

Decision Support Software Use For Patients: Immediate and Post Evaluation

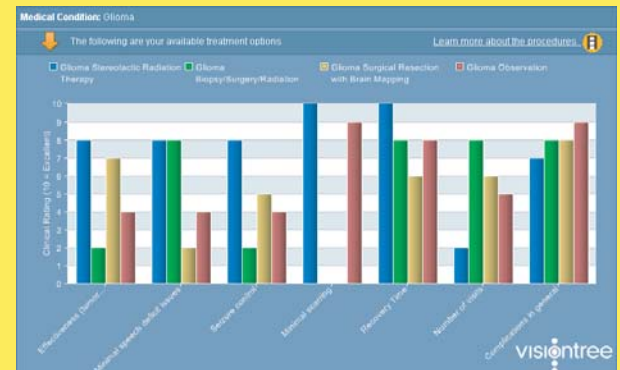
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INTRODUCTION:

Patients harbor increasing difficulty choosing a treatment modality among multiple existent options.

METHODS:

Eighteen patients from UCLA Neurosurgery Clinic used VisionTree (VT) Healthcare Online decision-making software. Patients had multiple diagnoses. Mean age was 55.2 years, 6 were female. Therapeutic options were rated considering effectiveness, complications, recovery time, number of visits (physician rating) and personal issues (patient rating). Physician's rating considered current literature data. Software presented a normalized score (0-100) reflecting patient's willingness for each option. Immediate and post-treatment evaluation surveys were completed using 1-5 scale (5=best). Post-treatment surveys were obtained for patients who used and did not use VisionTree. Controls were selected among patients with similar diagnosis/age and were evaluated within one week time interval at the Clinic.



Patient presented with outcomes data.

RESULTS:

Mean score for first option treatment was 86.3 ± 8.6 . For second and third options was 65.2 ± 19.2 and 39.7 ± 15.5 , respectively. All but two (11.11%) patients moved forward with their selected treatment option. First options all scored above 70 on VT. Immediate survey rates were 4.2 ± 1.4 for software usefulness, 4.8 ± 0.4 for friendly navigation, 4.6 ± 0.7 for recommendation to others, 4.5 ± 0.9 for satisfaction with the tool. Eight patients completed treatment and responded to the questionnaire. Post-treatment score for software friendly-use was 5, for satisfaction with the tool was 4.5 ± 0.6 . Post-treatment welfare measured as patient's overall well being was 4.5 for VT and 3.5 for control group, a 20% improvement. Only one patient in the VT group felt that more information regarding treatment options was necessary.

Medical Condition: Glioma

These are your decision results. The number one treatment option is the one that best meets your needs based on the information you have provided. Each factor has been given a score based on how you valued its importance.

Option: Glioma Stereotactic Radiation Therapy **VisionTree Score: 71**

Factor	Reason	Rating	Importance
Effectiveness (tumor resection or control)		8	10
Minimal speech deficit issues		8	10
Seizure control	Drive car, feel safe	8	10
Minimal scarring		10	4
Recovery Time		10	7
Number of visits		2	6
Complications in general		7	7
Total:		491	(out of 800)
Specific Concern (willingness = 8): Multiple Visits		Total:	640 (out of 800)

You can re-evaluate your importance ranking by editing the number(s) and then clicking [here to recalculate](#).

Treatment options prioritized based on clinical data and patient input.

CONCLUSIONS:

The decision-making software use in clinical practice is innovative and effective. Software evaluation according to patient's impression was positive and consistent through time. Initial consult options were confirmed through software and the software was considered a very helpful tool for treatment option decision-making process and stored in the patient's electronic medical records for informed consent.