

Certification of Relevance for FemCare Diagnostic Parameters

Date: 26 September 2024

To Whom It May Concern,

This letter serves as an official certification of the medical relevance of the diagnostic parameters utilized by **FemCare**, an AI-based diagnostic tool designed for the early detection of gynecological conditions such as cervical cancer, breast cancer, ovarian cancer, and polycystic ovarian syndrome (PCOS). Upon reviewing the parameters and methodologies employed by FemCare, I confirm that they are aligned with current clinical standards and are appropriate for the diagnosis and risk assessment of the respective diseases.

The following are the parameters assessed and certified for their relevance:

Cervical Cancer:

- **Patient History:** Age, Number of sexual partners, Age at first sexual intercourse, Number of pregnancies, Smoking habits (years, packs/year), Use of hormonal contraceptives (years), IUD usage (years).
- **Sexually Transmitted Diseases (STDs):** Number of diagnoses, including conditions such as condylomatosis, cervical condylomatosis, vaginal condylomatosis, vulvo-perineal condylomatosis, syphilis, pelvic inflammatory disease, genital herpes, molluscum contagiosum, AIDS, HIV, Hepatitis B, and HPV.
- **Previous Diagnoses:** Cancer, Cervical Intraepithelial Neoplasia (CIN), HPV.

Breast Cancer:

- **Diagnostic Imaging:** Breast histopathology images for detecting malignant or abnormal cell structures.

Ovarian Cancer:

- **Diagnostic Imaging:** Ovarian histopathology images for identification of cancerous growths and abnormalities.

Polycystic Ovarian Syndrome (PCOS):

- **Patient Data:** Age, Weight, Height, Body Mass Index (BMI), Pulse rate, Respiratory rate, Haemoglobin (Hb), Cycle Regularity/Irregularity, Cycle length, Marriage status, Number of abortions.
- **Hormonal and Metabolic Markers:** Beta-HCG, Follicle-stimulating hormone (FSH), Luteinizing hormone (LH), FSH/LH ratio, Thyroid-stimulating hormone (TSH), Anti-Müllerian hormone (AMH), Prolactin (PRL), Vitamin D3, Progesterone (PRG), Random blood sugar (RBS).
- **Blood Pressure:** Systolic and Diastolic.
- **Ultrasound Findings:** Follicle count (left and right), Average follicle size (left and right), Endometrial thickness.
- **Additional Factors:** Blood group, Pregnancy status, Weight gain, Hair growth, Skin darkening, Hair loss, Acne/pimples, Fast food intake, Regular exercise habits.

Based on the above parameters, I certify that FemCare's approach to diagnosis and risk assessment is consistent with established clinical guidelines and supports the early detection of cervical cancer, breast cancer, ovarian cancer, and PCOS.

Certified By:

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