Case number	Comorbidity	Steroid	ARV	Presenting features	9 am Cortisol (nmol/L)	AI on SST at presentation	Endo Input	Management	Adrenal crisis advice given?	Biochemical Evidence of HPA axis recovery?	
Centre A, cohort size: 3,300; number of cortisol requests in 9 months: unknown											
1	Disc prolapse & radiculopathy	InjTAC 40mg X4	ATV/r KIV	Cushing's Syndrome night sweat and polyuria & polydipsia	<10	Y	Y	 ART switched to KIV/RAL HC replacement at 10 mg BD for 11 weeks then 10 mg daily for 10 weeks 	Υ	Y, 18 weeks	
2	COPD	inhFLU + PRED	ATV/r TVD	Cushing's Syndrome inc low mood	ND – SST done directly	Υ	Υ	 inhFLU stopped ART switched to TVD/RAL/MVC HC replacement at 10 mg/5 mg/5 mg for 48 weeks, then 10 mg daily for 24 weeks 	Υ	Y, 73 weeks	
3	Chronic Sinusitis	nFLU	DRV/r TVD	Cushing's Syndrome	<10	Υ	Υ	 Switch ART to TVD/RAL HC replacement at 10 mg BD for 45 weeks 	Υ	Y, 40 weeks	
Centre B, cohort size: 4,117; number of cortisol requests in 9 months: 18											
4	Asthma	inhFLU,	LPV/r Tenofovir	Cushing's Syndrome inc new HTN, Cataracts	GP	GP	N	inhFLU, stoppedHC replacement, dose not given	N	ND	
5	Asthma	inhFLU,	DRV/r TVD	Cushing's Syndrome inc new HTN	11	ND: assessed clinically	Υ	 Switched to BEC HC replacement 10 mg 1 week then 5 mg 1 week 	Υ	Y On review at 12 weeks	
6	Asthma OA	inhFLU plus injTAC	DRV/r mono	Fatigue	76	ND: assessed clinically	N	inhFLU stoppedinjTAC ceasedmonitored only	N	ND	

7	Asthma	inhFLU	ATV/r TVD	Cushing's Syndrome	39	Υ	Υ	•	inhFLU stopped ART switched to Truv/ETV HC replacement 10 mg 1 week then reduced 5 mg 1 week	Y	ND
8	Bronchiectasis	inhFLU	ATV/r TVD	Fatigue	GP	GP	N	•	inhFLU stopped	NA	ND
9	Asthma	inhFLU	DRV/r TVD	Fatigue, weight loss	ND-SST done directly	Y	Y	•	inhFLU switched to inhBUD post ICS HC replacement 10 mg 1 week then reduced 5 mg 1 week ART switched to TDF/MVC/RAL	Y	Y On review at 26 weeks
10	Shoulder OA	InjTAC	DRV/r mono	Fatigue	4-40	Υ	Υ	•	injTAC ceased HC replacement 10 mg maintained	N	ND
11	Vertebral OA	InjTAC	DRV/r mono	Fatigue	30	Υ	N	•	injTAC ceased Monitored only	N	Y On review at 26 weeks
12	SLE	InjTAC	ATV/r TVD	Cushing's Syndrome	ND - SST done directly	Υ	Υ	•	injTAC ceased HC replacement 10 mg maintained	N	Y On review at 26 weeks
Centre C, cohort size: 7,700; number of cortisol requests in 9 months: 82											
13	TB IRIS	PRED	DRV/r KIV	Cushing's Syndrome	<20	ND Assessed clinically	N	•	PRED stopped	N	ND
14	Eosninophilic Folliculitis Keratosis	topEUM + topFA	LPV/r 3TC	Addisonian crisis	30	Υ	Υ	•	Topical steroids stopped HC replacement (at 10/5/5 mg for 25 weeks followed	У	Y – at 3 years 9 months, after extended

	Pilaris							by 10/5 mg for 3 10/2.5 mg for 5 and 5/5 mg for FC 50 μg	8 weeks,	monitoring
15	Tendinosis	injTAC 40 mg x3	DRV/r mono	Adrenal insufficiency	<20	Υ	N	injTAC ceasedMonitored only	N	ND
16	Asthma	inhFLU	ATV/R TVD	Cushing's Syndrome	301	ND Assessed clinically	N	 inhFLU stopped 	N	ND
17	OA	injTAC 40 mg x3	DRV/R 3TC	Cushing's Syndrome inc Osteoporosis, AVN	16	ND Assessed clinically	N	ART switched to	TVD/RAL N	ND
18	Seronegative arthropathy COPD	PRED + injTAC + InjMPRED (multiple)	SAQ/R TVD	Cushing's Syndrome inc osteoporosis, high BMs, OSA	23	ND Assessed clinically	Υ	 ART switched to TVD/ETV/RAL HC replacement maintained PRED switched 	t 10 mg BD	N – remains unrecovered at time of writing
19	Asthma	inhFLU	DRV/r mono	Cushing's Syndrome	228	ND Assessed clinically	N	ART switched to	EVP N	ND

Table S1. Summary and management of ICS and SAI resulting from ritonavir/glucocorticoid interactions in three large London HIV centres (evaluation period: 01/01/12–30/09/12)

ND = not done; inhBUD = inhaled budenoside; inhFLU = inhaled fluticasone; nFLU = nasal fluticasone; BEC = beclamethasone; HC = hydrocortisone; PRED = prednisolone; injTAC = injected triamcinolone; InjMPRED = injected methylprednisolone (depomedrone); topEUM = topical eumovate; topFA = topical fluocinolone acetonide; FC = fludrocortisone; SAB = subacromial bursitis; COPD = chronic obstructive pulmonary disease; OA = osteoarthritis; LE = lateral epicondylitis; HTN = hypertension; OSA = obstructive sleep apnoea; AVN = avascular necrosis; HTN = hypertension; TB IRIS = tuberculosis-associated immune reconstitution inflammatory syndrome; KIV = kivexa (abacavir+lamivudine); TVD = truvada (emtracitabine+tenofovir); TDF = tenofovir; DRV = darunavir; ATV = atazanavir; r = ritonavir; SQV = saquinavir; LPV = lopinavir; NVP = nevirapine; 3TC = lamivudine; MVC = maraviroc; RAL = raltegravir; EVP = eviplera; mono = boosted PI monotherapy; AI = adrenal insufficiency; N = no; Y = yes; GP = general practitioner; DMARDs = disease-modifying anti-rheumatic drugs