	Comparator		No. of pts	Hazard Ratio (95%Cri
Chemo	Ate		179 vs. 163	0.49(0.37-0.65)
	Ate+Chemo		161 vs. 106	0.65(0.47-0.91)
	Niv		171 vs. 184	0.63(0.48-0.83)
	Niv+lpi Pem	P04	205 vs. 192	0.70(0.55-0.89)
	Pem+Chemo	-	857 vs. 701 205 vs. 143	0.65(0.57-0.73)
	Dur		118 vs. 107	0.68(0.51-0.91) 0.76(0.55-1.00)
	Ate+Chemo	-		1.30(0.86-2.10)
Ate	Niv		-	1.30(0.88-1.90)
	Niv+lpi			1.40(0.99-2.10)
	Pem			1.30(0.98-1.80)
	Pem+Chemo Dur			1.40(0.93-2.10) 1.60(1.00-2.40)
	Niv		_	0.0300.03.1.000
	Nivripi		_	0.97(0.63-1.50) 1.10(0.71-1.60)
Ate+Chemo	Pem			0.99(0.70-1.40)
	Pem+Chemo Dur			1.00(0.67-1.60)
				1.20(0.74-1.80)
	Niv+lpi Pem			1.10(0.77-1.60) 1.00(0.76-1.40)
Niv	Pem+Chemo	-		1.10(0.72-1.60)
	Dur			1.20(0.79-1.80)
	Pem			0.92(0.70-1.20)
Nivelpi	Pem+Chemo	-	→	0.97(0.66-1.40)
	Dur		_	1.10(0.72-1.60)
Pem	Pem+Chemo	-	→	1.00(0.76-1.40)
	Dur		_	1.20(0.83-1.60)
Pem+Chemo	Dur		1.10(0.72-1.70)	
			→ ²	3 A
	Favor	Comparator F	avor Reference	A
Reference	Comparator		No. of pts	Hazard Ratio (95%)
	Ate		170 vs. 179	1.00(0.76-1.40)
Chemo	Ate+Chemo		325 vs. 263	1.00(0.82-1.20)
	Pem		738 vs. 528	0.85(0.75-0.96
	Pem+Chemo		231 vs. 162	0.60(0.46-0.79
	Ate+Chemo			0.97(0.66-1.40)
Ate	Pem		-31	0.81(0.58-1.10)
-	Pem+Chemo			0.58(0.38-0.88)
Ate+Chemo	Pem			0.84(0.66-1.10)
	Pem+Chemo			0.60(0.43-0.84)
Pem	Pem+Chemo	\longrightarrow		0.71(0.53-0.95)
	4	'		117224
	Favor C	Comparator F	Favor Reference	В
			W	
	Companie		No. of pts 180 vs. 199	Hazard Ratio (95%Crl)
Reference	Comparator	bertiered.		ATTIONS AND
Reference	Ate			0.77(0.61-0.97)
			484 vs. 366 300 vs. 220	0.77(0.61-0.97) 0.80(0.68-0.95) 0.77(0.64-0.93)
Reference	Ate Ate+Chemo Niv Niv+Chemo		484 vs. 366	0.80(0.68-0.95)
	Ate Ate+Chemo Niv Niv+Chemo Niv+Ipi		484 vs. 366 300 vs. 220 176 vs. 186 187 vs. 186	0.80(0.68-0.95) 0.77(0.64-0.93)
	Ate Ate+Chemo Niv Niv+Chemo Niv+Ipi Pem+Chemo		484 vs. 366 300 vs. 220 176 vs. 186 187 vs. 186 222 vs. 162	0.80(0.68-0.95) 0.77(0.64-0.93) 0.78(0.62-0.98) 0.62(0.49-0.79) 0.65(0.51-0.83)
	Ate Ate+Chemo Niv Niv+Chemo Niv+Ipi		484 vs. 366 300 vs. 220 176 vs. 186 187 vs. 186	0.80(0.68-0.95) 0.77(0.64-0.93) 0.78(0.62-0.98) 0.62(0.49-0.79)
	Ate Ate+Chemo Niv Niv+Chemo Niv+lpi Pem+Chemo Dur Ate+Chemo		484 vs. 366 300 vs. 220 176 vs. 186 187 vs. 186 222 vs. 162	0.80(0.68-0.95) 0.77(0.64-0.93) 0.78(0.62-0.98) 0.82(0.49-0.79) 0.65(0.51-0.87) 1.00(0.79-1.30) 1.00(0.78-1.40)
	Ate Ate+Chemo Niv Niv+Chemo Niv+bi Pem+Chemo Dur Ate+Chemo Niv		484 vs. 366 300 vs. 220 176 vs. 186 187 vs. 186 222 vs. 162	0.80(0.68-0.95) 0.77(0.64-0.93) 0.82(0.89-0.79) 0.65(0.83-0.79) 0.65(0.51-0.83) 1.00(0.79-1.30) 1.00(0.78-1.40) 1.00(0.74-1.30)
	Ate Ate+Chemo Niv+Chemo Niv+tpi Pem+Chemo Dur Ate+Chemo Niv Niv+Chemo		484 vs. 366 300 vs. 220 176 vs. 186 187 vs. 186 222 vs. 162	0.80(0.68-0.95) 0.77(0.64-0.93) 0.78(0.62-0.96) 0.62(0.62-0.79) 0.65(0.51-0.83) 1.00(0.79-1.40) 1.00(0.74-1.30) 1.00(0.74-1.30)
Chemo	Ate Ate+Chemo Niv Niv+Chemo Niv+Upi Pem+Chemo Dur Ate+Chemo Niv Niv+Chemo Niv+Upi		484 vs. 366 300 vs. 220 176 vs. 186 187 vs. 186 222 vs. 162	0.80(0.68-0.95) 0.77(0.64-0.93) 0.78(0.82-0.98) 0.62(0.49-0.79) 0.65(0.51-0.83) 1.00(0.79-1.40) 1.00(0.74-1.30) 1.00(0.73-1.40) 0.81(0.58-1.10)
Chemo	Ate Ate+Chemo Niv+Chemo Niv+tpi Pem+Chemo Dur Ate+Chemo Niv Niv+Chemo		484 vs. 366 300 vs. 220 176 vs. 186 187 vs. 186 222 vs. 162	0.80(0.68-0.95) 0.77(0.64-0.93) 0.78(0.62-0.96) 0.62(0.62-0.79) 0.65(0.51-0.83) 1.00(0.79-1.40) 1.00(0.74-1.30) 1.00(0.74-1.30)
Chemo	Ate Ate+Chemo Niv+Opiemo Niv+Opi Pem+Chemo Dur Ate+Chemo Niv+Opi Niv+Chemo Niv+Opi Pem+Chemo Dur		484 vs. 366 300 vs. 220 176 vs. 186 187 vs. 186 222 vs. 162	0.80(0.68-0.95) 0.77(0.64-0.93) 0.78(0.82-0.98) 0.62(0.49-0.79) 0.65(0.51-0.83) 1.00(0.79-1.30) 1.00(0.74-1.30) 1.00(0.74-1.30) 1.00(0.73-1.40) 0.81(0.59-1.10) 0.84(0.50-1.20) 1.30(0.94-1.90)
Chemo	Ate Ate+Chemo Niv+Chemo Niv+bpi Pem+Chemo Dur Ate+Chemo Niv+Chemo Niv+tpi Pem+Chemo		484 vs. 366 300 vs. 220 176 vs. 186 187 vs. 186 222 vs. 162	0.80(0.68-0.95) 0.77(0.64-0.93) 0.78(0.82-0.96) 0.62(0.49-0.79) 0.65(0.51-0.83) 1.00(0.78-1.40) 1.00(0.74-1.30) 1.00(0.73-1.40) 0.81(0.58-1.10) 0.81(0.58-1.10) 0.84(0.50-1.20) 1.30(0.94-1.90) 0.96(0.74-1.20)
Chemo	Ate Ate+Chemo Niv+Chemo Niv+Chemo Niv+Chemo Niv+Chemo Niv+Chemo Niv+Chemo Niv+Chemo Dur Niv+Chemo Dur		484 vs. 366 300 vs. 220 176 vs. 186 187 vs. 186 222 vs. 162	0.80(0.68-0.95) 0.77(0.64-0.93) 0.78(0.82-0.98) 0.62(0.49-0.79) 0.65(0.51-0.83) 1.00(0.79-1.40) 1.00(0.74-1.30) 1.00(0.73-1.40) 0.81(0.58-1.10) 0.84(0.50-1.20) 1.30(0.94-1.90) 0.96(0.74-1.20) 0.97(0.73-1.30)
Chemo	Ate Ate+Chemo Niv+Chemo Niv+Chemo Niv+Chemo Niv+Chemo Niv+Chemo Niv+Chemo Dur Niv+Chemo Dur Niv+Chemo Dur Niv+Chemo Dur Niv+Chemo Dur		484 vs. 366 300 vs. 220 176 vs. 186 187 vs. 186 222 vs. 162	0.80(0.68-0.95) 0.77(0.64-0.93) 0.78(0.82-0.96) 0.62(0.49-0.79) 0.65(0.51-0.83) 1.00(0.78-1.40) 1.00(0.74-1.30) 1.00(0.73-1.40) 0.81(0.58-1.10) 0.81(0.58-1.10) 0.84(0.50-1.20) 1.30(0.94-1.90) 0.96(0.74-1.20)
Chemo	Ate Ate+Chemo Niv+Opi Niv+Chemo Niv+Ipi Pem+Chemo Niv+Ipi Pem+Chemo Niv+Ipi Pem+Chemo Dur		484 vs. 366 300 vs. 220 176 vs. 186 187 vs. 186 222 vs. 162	0.80(0.68-0.95) 0.77(0.64-0.93) 0.78(0.82-0.96) 0.62(0.49-0.79) 0.65(0.51-0.83) 1.00(0.79-1.30) 1.00(0.74-1.30) 1.00(0.73-1.40) 0.81(0.59-1.10) 0.84(0.50-1.20) 1.30(0.94-1.90) 0.97(0.73-1.30) 0.77(0.57-1.30) 0.77(0.57-1.30)
Chemo	Ate Ate Chemo Niv+One Chemo Niv+One Chemo Dur Ate+Chemo Niv+Ipi Pem+Chemo Niv+Ipi Pem+Chemo Niv+Ipi Pem+Chemo Dur Niv+One Chemo Dur Niv+Chemo Dur Niv+Chemo Dur Niv+Chemo Dur		484 vs. 366 300 vs. 220 176 vs. 186 187 vs. 186 222 vs. 162	0.80(0.68-0.95) 0.77(0.64-0.93) 0.78(0.82-0.98) 0.62(0.49-0.79) 0.65(0.51-0.83) 1.00(0.79-1.40) 1.00(0.78-1.40) 1.00(0.73-1.40) 0.81(0.58-1.10) 0.81(0.58-1.10) 0.81(0.58-1.10) 0.81(0.58-1.10) 0.81(0.58-1.10) 0.96(0.74-1.20) 0.97(0.73-1.30) 0.77(0.57-1.00) 0.81(0.60-1.10) 1.30(0.94-1.70) 1.00(0.75-1.40)
Chemo	Ate Ate+Chemo Niv+Ipi Niv+Chemo Niv+Ipi Pem+Chemo Niv+Ipi Pem+Chemo Niv+Ipi Pem+Chemo Dur Niv+Chemo Niv+Ipi Pem+Chemo Niv+Ipi Pem+Chemo Niv+Ipi Niv+Chemo Niv+Ipi Niv+Chemo Niv+Ipi Niv+Chemo Niv+Ipi		484 vs. 366 300 vs. 220 176 vs. 186 187 vs. 186 222 vs. 162	0.80(0.68-0.95) 0.77(0.64-0.93) 0.78(0.82-0.98) 0.62(0.49-0.79) 0.65(0.51-0.83) 1.00(0.79-1.30) 1.00(0.74-1.30) 1.00(0.73-1.40) 0.81(0.58-1.10) 0.84(0.50-1.20) 1.30(0.94-1.90) 0.97(0.73-1.30) 0.77(0.57-1.00) 0.81(0.50-1.10) 1.30(0.94-1.70) 1.00(0.75-1.40) 0.81(0.50-1.10) 1.00(0.75-1.40) 0.81(0.59-1.10)
Ate Ate+Chemo	Ate Ate Chemo Niv+One Chemo Niv+One Chemo Dur Ate+Chemo Niv+Ipi Pem+Chemo Niv+Ipi Pem+Chemo Niv+Ipi Pem+Chemo Dur Niv+One Chemo Dur Niv+Chemo Dur Niv+Chemo Dur Niv+Chemo Dur		484 vs. 366 300 vs. 220 176 vs. 186 187 vs. 186 222 vs. 162	0.80(0.68-0.95) 0.77(0.64-0.93) 0.78(0.82-0.98) 0.62(0.49-0.79) 0.65(0.51-0.83) 1.00(0.79-1.40) 1.00(0.74-1.30) 1.00(0.73-1.40) 0.81(0.50-1.10) 0.81(0.50-1.20) 1.30(0.94-1.90) 0.97(0.73-1.30) 0.77(0.57-1.00) 0.81(0.60-1.30) 1.30(0.94-1.70) 1.30(0.94-1.70) 1.30(0.94-1.70) 1.30(0.94-1.70) 1.30(0.94-1.70) 1.30(0.94-1.70) 1.30(0.94-1.70) 1.30(0.94-1.70) 1.30(0.95-1.10) 0.81(0.59-1.10) 0.84(0.62-1.20)
Ate Ate+Chemo	Ate Ate+Chemo Niv+Opi Niv+Chemo Niv+Opi Pem+Chemo Niv+Opi Ate+Chemo Niv+Opi Pem+Chemo Dur Niv+Chemo Niv+Opi Pem+Chemo Dur Niv+Chemo Niv+Opi Pem+Chemo Dur		484 vs. 366 300 vs. 220 176 vs. 186 187 vs. 186 222 vs. 162	0.80(0.68-0.95) 0.77(0.64-0.93) 0.78(0.82-0.96) 0.62(0.49-0.79) 0.65(0.51-0.83) 1.00(0.79-1.30) 1.00(0.74-1.30) 1.00(0.73-1.40) 0.81(0.59-1.10) 0.81(0.59-1.10) 0.81(0.59-1.10) 0.97(0.73-1.30) 0.77(0.57-1.00) 0.81(0.60-1.10) 1.30(0.94-1.70) 1.00(0.75-1.40) 0.81(0.50-1.10) 1.00(0.75-1.40) 0.81(0.50-1.10) 1.00(0.75-1.40) 0.81(0.50-1.10) 1.00(0.75-1.40) 0.81(0.59-1.10) 0.84(0.62-1.20) 1.30(0.97-1.80)
Ate Ate+Chemo	Ate Ate+Chemo Niv+Chemo Niv+Ipi Pem+Chemo Niv+Ipi Ate+Chemo Niv-Ipi Pem+Chemo Dur Niv-Chemo Dur Niv+Chemo Niv+Ipi Pem+Chemo Dur Niv+Chemo Dur Niv+Chemo Dur Niv+Chemo Dur Niv+Chemo Dur Niv+Chemo Dur Niv+Ipi Pem+Chemo Dur		484 vs. 366 300 vs. 220 176 vs. 186 187 vs. 186 222 vs. 162	0.80(0.68-0.95) 0.77(0.64-0.93) 0.78(0.82-0.98) 0.62(0.49-0.79) 0.65(0.81-0.83) 1.00(0.78-1.40) 1.00(0.74-1.30) 1.00(0.73-1.40) 0.81(0.58-1.10) 0.84(0.50-1.20) 1.30(0.94-1.20) 0.97(0.73-1.30) 0.77(0.57-1.00) 0.81(0.50-1.10) 1.30(0.94-1.70) 1.00(0.75-1.40) 0.81(0.50-1.10) 1.30(0.94-1.70) 1.00(0.75-1.40) 0.81(0.50-1.10) 1.30(0.94-1.70) 1.00(0.75-1.40) 0.81(0.50-1.10) 1.30(0.97-1.80) 0.79(0.57-1.10)
Ate Ate+Chemo	Ate Ate+Chemo Niv+Opi Niv+Chemo Niv+Opi Pem+Chemo Niv+Opi Ate+Chemo Niv+Opi Pem+Chemo Dur Niv+Chemo Niv+Opi Pem+Chemo Dur Niv+Chemo Niv+Opi Pem+Chemo Dur		484 vs. 366 300 vs. 220 176 vs. 186 187 vs. 186 222 vs. 162	0.80(0.68-0.95) 0.77(0.64-0.93) 0.78(0.82-0.96) 0.62(0.49-0.79) 0.65(0.51-0.83) 1.00(0.79-1.30) 1.00(0.74-1.30) 1.00(0.73-1.40) 0.81(0.59-1.10) 0.81(0.59-1.10) 0.81(0.59-1.10) 0.97(0.73-1.30) 0.77(0.57-1.00) 0.81(0.60-1.10) 1.30(0.94-1.70) 1.00(0.75-1.40) 0.81(0.50-1.10) 1.00(0.75-1.40) 0.81(0.50-1.10) 1.00(0.75-1.40) 0.81(0.50-1.10) 1.00(0.75-1.40) 0.81(0.59-1.10) 0.84(0.62-1.20) 1.30(0.97-1.80)
Ate Ate+Chemo Niv	Ate Ate Chemo Niv+lpi Pem+Chemo Dur		484 vs. 366 300 vs. 220 176 vs. 186 187 vs. 186 222 vs. 162	0.80(0.68-0.95) 0.77(0.64-0.93) 0.78(0.62-0.98) 0.62(0.49-0.79) 0.65(0.51-0.83) 1.00(0.78-1.40) 1.00(0.78-1.40) 1.00(0.78-1.40) 0.81(0.58-1.10) 0.84(0.60-1.20) 1.30(0.94-1.20) 0.97(0.78-1.30) 0.97(0.78-1.30) 0.97(0.78-1.30) 0.97(0.78-1.30) 0.97(0.78-1.30) 0.97(0.57-1.00) 0.81(0.60-1.30) 1.30(0.94-1.70) 1.00(0.75-1.40) 0.81(0.59-1.10) 0.84(0.62-1.20) 1.30(0.97-1.80) 0.79(0.57-1.10) 0.83(0.59-1.20) 1.30(0.98-1.20) 1.30(0.98-1.80)
Ate Ate+Chemo	Ate Ate+Chemo Niv+Opi Niv+Chemo Niv+Opi Pem+Chemo Dur Ate+Chemo Niv+Ipi Pem+Chemo Dur Niv+Chemo Niv+Ipi Pem+Chemo Niv+Ipi Pem+Chemo Niv+Ipi Pem+Chemo Dur Niv+Ipi Pem+Chemo Dur Niv+Ipi Pem+Chemo Dur		484 vs. 366 300 vs. 220 176 vs. 186 187 vs. 186 222 vs. 162	0.80(0.68-0.95) 0.77(0.64-0.93) 0.78(0.82-0.96) 0.62(0.49-0.79) 0.65(0.51-0.83) 1.00(0.79-1.30) 1.00(0.74-1.30) 1.00(0.73-1.40) 0.81(0.58-1.10) 0.84(0.60-1.20) 1.30(0.94-1.90) 0.97(0.73-1.30) 0.77(0.57-1.00) 0.81(0.60-1.10) 1.30(0.94-1.70) 1.00(0.75-1.40) 0.81(0.50-1.10) 1.00(0.75-1.40) 0.81(0.50-1.10) 1.00(0.75-1.40) 0.81(0.50-1.10) 1.00(0.75-1.40) 0.81(0.50-1.10) 0.84(0.62-1.20) 1.30(0.97-1.80) 0.79(0.57-1.10) 0.83(0.59-1.20)
Ate Ate+Chemo Niv	Ate Ate+Chemo Niv+Opi Niv+Chemo Niv+Opi Pem+Chemo Niv+Ipi Pem+Chemo Dur Ate+Chemo Niv+Ipi Pem+Chemo Niv+Ipi Pem+Chemo Niv+Ipi Pem+Chemo Dur Niv+Ipi Pem+Chemo Dur Pem+Chemo Dur Pem+Chemo Dur		484 vs. 366 300 vs. 220 176 vs. 186 187 vs. 186 222 vs. 162	0.80(0.68-0.95) 0.77(0.64-0.93) 0.78(0.82-0.96) 0.62(0.49-0.79) 0.65(0.51-0.83) 1.00(0.79-1.30) 1.00(0.79-1.40) 1.00(0.73-1.40) 0.81(0.58-1.10) 0.84(0.50-1.20) 1.30(0.94-1.90) 0.97(0.73-1.30) 0.97(0.73-1.30) 0.77(0.57-1.00) 0.81(0.60-1.10) 1.30(0.94-1.70) 1.00(0.75-1.40) 0.81(0.50-1.10) 1.00(0.75-1.40) 0.81(0.59-1.10) 0.84(0.62-1.20) 1.30(0.97-1.80) 0.79(0.57-1.80) 0.79(0.57-1.10) 0.83(0.59-1.20) 1.30(0.93-1.80) 1.00(0.74-1.50)

Supplementary Figure 4. Network Meta-Analysis of Overall Survival (OS-NMA) in PD-L1 expression cohorts. (A) PD-L1≥50% cohort; (B) PD-L1 1-49% cohort; (C) PD-L1 <1% cohort.