

Supplementary Table 1: Summary of Ipilimumab related renal toxicities

<i>Reference</i>	<i>Patient Number</i>	<i>Time of onset of renal dysfunction in reference to starting Ipilimumab</i>	<i>Type of Cancer</i>	<i>Age(years)</i>	<i>Gender</i>	<i>Renal Pathology</i>	<i>Renal Outcomes</i>	<i>Cancer Outcome</i>
Thajudeen et al	1	12 weeks following treatment, developed rash, transaminitis and worsening renal failure with elevation of creatinine to 2.2mg/dl (baseline creatinine 1.1-1.2mg/dl)	Metastatic melanoma	74	Male	Granulomatous interstitial nephritis	Drug discontinued and steroid taper initiated, renal function stabilized at 1.4 mg/dl in 4 weeks	Unknown Drug was restarted 2 months after stabilization of creatinine
Izzedine et al	2	6 weeks following treatment, creatinine increased to 2.33 (baseline creatinine 0.68) Later diagnosed as DRESS	Metastatic melanoma	78	Male	Granulomatous interstitial nephritis	After 6 weeks of steroid taper, creatinine decreased to 1.0mg/dl	40% tumor reduction

Izzedine et al	3	6 weeks following treatment, noted to have AKI with elevation in creatinine to 3.06mg/dl (baseline 1.0mg/dl)	Metastatic melanoma	60	Female	Granulomatous interstitial nephritis (AIN with some ATN patterns and 2 non necrotizing epitheloid granulomas)	After 8 weeks of steroid taper, creatinine decreased to 1.3mg/dl	Unknown
Fadel et al	4	6 weeks following treatment, presented with nephrotic syndrome (baseline creatinine was 1.0mg/dl)	Metastatic melanoma	64	Male	Secondary immune complex membranous nephropathy(lupus like features)	Drug discontinued and steroid taper initiated. Resolved at 12 months Circulating anti dsDNA antibodies appeared concomitantly and regressed after ipilimumab was withdrawn.	Unknown

Forde et al	5	12 weeks following treatment, presented with oliguric AKI with creatinine elevated at 1.66mg/dl (baseline creatinine was 0.6mg/dl). Also had granular casts on urine sediment analysis	Metastatic melanoma	59	Male	Biopsy not performed	Creatinine decreased to 0.7mg/dl after 1 week of steroid treatment	Complete response
Voskens et al	6	8 weeks following treatment, presented with AKI with creatinine elevated to 4.3 mg/dl (baseline creatinine <1.2)	Metastatic melanoma	53	Female	Result of biopsy unavailable	Drug was stopped and steroids were initiated. AKI resolved with steroids	Complete regression of most melanoma metastases, Stable metastatic disease in left kidney, Disease progression in right kidney
Kidd et al	7	Unclear time course but presented with nephrotic syndrome and elevation of creatinine to 2.97mg/dl (baseline	Metastatic melanoma	55	Male	Minimal change disease + AIN	With high dose steroid therapy, renal function improved and nephrotic syndrome resolved	Unknown

		creatinine 1.2mg/dl)						
Barnard et al	8	8 weeks following treatment, noted to have hyponatremia due to panhypopituitarism from ipilimumab related hypophysitis	Metastatic melanoma	75	Female	NA	Resolution of hyponatremia after treatment with steroids, fluid restriction and hypertonic saline	Unknown
Chodakiewicz et al	9	8 weeks following treatment, hyponatremia due to panhypopituitarism from ipilimumab related hypophysitis	Metastatic BRAF mutant melanoma	65	Female	NA	Sodium levels improved with IV normal saline and dexamethasone	Unknown

Cortazar et al	10	8 weeks following initiation of treatment	Melanoma	70	Male	Granulomatous AIN	Partial recovery of renal function and then started on Pembrolizumab with no AKI	NA
Cortazar et al	11	10 weeks following initiation of treatment	Melanoma	62	Female	AIN	Got conservative management and no steroids- no recovery and was not re-challenged	NA
Cortazar et al	12	26 weeks following initiation of treatment	Pancreatic cancer	64	Male	AIN	Dialysis dependent on start of AKI, Got steroids and no recovery	NA

Cortazar et al	13	22 weeks following initiation of treatment	Melanoma	58	Male	Thrombotic microangiopathy	Needed HD in few weeks following AKI, Got steroids, no recovery	NA
Cortazar et al	14	12 weeks following treatment	Hodgkin Lymphoma	32	Female	AIN	Got conservative management and no recovery	NA
Cortazar et al	15	8 weeks following treatment	Melanoma	73	Female	AIN	Steroid given, partial recovery	NA

ATN: Acute tubular necrosis; AKI: Acute kidney injury; NA: Not available