



Correlation Between Haematological Toxicity with Quality of Life in Breast Cancer Patients After First-Cycle Chemotherapy

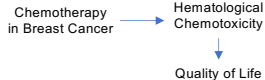
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Introduction



Aim: to find out the association of between hematological toxicity and QoL

Methods

- This was a cohort-prospective study which includes 50 breast cancer patients who undergone first-cycle of chemotherapy.
- Patients who had haematological abnormalities and poor quality of life before chemotherapy were excluded.
- Patient's QoL were measured by QLQ-BR23 questionnaire which includes body image (BI); sexual functioning (SF); sexual enjoyment (SE); future perspective (FP); and functional total (FT).
- Haematological chemotherapy toxicity was determined by the number of haemoglobins, leukocytes count and platelet count.
- Chemotherapy toxicity is graded from 0 (no toxicity) to 5 (death) according to the National Common Institute Common Terminology Criteria for Adverse Events.
- Correlation is analysed with Pearson Correlation using SPSS version 25.0.

Results

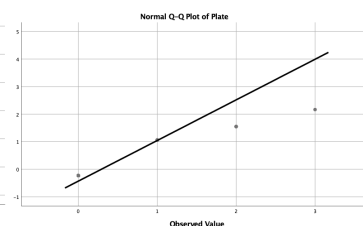
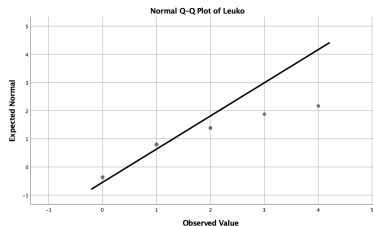
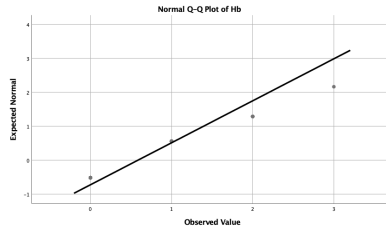


Table 1 Correlation Between Haematological Toxicity and Quality of Life

	Haemoglobin		Leukocyte		Platelet	
	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>	<i>r</i>	<i>p</i>
Body Image	-0.3	0.08	-0.41	0.01	-0.123	0.3
Sexual Functioning	-0.251	0.044	-0.121	0.3	-0.31	0.03
Sexual Enjoyment	-0.498	0.01	-0.128	0.3	-0.7	0.04
Future Perspective	-0.345	0.283	-0.7	0.02	-0.9	0.1
Functional Total	-0.61	0.02	-0.3	0.05	-0.042	0.05

Hb : Hemoglobin
Leuko : Leukocyte
Plate : Platelet

Conclusions

We found that Hb and platelet level is significantly correlated with sexual functioning, sexual enjoyment, and functional total. Meanwhile, leukocyte level is significantly correlated with body image, future perspective, and functional total.

Further study with a larger number of participant is needed to confirm these findings.

Conflict of Interest
None

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