

**Supplementary Table S1.** Enrolment age, date, treatment, and ESSDAI score of 40 patients.

| Patient | Enrolment age | Enrolment date<br>(Sample collection date) | Treatment           | ESSDAI score |
|---------|---------------|--------------------------------------------|---------------------|--------------|
| 1.      | 49            | 2018/12/5                                  | 1. MTX              | 27           |
| 2.      | 56            | 2019/2/27                                  | 1. Salagen 15mg     |              |
|         |               |                                            | 2. HCQ 400mg        | 5            |
| 3.      | 43            | 2019/9/4                                   | 1. Evoxac 60 mg     | 1            |
| 4.      | 63            | 2019/9/18                                  | 1. HCQ 400mg        | 2            |
| 5.      | 65            | 2019/8/28                                  | 1. NSAID            | 6            |
| 6.      | 43            | 2019/9/18                                  | 1. Nil              | 9            |
| 7.      | 62            | 2019/9/11                                  | 1. NSAID            | 4            |
| 8.      | 72            | 2019/9/20                                  | 1. Nil              | 8            |
| 9.      | 50            | 2019/9/19                                  | 1. Nil              | 6            |
| 10.     | 62            | 2019/9/20                                  | 1. Salagen 15 mg    | 0            |
| 11.     | 76            | 2019/9/25                                  | 1. Nil              | 10           |
| 12.     | 52            | 2019/9/27                                  | 1. Nil              | 5            |
| 13.     | 68            | 2019/9/4                                   | 1. Nil              | 0            |
| 14.     | 68            | 2019/8/28                                  | 1. Nil              | 6            |
| 15.     | 63            | 2019/8/30                                  | 1. Evoxac 90mg      |              |
|         |               |                                            | 2. Arava 10mg       | 0            |
| 16.     | 77            | 2019/9/18                                  | 1. Evoxac 60mg      |              |
|         |               |                                            | 2. HCQ 400mg        | 2            |
| 17.     | 62            | 2019/9/4                                   | 1. Nil              | 0            |
| 18.     | 52            | 2019/9/11                                  | 1. Salagen 45mg     |              |
|         |               |                                            | 2. HCQ 400mg        |              |
|         |               |                                            | 3. Prednisolone 5ng | 9            |
| 19.     | 38            | 2019/9/4                                   | 1. Salagen 30mg     |              |
|         |               |                                            | 2. HCQ 200mg        | 4            |
| 20.     | 51            | 2019/8/28                                  | 1. Evoxac 90mg      | 2            |
| 21.     | 65            | 2019/9/25                                  | 1. Nil              | 6            |
| 22.     | 65            | 2019/9/18                                  | 1. Salagen 45mg     | 4            |
| 23.     | 65            | 2019/8/30                                  | 1. Nil              | 6            |
| 24.     | 74            | 2019/8/29                                  | 1. Nil              | 4            |
| 25.     | 48            | 2019/8/28                                  | 1. Imuran           |              |
|         |               |                                            | 2. NSAID            | 8            |
| 26.     | 36            | 2019/8/21                                  | 1. HCQ 400mg        |              |
|         |               |                                            | 2. NSAID            | 5            |
| 27      | 63            | 2019/11/1                                  | 1. Evoxac 60mg      |              |
|         |               |                                            | 2. HCQ 400mg        | 4            |
| 28      | 57            | 2020/5/26                                  | 1. Nil              | 5            |
| 29      | 55            | 2021/5/11                                  | 1. Nil              | 8            |
| 30      | 56            | 2021/4/20                                  | 1. Salagen 45mg     | 8            |
| 31      | 43            | 2021/4/20                                  | 1. Evoxac 60mg      |              |
|         |               |                                            | 2. HCQ 400mg        | 4            |
| 32      | 70            | 2021/5/12                                  | 1. Nil              | 12           |
| 33      | 71            | 2021/8/13                                  | 1. Nil              | 4            |
| 34      | 57            | 2021/8/19                                  | 1. HCQ 200mg        | 10           |
| 35      | 57            | 2021/9/30                                  | 1. Nil              | 9            |
| 36      | 43            | 2022/1/5                                   | 1. Salagen 45mg     | 7            |
| 37      | 70            | 2022/1/7                                   | 1. Nil              | 7            |
| 38      | 63            | 2022/1/11                                  | 1. Nil              | 3            |
| 39      | 62            | 2022/1/18                                  | 1. Evoxac 60mg      |              |
|         |               |                                            | 2. HCQ 400mg        | 2            |
| 40.     | 45            | 2022/1/28                                  | 1. Nil              | 8            |

MTX: methotrexate; HCQ: hydroxychloroquine; NSAID: non-steroidal anti-inflammatory drugs.

Supplementary Table S2. The ESSDAI score of 40 patients.

| Patient | ESSDAI score | Constitutional | Lymphadenopathy | Glandular | Articular | Cutaneous | Pulmonary | Renal | Muscular | Peripheral nervous system | Central nervous system | Haematological | Biological |
|---------|--------------|----------------|-----------------|-----------|-----------|-----------|-----------|-------|----------|---------------------------|------------------------|----------------|------------|
| 1.      | 27           | 0              | 0               | 0         | 4         | 3         | 15        | 0     | 0        | 0                         | 0                      | 4              | 1          |
| 2.      | 5            | 0              | 0               | 0         | 2         | 0         | 0         | 0     | 0        | 0                         | 0                      | 2              | 1          |
| 3.      | 1            | 0              | 0               | 0         | 0         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 1          |
| 4.      | 2            | 0              | 0               | 0         | 2         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 0          |
| 5.      | 6            | 0              | 4               | 0         | 0         | 0         | 0         | 0     | 0        | 0                         | 0                      | 5              | 0          |
| 6.      | 9            | 0              | 4               | 0         | 0         | 3         | 0         | 0     | 0        | 0                         | 0                      | 2              | 0          |
| 7.      | 4            | 0              | 0               | 0         | 4         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 0          |
| 8.      | 8            | 0              | 0               | 4         | 0         | 0         | 0         | 0     | 0        | 0                         | 0                      | 4              | 0          |
| 9.      | 6            | 0              | 0               | 6         | 0         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 0          |
| 10.     | 0            | 0              | 0               | 0         | 0         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 0          |
| 11.     | 10           | 0              | 0               | 0         | 0         | 0         | 10        | 0     | 0        | 0                         | 0                      | 0              | 0          |
| 12.     | 5            | 0              | 0               | 0         | 0         | 0         | 5         | 0     | 0        | 0                         | 0                      | 0              | 0          |
| 13.     | 0            | 0              | 0               | 0         | 0         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 0          |
| 14.     | 6            | 0              | 0               | 0         | 4         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 2          |
| 15.     | 0            | 0              | 0               | 0         | 0         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 0          |
| 16.     | 2            | 0              | 0               | 0         | 0         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 2          |
| 17.     | 0            | 0              | 0               | 0         | 0         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 0          |
| 18.     | 9            | 0              | 8               | 0         | 0         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 1          |
| 19.     | 4            | 0              | 0               | 0         | 4         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 0          |
| 20.     | 2            | 0              | 0               | 0         | 2         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 0          |
| 21.     | 6            | 0              | 4               | 0         | 2         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 0          |
| 22.     | 4            | 0              | 0               | 0         | 4         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 0          |
| 23.     | 6            | 0              | 0               | 0         | 0         | 0         | 5         | 0     | 0        | 0                         | 0                      | 0              | 4          |
| 24.     | 4            | 0              | 0               | 0         | 4         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 0          |
| 25.     | 8            | 0              | 4               | 0         | 0         | 3         | 0         | 0     | 0        | 0                         | 0                      | 0              | 1          |
| 26.     | 5            | 0              | 0               | 0         | 4         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 1          |
| 27.     | 4            | 0              | 4               | 0         | 0         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 0          |
| 28.     | 5            | 0              | 0               | 0         | 4         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 1          |
| 29.     | 8            | 0              | 0               | 0         | 4         | 0         | 0         | 0     | 0        | 0                         | 0                      | 2              | 2          |
| 30.     | 8            | 3              | 0               | 0         | 0         | 0         | 5         | 0     | 0        | 0                         | 0                      | 0              | 0          |
| 31.     | 4            | 0              | 4               | 0         | 0         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 0          |
| 32.     | 12           | 0              | 0               | 0         | 0         | 0         | 10        | 0     | 0        | 0                         | 0                      | 2              | 0          |
| 33.     | 4            | 0              | 0               | 0         | 2         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 2          |
| 34.     | 10           | 6              | 0               | 0         | 0         | 0         | 0         | 0     | 0        | 0                         | 0                      | 4              | 0          |
| 35.     | 9            | 0              | 0               | 0         | 4         | 0         | 0         | 0     | 0        | 0                         | 0                      | 4              | 1          |
| 36.     | 7            | 3              | 4               | 0         | 0         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 0          |
| 37.     | 7            | 0              | 0               | 0         | 4         | 0         | 0         | 0     | 0        | 0                         | 0                      | 2              | 1          |
| 38.     | 3            | 3              | 0               | 0         | 0         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 0          |
| 39.     | 2            | 0              | 0               | 0         | 0         | 0         | 0         | 0     | 0        | 0                         | 0                      | 0              | 2          |
| 40.     | 8            | 0              | 0               | 0         | 0         | 6         | 0         | 0     | 0        | 0                         | 0                      | 0              | 2          |