



**Dataset: Evaluation of new semi-quantitative cryptococcal antigen Immy
(immunochromatographic) SQ (semi-quantitative) and Biosynex tests in
plasma for detection of subclinical cryptococcal meningitis in HIV
positive patients with CD4 <100**

Department: Biomedical Sciences

Master of Science in Biomedical Technology

Cape Peninsula University of Technology

Dataset 1: Cryptococcal antigen qualitative and semi-quantitative results for the 194 plasma samples tested using the SQ, CryptoPS, enzyme immunoassay and lateral flow assay

Study ID	SQ result	SQ score	CryptoPS result	Enzyme immunoassay result	Lateral flow assay result	LFA titre
SC001	Negative	No score	Negative	Negative	Negative	No titre
SC002	Negative	No score	Negative	Negative	Negative	No titre
SC003	Negative	No score	Negative	Negative	Negative	No titre
SC004	Negative	No score	Positive	Negative	Negative	No titre
SC005	Negative	No score	Negative	Negative	Negative	No titre
SC006	Negative	No score	Positive	Negative	Negative	No titre
SC007	Negative	No score	Negative	Negative	Negative	No titre
SC008	Negative	No score	Negative	Negative	Negative	No titre
SC009	Negative	No score	Negative	Negative	Negative	No titre
SC010	Negative	No score	Negative	Negative	Negative	No titre
SC011	Negative	No score	Negative	Negative	Negative	No titre
SC012	Negative	No score	Negative	Negative	Negative	No titre
SC013	Negative	No score	Negative	Negative	Negative	No titre
SC014	Negative	No score	Negative	Negative	Negative	No titre
SC015	Negative	No score	Negative	Negative	Negative	No titre
SC016	Negative	No score	Negative	Negative	Negative	No titre
SC017	Negative	No score	Negative	Negative	Negative	No titre
SC018	Negative	No score	Negative	Negative	Negative	No titre
SC019	Negative	No score	Negative	Negative	Negative	No titre
SC020	Negative	No score	Negative	Negative	Negative	No titre
SC021	Negative	No score	Negative	Negative	Negative	No titre
SC022	Negative	No score	Negative	Negative	Negative	No titre
SC023	Negative	No score	Positive	Negative	Negative	No titre
SC024	Negative	No score	Negative	Negative	Negative	No titre
SC025	Negative	No score	Negative	Negative	Negative	No titre
SC026	Negative	No score	Negative	Negative	Negative	No titre
SC027	Negative	No score	Negative	Negative	Negative	No titre

Study ID	SQ result	SQ score	CryptoPS result	Enzyme immunoassay result	Lateral flow assay result	LFA titre
SC028	Negative	No score	Negative	Negative	Negative	No titre
SC029	Negative	No score	Negative	Negative	Negative	No titre
SC30	Negative	No score	Negative	Negative	Negative	No titre
SC031	Negative	No score	Negative	Negative	Negative	No titre
SC032	Negative	No score	Negative	Negative	Negative	No titre
SC033	Negative	No score	Negative	Negative	Negative	No titre
SC034	Negative	No score	Negative	Negative	Negative	No titre
SC035	Negative	No score	Negative	Negative	Negative	No titre
SC036	Negative	No score	Negative	Negative	Negative	No titre
SC037	Negative	No score	Negative	Negative	Negative	No titre
SC038	Negative	No score	Negative	Negative	Negative	No titre
SC039	Negative	No score	Negative	Negative	Negative	No titre
SC040	Negative	No score	Negative	Negative	Negative	No titre
SC041	Negative	No score	Negative	Negative	Negative	No titre
SC042	Negative	No score	Negative	Negative	Negative	No titre
SC043	Negative	No score	Negative	Negative	Negative	No titre
SC044	Negative	No score	Negative	Negative	Negative	No titre
SC045	Negative	No score	Negative	Negative	Negative	No titre
SC046	Negative	No score	Negative	Negative	Negative	No titre
SC047	Negative	No score	Negative	Negative	Negative	No titre
SC048	Negative	No score	Negative	Negative	Negative	No titre
SC049	Negative	No score	Negative	Negative	Negative	No titre
SC050	Negative	No score	Negative	Negative	Negative	No titre
SC051	Negative	No score	Negative	Negative	Negative	No titre
SC052	Negative	No score	Negative	Negative	Negative	No titre
SC053	Negative	No score	Negative	Negative	Negative	No titre
SC054	Negative	No score	Negative	Negative	Negative	No titre
SC055	Negative	No score	Negative	Negative	Negative	No titre
SC056	Negative	No score	Negative	Negative	Negative	No titre

Study ID	SQ result	SQ score	CryptoPS result	Enzyme immunoassay result	Lateral flow assay result	LFA titre
SC057	Negative	No score	Negative	Negative	Negative	No titre
SC058	Negative	No score	Negative	Negative	Negative	No titre
SC059	Negative	No score	Negative	Negative	Negative	No titre
SC060	Negative	No score	Negative	Negative	Negative	No titre
SC061	Negative	No score	Negative	Negative	Negative	No titre
SC062	Negative	No score	Negative	Negative	Negative	No titre
SC063	Negative	No score	Negative	Negative	Negative	No titre
SC064	Negative	No score	Negative	Negative	Negative	No titre
SC065	Negative	No score	Negative	Negative	Negative	No titre
SC066	Negative	No score	Negative	Negative	Negative	No titre
SC067	Negative	No score	Negative	Negative	Negative	No titre
SC068	Negative	No score	Positive	Negative	Negative	No titre
SC069	Negative	No score	Negative	Negative	Negative	No titre
SC070	Negative	No score	Negative	Negative	Negative	No titre
SC071	Negative	No score	Positive	Negative	Negative	No titre
SC072	Negative	No score	Negative	Negative	Negative	No titre
SC073	Negative	No score	Negative	Negative	Negative	No titre
SC074	Negative	No score	Negative	Negative	Negative	No titre
SC075	Negative	No score	Negative	Negative	Negative	No titre
SC076	Negative	No score	Negative	Negative	Negative	No titre
SC077	Negative	No score	Negative	Negative	Negative	No titre
SC078	Negative	No score	Negative	Negative	Negative	No titre
SC079	Negative	No score	Negative	Negative	Negative	No titre
SC080	Negative	No score	Negative	Negative	Negative	No titre
SC081	Negative	No score	Negative	Negative	Negative	No titre
SC082	Negative	No score	Negative	Negative	Negative	No titre
SC083	Negative	No score	Negative	Negative	Negative	No titre
SC084	Negative	No score	Negative	Negative	Negative	No titre
SC085	Negative	No score	Negative	Negative	Negative	No titre

Study ID	SQ result	SQ score	CryptoPS result	Enzyme immunoassay result	Lateral flow assay result	LFA titre
SC086	Negative	No score	Negative	Negative	Negative	No titre
SC087	Negative	No score	Negative	Negative	Negative	No titre
SC088	Negative	No score	Negative	Negative	Negative	No titre
SC089	Negative	No score	Negative	Negative	Negative	No titre
SC090	Negative	No score	Negative	Negative	Negative	No titre
SC091	Negative	No score	Negative	Negative	Negative	No titre
SC092	Negative	No score	Negative	Negative	Negative	No titre
SC093	Negative	No score	Negative	Negative	Negative	No titre
SC094	Negative	No score	Negative	Negative	Negative	No titre
SC095	Negative	No score	Negative	Negative	Negative	No titre
SC096	Negative	No score	Positive	Negative	Positive	20
SC097	Negative	No score	Negative	Negative	Negative	No titre
SC098	Negative	No score	Negative	Negative	Negative	No titre
SC099	Negative	No score	Negative	Negative	Negative	No titre
SC100	Negative	No score	Negative	Negative	Negative	No titre
SC101	Negative	No score	Negative	Negative	Negative	No titre
SC102	Negative	No score	Negative	Negative	Negative	No titre
SC103	Negative	No score	Negative	Negative	Negative	No titre
SC104	Negative	No score	Negative	Negative	Negative	No titre
SC105	Negative	No score	Negative	Negative	Negative	No titre
SC106	Negative	No score	Negative	Negative	Negative	No titre
SC107	Negative	No score	Negative	Negative	Negative	No titre
SC108	Negative	No score	Negative	Negative	Negative	No titre
SC109	Negative	No score	Negative	Negative	Negative	No titre
SC110	Positive	4	Strong Positive	Positive	Positive	2560
SC111	Positive	2	Positive	Positive	Positive	80
SC112	Positive	3	Positive	Positive	Positive	40
SC113	Negative	No score	Negative	Negative	Negative	No titre
SC114	Positive	3	Positive	Positive	Positive	40

Study ID	SQ result	SQ score	CryptoPS result	Enzyme immunoassay result	Lateral flow assay result	LFA titre
SC115	Positive	3	Strong Positive	Positive	Positive	320
SC116	Positive	3	Strong Positive	Positive	Positive	5120
SC117	Positive	3	Strong Positive	Positive	Positive	327680
SC118	Positive	1	Positive	Positive	Positive	5
SC119	Positive	1	Negative	Negative	Positive	1
SC120	Positive	1	Positive	Positive	Positive	40
SC121	Positive	1	Negative	Positive	Positive	10
SC122	Positive	4	Strong Positive	Positive	Positive	10240
SC123	Positive	3	Strong Positive	Positive	Positive	80
SC124	Positive	1	Positive	Positive	Positive	40
SC125	Positive	2	Positive	Positive	Positive	5
SC126	Positive	3	Positive	Positive	Positive	10
SC127	Positive	2	Positive	Positive	Positive	10
SC128	Positive	2	Positive	Positive	Positive	20
SC129	Positive	1	Negative	Positive	Positive	1
SC130	Positive	3	Strong Positive	Positive	Positive	160
SC131	Positive	2	Positive	Positive	Positive	320
SC132	Positive	1	Positive	Positive	Positive	1
SC133	Positive	1	Positive	Positive	Positive	10
SC134	Positive	1	Positive	Positive	Positive	10
SC135	Positive	4	Strong Positive	Positive	Positive	81920
SC136	Positive	3	Strong Positive	Positive	Positive	10240
SC137	Positive	3	Strong Positive	Positive	Positive	160
SC138	Positive	4	Positive	Positive	Positive	163840
SC139	Positive	1	Positive	Positive	Positive	5
SC140	Positive	3	Strong Positive	Positive	Positive	10240
SC141	Negative	No score	Negative	Negative	Negative	No titre
SC142	Negative	No score	Negative	Negative	Negative	No titre
SC143	Negative	No score	Negative	Negative	Negative	No titre

Study ID	SQ result	SQ score	CryptoPS result	Enzyme immunoassay result	Lateral flow assay result	LFA titre
SC144	Negative	No score	Positive	Negative	Negative	No titre
SC145	Positive	3	Positive	Positive	Positive	640
SC146	Positive	3	Strong Positive	Positive	Positive	80
SC147	Negative	No score	Negative	Negative	Negative	No titre
SC148	Negative	No score	Positive	Negative	Negative	No titre
SC149	Negative	No score	Positive	Negative	Negative	No titre
SC150	Negative	No score	Negative	Negative	Negative	No titre
SC151	Positive	3	Positive	Positive	Positive	160
SC152	Negative	No score	Negative	Negative	Negative	No titre
SC153	Positive	1	Positive	Positive	Positive	5
SC154	Positive	1	Positive	Positive	Positive	1
SC155	Positive	4	Strong Positive	Positive	Positive	5120
SC156	Positive	1	Negative	Positive	Positive	5
SC157	Positive	3	Strong Positive	Positive	Positive	1280
SC158	Positive	3	Positive	Positive	Positive	40
SC159	Positive	3	Positive	Positive	Positive	80
SC160	Positive	1	Positive	Positive	Positive	80
SC161	Positive	3	Positive	Positive	Positive	80
SC162	Positive	1	Positive	Positive	Positive	5
SC163	Positive	4	Strong Positive	Positive	Positive	5120
SC164	Positive	1	Positive	Positive	Positive	5
SC165	Positive	4	Strong Positive	Positive	Positive	1280
SC166	Positive	2	Negative	Positive	Positive	10
SC167	Positive	2	Positive	Positive	Positive	20
SC168	Positive	1	Negative	Positive	Positive	10
SC169	Positive	3	Strong Positive	Positive	Positive	1280
SC170	Positive	2	Positive	Positive	Positive	10
SC171	Negative	No score	Negative	Negative	Negative	No titre
SC172	Negative	No score	Negative	Negative	Negative	No titre

Study ID	SQ result	SQ score	CryptoPS result	Enzyme immunoassay result	Lateral flow assay result	LFA titre
SC173	Negative	No score	Negative	Negative	Negative	No titre
SC174	Negative	No score	Negative	Negative	Negative	No titre
SC175	Negative	No score	Negative	Negative	Negative	No titre
SC176	Negative	No score	Negative	Negative	Negative	No titre
SC177	Negative	No score	Negative	Negative	Negative	No titre
SC178	Negative	No score	Negative	Negative	Negative	No titre
SC179	Negative	No score	Negative	Negative	Negative	No titre
SC180	Negative	No score	Negative	Negative	Negative	No titre
SC181	Negative	No score	Negative	Negative	Negative	No titre
SC182	Negative	No score	Negative	Negative	Negative	No titre
SC183	Negative	No score	Negative	Negative	Negative	No titre
SC184	Negative	No score	Negative	Negative	Negative	No titre
SC185	Negative	No score	Negative	Negative	Negative	No titre
SC186	Negative	No score	Negative	Negative	Negative	No titre
SC187	Positive	2	Positive	Positive	Positive	20
SC188	Positive	3	Strong Positive	Positive	Positive	80
SC189	Positive	4	Positive	Positive	Positive	640
SC190	Positive	3	Strong Positive	Positive	Positive	160
SC191	Positive	3	Strong Positive	Positive	Positive	2560
SC192	Positive	2	Positive	Positive	Positive	40
SC193	Positive	3	Positive	Positive	Positive	1
CS194	Positive	3	Strong Positive	Positive	Positive	10240

Dataset 2: Cryptococcal antigenaemia and cryptococcus culture results for the 10 patients with lumbar puncture and subclinical cryptococcal meningitis

Study ID	SQ result	SQ score	CryptoPS result	Enzyme immunoassay result	Lateral flow assay result	LFA titre	Cryptococcus culture
SC110	Positive	4	Strong Positive	Positive	Positive	2560	Positive
SC117	Positive	3	Strong Positive	Positive	Positive	327680	Positive
SC135	Positive	4	Strong Positive	Positive	Positive	81920	Positive
SC136	Positive	3	Strong Positive	Positive	Positive	10240	Positive
SC138	Positive	4	Positive	Positive	Positive	163840	Positive
SC140	Positive	3	Strong Positive	Positive	Positive	10240	Positive
SC157	Positive	3	Strong Positive	Positive	Positive	1280	Positive
SC163	Positive	4	Strong Positive	Positive	Positive	5120	Positive
SC165	Positive	4	Strong Positive	Positive	Positive	1280	Positive
SC188	Positive	3	Strong Positive	Positive	Positive	80	Positive

Dataset 3: Cryptococcal antigenaemia and cryptococcus culture results for the 50 patients with lumbar puncture and no subclinical cryptococcal meningitis

Study ID	SQ result	SQ score	CryptoPS result	Enzyme immunoassay result	Lateral flow assay result	LFA titre	Culture result
SC111	Positive	2	Positive	Positive	Positive	80	Negative
SC112	Positive	3	Positive	Positive	Positive	40	Negative
SC114	Positive	3	Positive	Positive	Positive	40	Negative
SC115	Positive	3	Strong Positive	Positive	Positive	320	Negative
SC116	Positive	3	Strong Positive	Positive	Positive	5120	Negative
SC118	Positive	1	Positive	Positive	Positive	5	Negative
SC119	Positive	1	Negative	Negative	Positive	1	Negative
SC120	Positive	1	Positive	Positive	Positive	40	Negative
SC121	Positive	1	Negative	Positive	Positive	10	Negative
SC122	Positive	4	Strong Positive	Positive	Positive	10240	Negative
SC123	Positive	3	Strong Positive	Positive	Positive	80	Negative
SC125	Positive	2	Positive	Positive	Positive	5	Negative
SC126	Positive	3	Positive	Positive	Positive	10	Negative
SC127	Positive	2	Positive	Positive	Positive	10	Negative
SC128	Positive	2	Positive	Positive	Positive	20	Negative
SC129	Positive	1	Negative	Positive	Positive	1	Negative
SC130	Positive	3	Strong Positive	Positive	Positive	160	Negative
SC131	Positive	2	Positive	Positive	Positive	320	Negative
SC132	Positive	1	Positive	Positive	Positive	1	Negative
SC133	Positive	1	Positive	Positive	Positive	10	Negative
SC134	Positive	1	Positive	Positive	Positive	10	Negative
SC137	Positive	3	Strong Positive	Positive	Positive	160	Negative
SC139	Positive	1	Positive	Positive	Positive	5	Negative
SC145	Positive	3	Positive	Positive	Positive	640	Negative
SC146	Positive	3	Strong Positive	Positive	Positive	80	Negative
SC151	Positive	3	Positive	Positive	Positive	160	Negative
SC153	Positive	1	Positive	Positive	Positive	5	Negative
SC154	Positive	1	Positive	Positive	Positive	1	Negative
SC155	Positive	4	Strong Positive	Positive	Positive	5120	Negative
SC156	Positive	1	Negative	Positive	Positive	5	Negative
SC159	Positive	3	Positive	Positive	Positive	80	Negative
SC160	Positive	1	Positive	Positive	Positive	80	Negative
SC161	Positive	3	Positive	Positive	Positive	80	Negative

SC162	Positive	1	Positive	Positive	Positive	5	Negative
SC166	Positive	2	Negative	Positive	Positive	10	Negative
SC167	Positive	2	Positive	Positive	Positive	20	Negative
SC169	Positive	3	Strong Positive	Positive	Positive	1280	Negative
SC170	Positive	2	Positive	Positive	Positive	10	Negative
SC189	Positive	4	Positive	Positive	Positive	640	Negative
SC190	Positive	3	Strong Positive	Positive	Positive	160	Negative