Abstract FRI0359 – Figure 1. Ln (natural log) odds ratio for damage transition vs time-adjusted mean of laboratory variables. Red region (95% CI) lying above the $y=0$ line indicates the risk is statically significant ($p<0.05$). Regression lines (blue) suggest the risk of damage increase is approximately proportional with the distance from normal pathology measure range.

Conclusions: Routine pathology measures were found to be proportionally associated with organ damage risk in SLE. The potential for the use of these measures as biomarkers, for example to generate an organ damage risk calculator for SLE, warrants further research.

Disclosure of Interest: None declared

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FRI0360 DISEASE SEVERITY OF PROLIFERATIVE LUPUS NEPHRITIS IN MAGHREBIANS

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Background: The negative influence of African-American ethnicity on the prognosis of lupus nephritis (LN) is well known but – to the best of our knowledge – the impact of Maghrebian ethnicity has never been evaluated, although the disease is purported to be quite prevalent and severe in North Africa.

Objectives: To study the influence of Maghrebian ethnicity on the clinical and pathological presentation of LN, the renal relapse rate, the renal and overall survival and the predictive value of an early proteinuria decrease for good long-term renal outcome in this population compared to native Europeans.

Methods: We retrospectively reviewed the files of an inception cohort of 194 patients with proliferative LN followed in 7 lupus centres belonging to three groups: Europeans living in Belgium/France (E; $n=111$), Maghrebians living in Europe, *in casu* Belgium/France (ME; $n=43$) and Maghrebians living in Morocco (MM; $n=40$). Baseline presentation was compared between these 3 groups but complete long-term outcome data were available only for E and ME patients.

Results: At presentation, clinical (gender, age, nephrotic syndrome, serum creatinine, eGFR, uP/C ratio) and pathological (ISN/RPS class) characteristics of LN did not differ between E, ME and MM patients. At one year, renal remission was met in 73%, 63% and 68% in E, ME and MM patients, respectively. Achievement of a target proteinuria below 0.7 g/day one year after treatment initiation was 76%, 63% and 68%, respectively. Nevertheless, while proteinuria measured at month 12 accurately predicted a serum creatinine value <1 mg/dl at 7 years in E patients, this was not the case in the ME group, in whom serum creatinine at month 12 performed better. Renal relapses were more common in ME patients (54%) than in E patients (29%) ($p<0.01$). Time to renal flare and to ESRD was shorter in ME patients compared to E patients ($p<0.0001$ and $p<0.05$, respectively) as shown in figure 1. At last follow-up, mean proteinuria, serum creatinine and eGFR did not differ between E and ME patients, nor did the percentage of patients who died or suffered from ESRD or permanent renal impairment.

Conclusions: Despite a similar disease profile at onset, the prognosis of LN is more severe in Maghrebians living in Europe compared to native Europeans, with a higher relapse rate and a shorter time to ESRD.

Disclosure of Interest: None declared

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FRI0361 PREGNANCY OUTCOMES AND THERAPY IN SYSTEMIC LUPUS ERYTHEMATOSUS: RESULTS FROM OUR 30 YEARS' EXPERIENCE PREGNANCY CLINIC

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Background: The outcome of Systemic Lupus Erythematosus (SLE) pregnancies has dramatically improved thanks to pregnancy planning, multidisciplinary management and close monitoring during pregnancy. In our experience, programmed pregnancies in SLE patients had similar rates of pregnancy losses as compared to general obstetric population, but there are still open issues on some pregnancy complications that more frequently affect SLE patients.

Objectives: To analyse the obstetric outcome of SLE patients, according to specific therapy received during pregnancy.

Methods: A monocentric, retrospective study of 98 SLE patients with a total of 134 pregnancies followed prospectively by multidisciplinary team (1987–2015). Adverse Pregnancy Outcomes (APOs) were defined as one of the followings: premature miscarriage (<10 th week), intrauterine fetal death (>10 th week), perinatal death (<30 th day of life), severe preterm birth (<34 th week) and preterm birth (between 34th–36th weeks). We also evaluated the frequency of other pregnancy complications such as preterm premature rupture of membranes (pPROM) and pre-eclampsia (PE).

Results: Among the 134 pregnancies (including 3 twin pregnancies), flares occurred in 10 (7.5%) and APOs in 39 (29.1%) cases (table 1). pPROM complicated 9 pregnancies, all resulted in preterm deliveries, including 3 severe preterm birth; PE complicated 6 pregnancies resulting in 2 preterm birth, 1 intrauterine fetal death, 1 perinatal death and 2 term birth. The rates of APOs, pPROM and PE were compared according to receiving or not a specific therapy: hydroxychloroquine (HCQ), low dose aspirin (LDA), immunosuppressant (IS) during the overall pregnancy and corticosteroids >35 mg/week (CS) during the 1 st, the 2nd and the 3rd trimester. No statistical significant association was found between a specific therapy and the rate of PE. HCQ and LDA did not significantly affected the rate of APOs or pPROM while pregnancies exposed to IS showed a higher frequency of APOs (47% vs 20%, $p.0003$), in particular premature miscarriages (16% vs 2%, $p.0007$). Pregnancies exposed to CS had higher frequency of APOs (1 st trimester 44% vs 28%, $p.015$; 2nd trimester 36% vs 13% $p.004$; 3rd trimester 34% vs 14%, $p.019$). Considering only the 120 pregnancies resulted in live birth, those exposed to CS had higher frequency of preterm birth (1 st trimester $p.006$; 2nd trimester $p.023$; 3rd trimester $p.011$) (table 2). In particular, pregnancies exposed to CS in the 1 st trimester had higher frequency of preterm birth on 34th–36th w ($p.017$), while pregnancies exposed in the 3rd trimester had a higher frequency of preterm birth before 34th w ($p.038$). Furthermore, a higher frequency of pPROM was observed in those exposed to CS (1 st trimester $p.001$; 2nd trimester $p.003$; 3rd trimester $p.001$).