ± 18.97	0.0069
Day 14 0 hr	52.06 ± 6.98	90.8 ± 17.33	0.1424	162.32 ± 11.93	201.00 ± 14.48	0.0138
Day 29 0hr	62.32 ± 7.46	92.2 ± 23.06	0.5996	161.08 ± 14.46	208.78 ± 18.46	0.0153

Table 3-Summary of ratio or difference for PK and PD responses for CYP2C19, CYP2B6, CYP2C9 and CYP3A5

CYP gene	Treatment	AUC ratio LD (RM/EM)	P values	%PRI LD (EM-RM)	P value	%PRI MD D14 (EM-RM)	P value	%PRI MD D29 (EM-RM)	P value
CYP2C9	Clop	0.8933293	0.3734	-12.0696	0.0669	-7.0586	0.2024	-12.2676	0.0577
CYP3A5	Clop	0.8254719	0.0686	-6.2312	0.2724	1.4874	0.7549	-2.4508	0.6572
CYP2B6	Clop	1.09505	0.3539	6.9794	0.1795	-0.3944	0.9275	3.3628	0.5168
CYP2C19	Clop	0.7045472	0.0015	-15.0198	0.011	-15.0164	0.0024	-17.7248	0.0037
CYP2C9	Pras	1.032311	0.7792	1.1056	0.8506	6.8508	0.1683	9.3688	0.1054
CYP3A5	Pras	1.185305	0.2839	9.2816	0.2701	6.1628	0.3834	19.3252	0.0195
CYP2B6	Pras	0.9916352	0.9246	0.011	0.9981	-1.8962	0.6255	0.4668	0.9205
CYP2C19	Pras	0.9573368	0.6361	5.7914	0.2515	-5.0418	0.2279	-6.5788	0.1855

Clop=clopidogrel, Pras=prasugrel, LD=loading dose, MD=maintenance dose, AUC = area under the concentration-time curve; EM = extensive metaboliser; RM = reduced metaboliser, PRI = platelet reactivity index; PRU = P2Y12 reaction unit.