

# Menstrual Disorder in the EU

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**DATA SOURCE** : Eudra Safety Signal Dataset (ESSD) : <https://howbad.info/essd.zip>

**ESSD Online** : <https://knollfrank.github.io/HowBadIsMyBatch/SymptomsCausedByDrugs/>

Given that there are 3645 different drug names in the ESS Dataset, you might think that many drugs cause menstrual bleeding - but out of all the drugs in ESSD, Covid jabs are almost unique in their effect on menstruation.

Covid jabs are highlighted in red.

## **SYMPTOM = Abnormal menstrual clots**

<b>DRUG</b>	<b>PRR lower confid. limit</b>
COMIRNATY	4.5
SPIKEVAX	3.48

## **SYMPTOM = Amenorrhoea**

<b>DRUG</b>	<b>PRR lower confid. limit</b>
RYEQO	24.4
ESMYA	17.98
COMIRNATY	12.26
INVEGA	7.89
MODERNA	5.74
REBIF	3.17
ERENUMAB	2.74
EVRA	2.7
ELLAONE	2.28

## **SYMPTOM = Dysmenorrhoea**

<b>DRUG</b>	<b>PRR lower confid. limit</b>
COMIRNATY	10.93

MODERNA	6.48
TOZINAMERAN	5.36
ELLAONE	4.68
SPIKEVAX	2.46

**SYMPTOM = Heavy menstrual bleeding**

DRUG	PRR lower confid. limit
RYEQO	18.51
COMIRNATY	10.05
ELLAONE	4.73
MODERNA	4.46
TOZINAMERAN	4.19
ESMYA	3.94
OCRELIZUMAB	2.64
SPIKEVAX	2.47

**SYMPTOM = Hypomenorrhoea**

DRUG	PRR lower confid. limit
ELLAONE	59.68
COMIRNATY	9.57
TOZINAMERAN	3.3
SPIKEVAX	2.14

**SYMPTOM = Intermenstrual bleeding**

DRUG	PRR lower confid. limit
RYEQO	25.01
EVRA	13.33
COMIRNATY	10.97
ELLAONE	6.01
ESMYA	5.5
MODERNA	5.07

SPIKEVAX 2.43

**SYMPTOM = Menstrual clots**

**DRUG PRR lower confid. limit**

COMIRNATY 2.6

**SYMPTOM = Menstrual cycle management**

**DRUG PRR lower confid. limit**

COMIRNATY 16.86

SPIKEVAX 2.45

**SYMPTOM = Menstrual discomfort**

**DRUG PRR lower confid. limit**

COMIRNATY 20.24

SPIKEVAX 2.69

**SYMPTOM = Menstrual disorder**

**DRUG PRR lower confid. limit**

COMIRNATY 15.18

MODERNA 3.86

ELLAONE 2.98

SPIKEVAX 2.79

EVRA 2.04

**SYMPTOM = Menstrual headache**

**DRUG PRR lower confid. limit**

COMIRNATY 6.92

**SYMPTOM = Menstruation delayed**

**DRUG PRR lower confid. limit**

ELLAONE 84.35

COMIRNATY	8.56
TOZINAMERAN	4.03
MODERNA	4.02
OCRELIZUMAB	2.43
SPIKEVAX	2.15

**SYMPTOM = Menstruation irregular**

<b>DRUG</b>	<b>PRR lower confid. limit</b>
COMIRNATY	10.97
MODERNA	4.9
TOZINAMERAN	3.53
SPIKEVAX	2.68
ELLAONE	2.15

**SYMPTOM = Oligomenorrhoea**

<b>DRUG</b>	<b>PRR lower confid. limit</b>
COMIRNATY	17.02
MODERNA	7.14
SPIKEVAX	2.54

**SYMPTOM = Polymenorrhagia**

<b>DRUG</b>	<b>PRR lower confid. limit</b>
COMIRNATY	5.33

**SYMPTOM = Polymenorrhoea**

<b>DRUG</b>	<b>PRR lower confid. limit</b>
COMIRNATY	15.99
ELLAONE	14.5
MODERNA	4.69
SPIKEVAX	2.81
EVRA	2.37

**SYMPTOM = Premenstrual syndrome**

<b>DRUG</b>	<b>PRR lower confid. limit</b>
MODERNA	13.0
COMIRNATY	11.34
TOZINAMERAN	2.5
SPIKEVAX	2.11

**SYMPTOM = Premenstrual dysphoric disorder**

<b>DRUG</b>	<b>PRR lower confid. limit</b>
TOZINAMERAN	6.27
COMIRNATY	3.96

**SYMPTOM = Premenstrual headache**

<b>DRUG</b>	<b>PRR lower confid. limit</b>
COMIRNATY	4.55

**SYMPTOM = Premenstrual pain**

<b>DRUG</b>	<b>PRR lower confid. limit</b>
COMIRNATY	8.84
TOZINAMERAN	3.86
MODERNA	3.76
SPIKEVAX	2.57

**Observations**

1. Covid jabs have a safety signal for every symptom of menstrual disorder
2. Out of 3645 drugs, Covid jabs are often unique for symptoms of menstrual disorder
3. Out of all of the Covid jabs, Comirnaty always has the highest incidence rate for every symptom of menstrual disorder
4. Out of all of the Covid jabs, Spikevax always has the lowest incidence rate for every symptom of menstrual disorder
5. Vaxzevria is conspicuously absent.

## Notes

Consistent differences in the incidence of menstrual disorder for different Covid jabs, suggests that the different jab brands are not all the same, i.e. their ingredients, or strengths differ.

The absence of these effects in 99.8% of the 3645 drugs in the ESSD suggests that this is not the result of random variation.

Given that there are 16 symptoms and 4 covid jabs, the chances of Comirnaty always having the highest incidence is  $1 \text{ in } 4^{16} = 1 \text{ in } 4 \text{ billion}$ .

The consistency with which Comirnaty has the highest incidence for menstrual disorder suggests that it may have a focused effect on the reproductive system, suggesting that Comirnaty may have other effects on the reproductive system besides menstrual disorder.

### **SYMPTOM = Anovulatory cycle**

<b>DRUG</b>	<b>PRR lower confid. limit</b>
COMIRNATY	9.03
CYMBALTA	4.89
TOZINAMERAN	3.01

### **SYMPTOM = Ovulation pain**

<b>DRUG</b>	<b>PRR lower confid. limit</b>
COMIRNATY	10.29
TOZINAMERAN	2.7
SPIKEVAX	2.47

### **SYMPTOM = Ovulation delayed**

<b>DRUG</b>	<b>PRR lower confid. limit</b>
COMIRNATY	11.38
TOZINAMERAN	2.58

### **SYMPTOM = Ovulation disorder**

<b>DRUG</b>	<b>PRR lower confid. limit</b>
COMIRNATY	8.96
TOZINAMERAN	2.02

**SYMPTOM = Premature ovulation**

<b>DRUG</b>	<b>PRR lower confid. limit</b>
COMIRNATY	4.7

**SYMPTOM = Abnormal uterine bleeding**

<b>DRUG</b>	<b>PRR lower confid. limit</b>
XARELTO	61.51
COMIRNATY	2.8

**SYMPTOM = Uterine inflammation**

<b>DRUG</b>	<b>PRR lower confid. limit</b>
COMIRNATY	2.97

**SYMPTOM = Uterine pain**

<b>DRUG</b>	<b>PRR lower confid. limit</b>
COMIRNATY	8.0
MODERNA	7.19
SPIKEVAX	2.15

**SYMPTOM = Uterine spasm**

<b>DRUG</b>	<b>PRR lower confid. limit</b>
COMIRNATY	4.5

**SYMPTOM = Uterine tenderness**

<b>DRUG</b>	<b>PRR lower confid. limit</b>
COMIRNATY	2.9

The word “maternity” derives from the latin word “mater” for “mother”. Comirnaty replaces “mater” with “com” ; replaces “mother” with “community” or “commune”. The drug itself appears to damage motherhood – being strongly associated with bleeding disorder, ovulation disorder and uterine disorder.