Background: Rheumatoid Arthritis chronic systemic inflammatory disease of unknown cause. Characteristic of rheumatoid arthritis is to cause damage to the synovial membrane, joint, fatigue, and deformitas. Warm compress therapy is of the non pharmacological therapy to reduce pain. The warm compress action is done to smooth the blood circulation and relieve the pain. Provision of warm compress are done on joint inflammation. Objective: To know the effect of giving warm compress to reduce pain in rheumatoid arthritis sufferer in Puskesmas Ngoresan, Surakarta. Mahad; Descriptive research method with case study research design. Result: After a warm compress, Mrs. S decreased from pain scale 6 to pain scale 3 and Mrs. W from pain scale 5 to pain scale 3 after being given warm compress for 7 day. Conclusion; Warm compress proven to reduce the scale of pain.

Keyword: Rheumatism, Warm Compress, Pain