Results Of the 2647 unique studies screened for inclusion, 266 full-texts were assessed for eligibility and 33 studies were included in qualitative data analysis. Among 28 studies of reproductive-aged women using HCs, 15/28 reported on >1 HC type. Oestrogen-containing contraceptives, mostly reflecting the combined-oral contraceptive pill, had a positive effect on the VM in 11/15 studies. The effect of progesterone-only contraceptives were less clear; of 21 studies, 8 showed a positive effect, 8 a negative effect and 5 a neutral effect. In particular, the effect of Depo-Provera was negative in 7, positive in 4, and neutral in 2 studies. All 5 studies investigating HRT-use demonstrated a positive influence of HRT-use on the VM.

Conclusion Exogenous sex steroids, particularly containing oestrogen, may play a role in supporting an optimal VM in both reproductive-aged and peri/post-menopausal women.

P081 **SIGNIFICANT DIFFERENCE IN MACROLIDE AND FLUOROQUINOLONE RESISTANCE IN MYCOPLASMA GENITALIUM IN METROPOLITAN AND OVERSEAS FRANCE IN 2018 AND 2019**

^{1,2}S Pereyre*, ¹C Laurier-Nadalié, ²C Le Roy, ²N Hénin, ¹M Gardette, ^{1,2}C Bébér. ¹National Reference Center for bacterial STI, Bordeaux university hospital, Bordeaux, France; ²University of Bordeaux, Bordeaux, France

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Background Limited macrolide and fluoroquinolone resistance data are available in France for *Mycoplasma genitalium*. The aim of this study was to investigate the prevalence of macrolide and fluoroquinolone resistance in *M. genitalium*-positive men and women seeking care in metropolitan and overseas France in 2018 and 2019.

Methods A one-month systematic prospective collection of *M. genitalium*-positive specimens was proposed between September 15th and October 15th 2018 and 2019 to metropolitan French diagnostic laboratories. A similar three-month collection between August 1st and October 31st 2018 and 2019 was proposed to overseas French microbiology diagnostic laboratories (La Réunion, Mayotte, French Guiana, French Polynesia, and New Caledonia). Macrolide resistance-associated mutations were detected using the ResistancePlus MG assay (SpeeDx) and 23S rRNA sequencing. Fluoroquinolone resistance-associated mutations in the parC gene were searched by sequencing.

Results A total of 1361 specimens from 1328 patients were analyzed. In metropolitan France, macrolide resistance was 42.9% and 34.7% in 2018 and 2019, respectively, and was significantly higher in men (59.6% and 52.4%) than in women (18.7% and 15.9%, respectively, $p < 0.001$). These percentages of macrolide resistance were significantly higher than those of 6.1% and 14.7% observed in overseas France in 2018 and 2019, respectively, ($p < 0.001$), with no significant difference between men and women.

Regarding fluoroquinolone resistance, rates of resistance were significantly higher in metropolitan France in 2018 and 2019 (16.1% and 14.9%, respectively) than in overseas France (1.3% and 2.6% in 2018 and 2019, respectively, $p < 0.001$). No difference was observed between men and women.

Conclusion Macrolide and fluoroquinolone resistance rates are high in metropolitan France and contrast with significant lower rates in overseas France. In metropolitan France,

macrolide resistance is up to 60% in men but three times lower in women, highlighting that gender and sexual behavior should be taken into account for the management of *M. genitalium* infections.

P082 **ASSESSING THE IMPACT OF THE CORONAVIRUS-19 (COVID-19) PANDEMIC ON INTERNET SEARCHES FOR SEXUALLY TRANSMITTED INFECTIONS IN THE UNITED STATES, 2019–2020**

L Haderxhanaj*, K Renfro, M Hogben, S Aral. Centers for Disease Control and Prevention, Atlanta, USA

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Background Novel approaches to monitoring sexually transmitted infections (STI) may contribute to understanding of STI rates and associated behaviors, especially during the coronavirus (COVID)-19 pandemic, when healthcare and surveillance systems are likely affected. Therefore, we explored public interest in STI-related internet search terms from 2019–2020.

Methods We downloaded Google Trends data for the United States (US) to capture number of searches including at least one of 64 search terms within four STI-related categories (STIs, symptoms, testing, and treatment) from January 1, 2019 to December 31, 2020. We expressed search interest across weeks as the unit of analysis, with scores normalized from 0–100; 100 represents the week with the most search interest for each variable.

Results For many STI-related search terms, interest dropped in March 2020 (when most states deployed COVID mitigation measures), increased later in the year, but did not increase to pre-pandemic interest. For example, ‘chlamydia’ ranged from 73–100 from January 2019–February 2020, dropped to a low of 55 in mid-April before increasing to values between 59–79 through December. Only a few search terms did not change during the pandemic. For example, besides one peak week of 100, ‘syphilis’ ranged from 21–35. Although the COVID-19 pandemic shifted interest away from STIs for spring and summer of 2020, most search terms remained used throughout July to December 2020 (ranges for chlamydia: 60–79, gonorrhea: 32–44, herpes: 44–55, HPV: 38–57, STD: 60–92, and STI: 58–80).

Conclusions In the US, internet searches for STI-related terms prior to and during the COVID-19 pandemic dropped from March through fall 2020. Concerns over STI symptoms, testing, and treatment increased by fall and winter 2020, which may indicate a need for access to STI services. Google Trends is a novel way to understand public interest in health topics, especially during a global pandemic.

P083 **TREATMENT OF MYCOPLASMA GENITALIUM INFECTION ACCORDING TO QPCR DETERMINATION OF RESISTANCE MUTATIONS: PRACTICE-BASED CASES**

^{1,2}N Bolshenko, ¹E Goloveshkina, ¹E Shedko*. ¹Central Research Institute of Epidemiology, Moscow, Russian Federation; ²Moscow Regional Clinical Skin and Venereal Diseases Dispensary, Moscow, Russian Federation

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Purpose *Mycoplasma genitalium* 23S rRNA and parC genes are associated with antimicrobial resistance. In our study successful treatment of *M. genitalium* infections chosen according