Adjuvant Endocrine Therapy in patients with Breast Cancer: relationship between Side Effects, Quality of Life and Treatment Adherence



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BACKGROUND

- Adjuvant endocrine therapy (ET) is associated with increased recurrence-free survival of breast cancer.
- ET is responsible for multiple side effects which could negatively impact the quality of life (QL) and treatment adherence.
- Evidence from clinical practice settings shows that the prevalence of adherence to ET ranged from 41-72%.
- This study analyses the relationship between endocrine-related symptoms, QL and treatment adherence in patients with breast cancer.

METHODS

- A cross-sectional study based on two structured self-report questionnaires.
- Women who underwent adjuvant ET at least for three months were included.
- The FACT-ES (version 4) was used to measure QL (FACT-G, 4 domains, 27 items) and to evaluate 19 endocrine-related symptoms (ESS-19 module, 19 items).
- Morisky Medication Adherence Scale-4 (MMAS-4, 4 items) was used for measuring the patient's adherence.
- Bivariate analysis was performed using the Spearman coefficient and the Mann-Whitney test (significance level of 5%).

RESULTS

POPULATION STUDY AND SIDE EFFECTS

A total of 113 women have valid questionnaires and were included in this study.

Table 1: Sociodemographic and clinicopathological characteristics (N=113).

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Characteristics	All	Treatment details	All				
Age, median (extremes) ≤ 45 years > 65 years	55 (29-83) 24 (21.2%) 22 (19.5%)	Current ET: Tamoxifen Aromatase inhibitor (AI) Goserelin	40 (35.4%) 73 (64.6%) 28 (24.8%)				
Married Living with children (<18y) Employed	75 (66.4%) 28 (24.8%) 46 (40.7%)	Duration of ET, months: Median (extremes) > 24 months	21 (3-89) 51 (45.1%) 11 (9.7%)				
Psychiatry and/or Psychology follow-up	21 (18.6%)	> 60 months					
Family history of breast cancer (1st / 2nd degree)	23 (20.4%)	Mastectomy Axillary dissection	34 (30.1%) 32 (28.3%)				
Menopausal status	57 (50.4%)	Previous chemotherapy Trastuzumab	69 (61.1%) 31 (27.4%)				
Stage II-III	53 (46.9%)	Previous radiotherapy	92 (81.4%)				

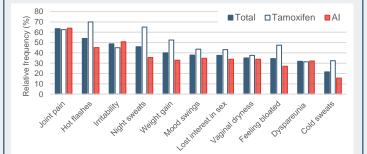
QUALITY OF LIFE AND TREATMENT ADHERENCE

Table 2: Of the 11 most severe symptoms (graph 1), 7 endocrine-related symptoms had a weak-to-moderate correlation with a worse QL score.

Side effect	PWB	SWB	EWB	FWB	FACT-G
Dyspareunia	0.240*	0.176	0.009	0.018	0.213*
Lost interest in sex	0.258*	0.223*	0.119	0.194	0.272**
Weight gain	0.185	0.100	0.200*	0.142	0.205*
Feeling bloated	0.250**	0.180	0.169	0.179	0.248**
Mood swings	0.449***	0.215*	0.357***	0.261**	0.420***
Irritability	0.352***	0.268**	0.429***	0.284**	0.447***
Joint pain	0.505***	0.263**	0.281**	0.344***	0.468***
ESS-19	0.545***	0.217*	0.297**	0.279**	0.453***

<u>Legends</u>: PWB – physical well-being; SWB – social well-being; EWB – emotional well-being; FWB – functional well-being; FACT-G – total score of QL; ESS-19 – average score of 19 endocrine-related symptoms. * p < 0.05; ** p < 0.01; *** p < 0.001

Joint pain, mood swings and irritability were moderately associated with a worse QL score.



Graph 1: The severe endocrine-related symptoms described by patients (relative frequency of symptoms indicated "very much" or "quite a bit"), grouped by HT class. Al: aromatase inhibitor.



Adherence (score 4)Non-adherence (score 0-3)

Forgetting to take medication was the behaviour that most contributed to non-adherence to ET (n=31; 27.4%). For the 11 symptoms, **mood swings** (p=0.022) and **irritability** (p=0.009) were associated with worse adherence to ET

Graph 2: Adherence to adjuvant ET (N=113).

Other results:

- No association was found among ET class, different QL domains (PWB, SWB, EWB, FWB) and treatment adherence.
- Women with a low level of adherence had worse QL scores, without statistical significance (p=0.085).

CONCLUSIONS

- Vasomotor symptoms, mood changes and joint pain were the most severe endocrinerelated symptoms reported.
- Mood swings and irritability were associated with worse QL score and low treatment adherence, which was suboptimal, especially in a country where women have free access to this medication.
- In clinical practice, in addition to ensuring the most effective and appropriate treatment for each patient, it is important to assess and manage the adverse effects of adjuvant ET and to optimize the quality of life and adherence to ET.

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MORE INFORMATIONS

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