

Current Advancements in Autofluorescence Spectroscopy-based Breast Cancer Detection: A Review

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Introduction

- In women, breast cancer is most common.
- Early detection of breast cancer is a difficult task.

Breast Cancer in the World

1 in 8 Woman

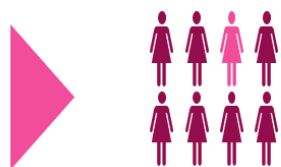
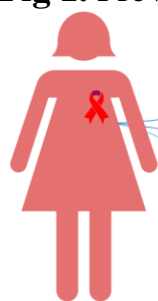


Fig 1. Prevalence of Breast cancer



12.000

Younger Woman

Fig 2. Type of Breast cancer in younger Women

- Ductal Carcinoma Cancer
- Lobular Carcinoma Cancer
- Inflammatory Breast Cancer

Aim

To assess the current advancements in Autofluorescence-based breast cancer detection.

Objective

To highlight the available information on Autofluorescence in Breast Cancer Detection

Methodology

A literature search was performed using keywords such as Autofluorescence, spectroscopy, breast cancer

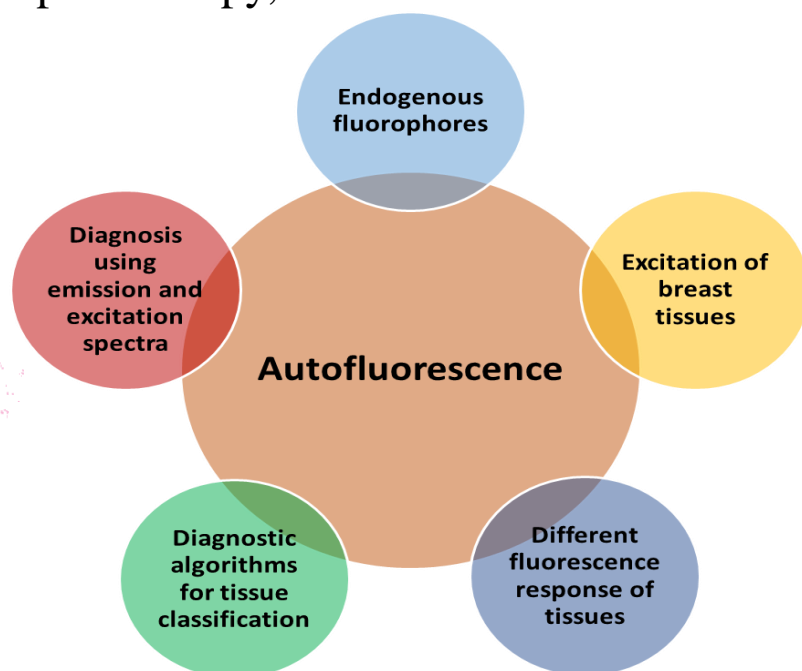


Fig 4. Applications of Autofluorescence in Breast Cancer detection

Conclusion

The ability of Autofluorescence in the evaluation and detection has significant potential in breast cancer diagnosis

References

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- Kerin MJ. Breast cancer detection—A synopsis of conventional modalities and the potential role of microwave imaging. *Diagnostics*. 2020 Feb 14;10(2):103.