

Supplementary file 4.0**Synovial fluid/Serum IFN-alpha measurement**

Patient demographics:

5 RA patients had matched synovial fluid and serum measurements of IFN- α performed. Median age 70, range 58-74 with a male:female ratio of 1:4. Three patients were seropositive for both ACPA and RF, one was seronegative and data was unavailable for one patient. Four patients had established RA (disease duration >12 months) and were receiving the following therapies, Adalimumab (n=1), Methotrexate and Sulphasalazine (n=1) and methotrexate and hydroxychloroquine (n=2). One was eRA and sampling taken at time of diagnosis pre initiation of DMARDs.