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Introdução e Objetivo

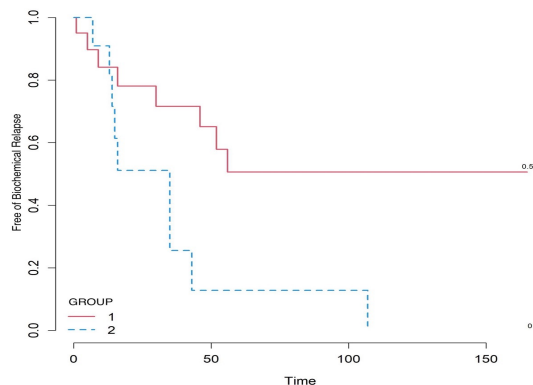
Prostate cancer in view of its increasing incidence and impact on health practices, has been constantly studied for improvements in diagnosis and control of the disease. The understanding of etiological and anatomopathological aspects of the tumor and prognosis factors, determine medical follow-up and may change the therapeutic strategy. The ductus deferens is in continuity with the seminal vesicles bilaterally and should also be considered as an independent organ from the prostate and seminal vesicle itself. It remains unclear, however, whether invasion of the ductus deferens is related to a worse prognosis when associated with invasion of seminal vesicle. The main objective of the study is to analyze influence of ductus deferens invasion in patients treated with RRP due to prostate tumor stage T3b in biochemical recurrence, when compared to patients with ductus deferens free of invasion.

Método

Retrospective analysis of 53 patients submitted to radical prostatectomy with anatomopathological stage T3b, at Hospital de Clínicas da Unicamp, between 1997 and 2014. After exclusion criteria were applied, statistical analysis of 32 participants separated into 2 groups, in which 20 patients (62.5%) without involvement of the ductus deferens (group 1) and 12 (37.5%) with invasion of the ductus deferens (group 2). Biochemical recurrence was defined as an increase in PSA greater than or equal to 0.2 ng/ml after surgery.

Figuras

Variable	Group	Average	Standard Deviation	Median	Number	P Value	Test
Age	1	64,85	5,69649	64	20		Mann-Whitney Test
Age	2	62,58333	7,35414	62	12	0,339	Mann-Whitney Test
Max PSA	1	0,2359	0,52523	0,07	20		Mann-Whitney Test
Max PSA	2	0,41833	0,56048	0,24	12	0,143	Mann-Whitney Test
PSA nadir	1	0,03025	0,03563	0,01	20		Mann-Whitney Test
PSA nadir	2	0,13842	0,33781	0,035	12	0,375	Mann-Whitney Test
Pre operative PSA	1	14,5075	10,33639	12,06	20		Mann-Whitney Test
Pre operative PSA	2	14,47833	7,59088	12,35	12	0,627	Mann-Whitney Test
Time of Follow up	1	50,9	41,10052	44	20		Mann-Whitney Test
Time of Follow up	2	28,25	29,40972	17,5	12	0,119	Mann-Whitney Test
Time until Recurrence	1	50,4	43,8339	46,5	20		Mann-Whitney Test
Time until Recurrence	2	27,58333	27,86154	15,5	12	0,243	Mann-Whitney Test
Group		Relative Risk	Inf CI 95% RR	Sup CI 95% RR	P Value(Cox)	P Value (log rank)	
2		3,05	1,12	8,32	0,03	0,03	



Resultados

Group 2 has a higher relative risk of biochemical recurrence and a statistically significant 95% CI (1.12; 8.3) when compared to group 1, although a possible bias due to the involvement of the surgical margins was also greater in group 2. There was no statistically significant difference between the time to biochemical progression between both groups (p 0.243). When analyzing survival related to biochemical recurrence, the gap between the two Kaplan-Meier curves is evident, showing a better prognosis in the group without involvement of the ductus deferens.

Conclusão

The prognosis of prostate cancer with involvement of seminal vesicles can be complemented with the evaluation of the ductus deferens, suggesting a more aggressive tumor, when compromised.

Referências

Hsing, Ann, W. Prostate cancer epidemiology. *Frontiers in Bioscience* 11, 1388 (2006); Grönberg, H. Prostate cancer epidemiology. *The Lancet* 361, 859–864 (2003); Parkin, D. M., Bray, F. I. & Devesa, S. S. Cancer burden in the year 2000. The global picture. *European Journal of Cancer* 37, 4–66 (2001); Brand, T. C., Hernandez, J., Canby-Hagino, E. D., Basler, J. W. & Thompson, I. M. Prostate cancer detection strategies. *Current urology reports* 7, 181–5 (2006); Borre et al. Survival of prostate cancer patients in central and northern Denmark, 1998–2009. *Clinical Epidemiology* 41 (2011) doi:10.2147/CLIP.S20625; Kotb, A. F. & Elabbady, A. A. Prognostic Factors for the Development of Biochemical Recurrence after Radical Prostatectomy. *Prostate Cancer* 2011, 1–6 (2011);