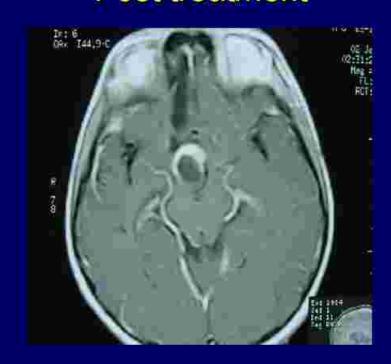
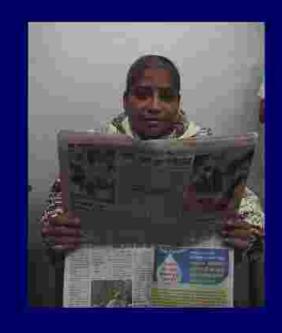
Pre treatment



Post treatment



- Health related QOL individual's perception of well being
- Important endpoint in high grade and low grade tumours
- Includes physical, mental, emotional and social domains







Quality of life- an important outcome measure

Most of the data on QoL is available in trial setting

Disease

versus

Illness

Observed by physician
Objective signs
Replicable
Affects discrete parts
Affects quantity of life
Dispassionate care
Death (survival)

Experienced by patient
Subjective symptoms
Unique
Affects whole person
Affects quality of life
Compassionate care
Suffering

Shift of focus

- The person with CANCER Vs
- The PERSON with cancer

A small difference with a big effect

QOL Tools in brain tumours

COLUMN TWO



EORTC QLQ-C30 (version 3)

We are interruped in some fluings about you and your health. Please answer all of the questions you add by circling the number that best applies in pain. There are no "right" at "wrong" answers. The information that you people all there is the fifty of the folial.

		Not at	Little	Quite a Bit	Very Much
l.	Do you have any results doing discretizing act office. the entrying a honey shopping big or a unitate?	1.	2	2	4
2	Do you have my trouble taking a torig well?	1	2	(2)	:40
1	Do see there are trouble toking a $\pm kan$ such coincid if The Double	10	2	3.	:4
E.	Do you need to stay in bed or a chair curing the cay?	6	2	3	.1
5	Do you need to p with airting, drawing, washing powers or using the total?	1.7	2	3	.41

During the past week:	Sout ar	Ciria.	Quite • Ba	Very Much
 Were you fimiled in change either your work or other daily activities? 	1	1.00	3	4
Went you limited in provining your tee hier of allow lessons time antivines?	1	ž	ĵ.	-4-
b Were you allors of builds."	6	2	8	<u>, €</u> :
 Heye you buil putte? 	4.0	23	3	140
10. Did you need to rest/	1.	2	1	4
II. Have you full trothly sleeping?	6	2	87	4
12 Have you felt week.	40	2	5	141
13. These you sucked appetrice	\$1)	≅	187	046
C4 Have you felt convented?	1.0	2	4	
15. Have you wonited?	£0;	2.5	2	14

Planet so on to the next pres-



EORTC QLQ - BN20

Patients sometimes repost that they have the following symptoms. Please sudicate the extent to which you have experienced these symptoms or problems during the past week.

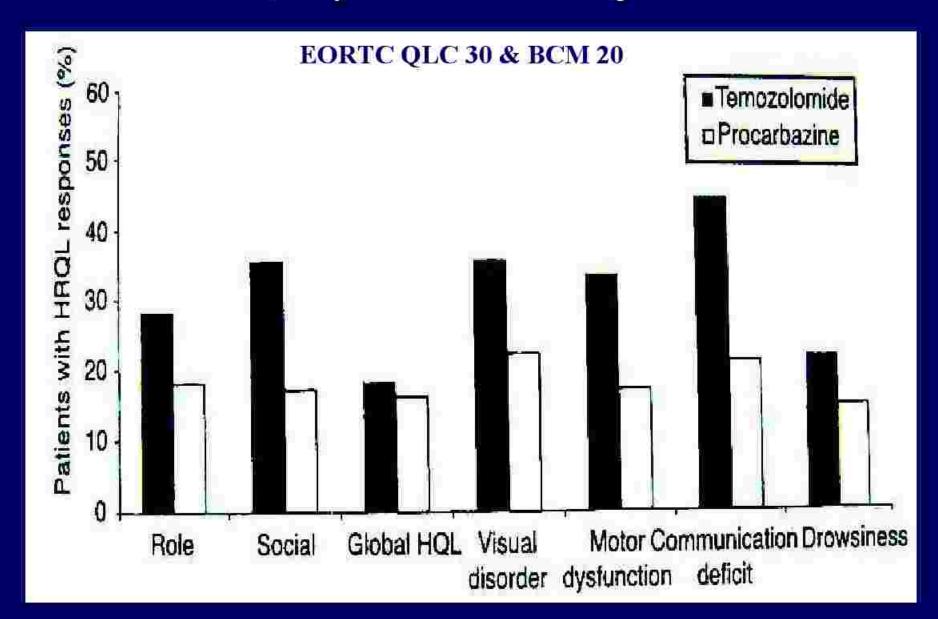
Du	ring the past week:	Not at	A Little	Quite a Bit	Very Much
11	Did you feel use exfain about the future?	1.	2	3	4
12	Did you feel you land rether to in your condition?	<u>a</u> ,	2	3	4
32	Were you concerned about disruption of family life?	:11	2	3	:4
4	Did you have headather?	1	2	1	4
15.	Die your suffoak en the future warren?	1.	2	3	4
4	Did you have double vision?	<u>a.</u> ,	2	3	4
7	Was your vision bhursed?	311	2:	3	:4
B	Did you have difficulty reading because of your vision?	1	2	3	4
9	Bid you have seizeres?	1.	2	3	4
ıü.	Did you have westness on one side of your body?	<u>a.</u> ,	2	3	4
11.	Did you have trouble fooling the right words to express your elf?	1,	2	1	4
2	Did you have difficulty speaking?	3	2	8	4
3	Did you have trouble communicating your thoughts?	100	2	3	- 24
14	Bid you feel drowry during the daytime?	1	2	3	4
15	Did you have trouble with your coordination?	1,	2	3	4
16	Did hair less better year	3.	2	8	4
72	Bid itching of your skin bother you?	110	2	3	24
18:	Rid you have weakness of both legs?	1	2	3	4
	Did you feel uniterally on your feet?	1,	2	3	4
0	Did you have trouble controlling your bladder?	33.	2	3	4

Compression 1994 BUILDS Breds Compress Common of Life - 1986-111 residates

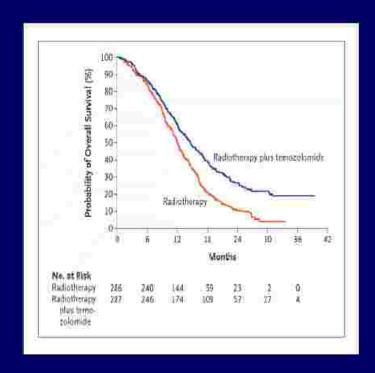
Core questionnaire (30 qtns)

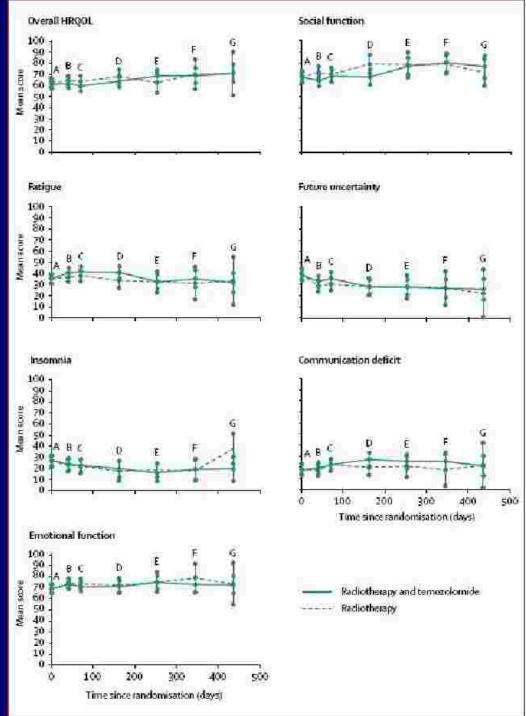
Specific brain module (20 qtns)

Quality of Life in recurrent gliomas



Prospective QOL assessment in the EORTC TMZ study





Taphoorn Lancet Oncol 2005;6:937-44





Problems of QOL in routine practice

- · Social and cultural factors
- Indifference of treating physician towards QOL issues
- Non availability of QOL tools in native languages
- Longitudinal prospective studies on late sequelae and QOL sparse
- Most of the data retrospective/cross-sectional
- QOL in routine practice relatively unknown and difficult to do



TMH QOL study in adult Brain tumour patients

- Longitudinal
- Consecutive



Study Design



Accrual

Adult patients (age>18years) with primary brain tumours seen consecutively from 1st Jan 2003 to 31st December 2003 (all patients had some surgical intervention)

Prospective Evaluation

Complete neuro-oncological data

EORTC Questionnaire-QLQ C30 (QOL)

EORTC approved translated Brain Cancer Module (BN 20) (Hindi and Marathi)

Translation to Hindi and Marathi and Validation

- Detailed methodology, as outlined by EORTC
- First, forward translations by 2 native speakers
- Intermediate questionnaire
- Back translations by 2 independent people
- Application in 10 patients and evaluate their responses as a pilot testing
- Send to EORTC & incorporate the changes suggested
- Submit final questionnaire to EORTC for acceptance and ratification
- Available at the EORTC website, copyrighted

Table 2: EORTC OLQ- Translated Final Hindi Questionnaire

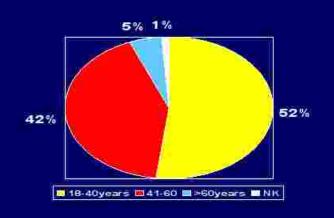
EGRIC QLO - BN20

मनेता बहुर क्षार नीचे लिए तुई नक्ष्तीये; बनान रे ब्रुपक्क आप रहे बनाए कि आपको पिछले सपनात में किय तब तक नक्तीय हुई

-	Contraction Contracts	Programm	Tidlikoote'		1784844
44	ਗਿਹਵ ਸ਼ਾਲ ਜਾਣਸ J ਵਾਲ ਸ	ininojin ⊒≛i	चारणा	36107	सहस्त्र सहस्र
T.	म्या ज्याको अपना गोर्क्य अभिन्ति स्था ?	19	(3)	4	×
₹.	क्या आपका नाम की आपकी विशेषमा में कुछ स्कावर आवी ?	785	195	3	N
4	≠वा जापको जगन गांग्वामिक जोर÷ के दुस्नको थिना हुई ?	8	4	1	3
laro	नवा आपका मिरवर्ग वा ?	18	340	121	33
ġ,	क्या आपका परिष्य के बार ने नर्जारक विरुद्ध ?	(1)	3	7	(4)
K:	क्का जापको ओई समृ से (हुमुने) विस्ती से ?	(4)	3	3	У
N,	क्या अपको खुंचला विकास चा ?	r.	4	3	34.
63	बारा आपारा साम की कारमा पास्त्र में बाई विस्तरत मुद्द ?	:45	a	3	×:
4,	क्रम आपका कोई सिन्गे / अरुका आया ?	90	31	ã	×.
*D	क्या आपना अगेर के एक काम है धार ने बाई इसजेरी में ?	:45	9	3	N.
ec:	न्त्रा आरक्षाः अपने विद्यागः पण्ड वहरू ॥ उपयुक्तः शक्यं दूवनं म काँदनाई होती थे ?		in.	30	24.
17	ब्हा आपका बागांत पारा नकतीफ, हाता दो ?	16	9	(4)	3
(ta	क्या असम्बद्धाः विवासः क मन गन म काँठनाई जाता था ?	197	31	3	:001
(3)	क्या आपका दिन ने मीने केने संपन्न छ ?	7	4	1	80
Eq.	क्या आपके सामगंत में कडिकर्ड आणी ?	12:	31	838	190 i
14	क्या अप बात ऋषे में पीज़ान होते थे ?	2 9)	(3)	4	80
CES	क्या क्या की मुजनी ने आपका प्रशास किया ?	12	Э		383
10	च्या आपक्क पान द्यम न करवांग की ?	167	3	3	30
13	क्टा आपका को स आनुसन सहसुम हाना था ?	16)	31	3	N.
10	क्या जामका पतान विकास करने प नकलोंक तानों की ?	140	3	3	W)

Patient characteristics

Total no of patients accrued: 257



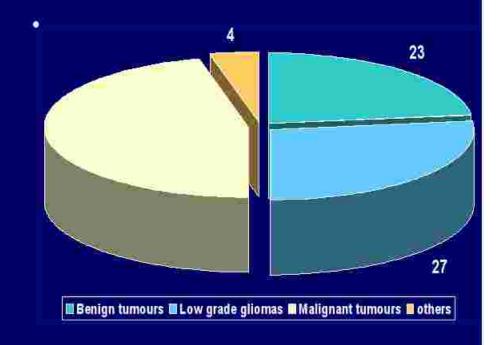
KPS

80 and above: 183 (71%) 50-70: 57 (22%) <40: 10 (4%)

Male: Female : 173 84

Literacy status:

Illiterate: 36 (14%)
Primary education: 31 (12%)
Secondary education: 91 (35%)
Higher sec. education: 48 (19%)
College and above: 46 (18%)
Not available: 5 (2%)





Evaluations

Questionnaire filled by patients themselves: 165 (64%)

Assistance required due to neurological condition: 37 (14.5%)

Assistance required due to illiteracy: 33 (13%)

Assistance required for other causes: 20 (8%)

Time of evaluation

Visit 1: At first assessed in the Clinic (n=243)

Visit 2: At the conclusion of Radiation therapy (n=147)

Visit 3: On follow up at 6 weeks to 3 months (n=114)

Visit 4: On follow up at 6 months (n=62)

Visit 5: On follow up at 9-12 months (n=50)

No.
Died 21

Lost 14

No RT/Out RT 30

Administrative 31



Baseline QOL Scores

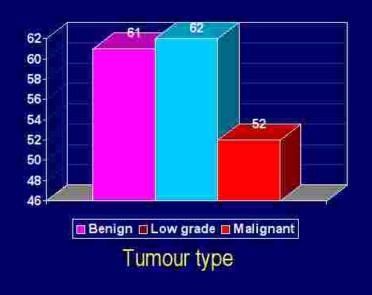
QLQ: higher score - better

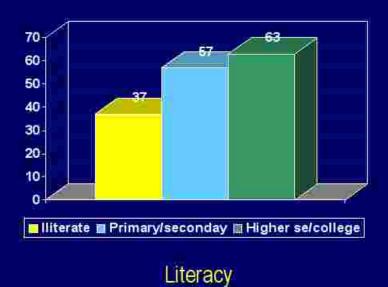
Domains	No of pts.	Mean	Std Deviation	
QLQC30				
Physical Functioning	243	80	20	
Role Functioning	242	78	26	
Emotional Functioning	240	65	27	
Cognitive Functioning	241	70	28.5	
Social Functioning	240	70.5	33	
BN 20		BN 20: lower score - better		
Future Uncertainty	243	19	20	
Visual Disorder	243	18	19	
Motor Deficit	243	28.5	22.5	
Communication	243	31	26	

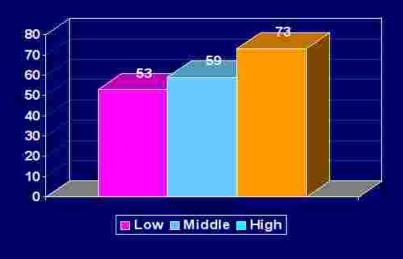
Baseline Global QOL









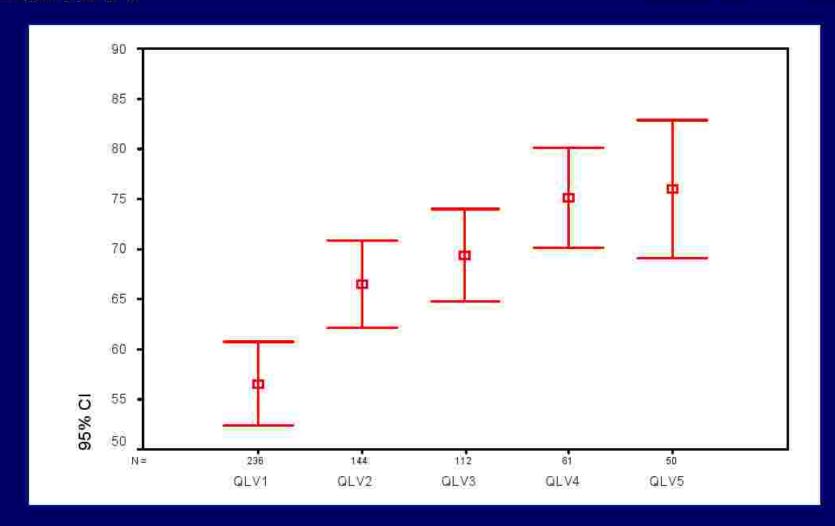


Socioeconomic status

Global QOL

Minimum score: 0

Maximum score:100



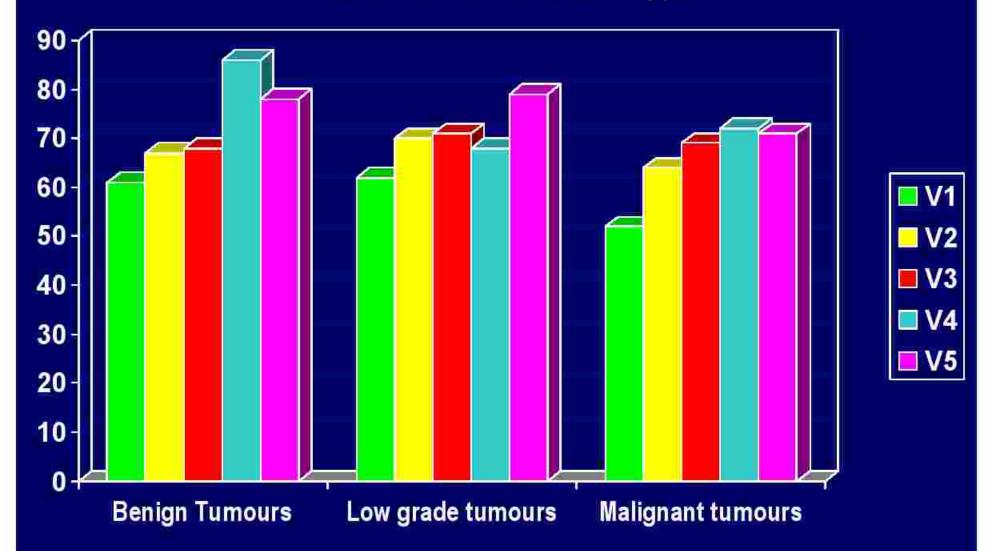
V1 and V3: p = 0.043

Global QOL and performance status



KPS 50-70: Baseline V1 & 3 months V3: p= 0.012

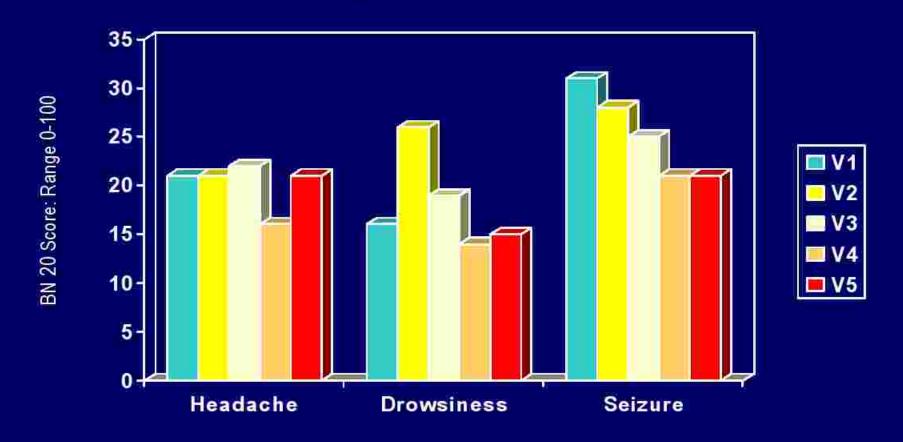
Global QOL and Tumour type



BN 20 Domains



Symptom scales: BN 20



Drowsiness: p = 0.001 V1& V2

Seizures: p = 0.009 V1& V3

Other symptom scales: p=ns

Conclusions

- Patients with brain tumours before starting adjuvant therapy have relatively low quality of life,
- Age more than 60, malignant tumours, low socioeconomic status and poor education are likely factors to be associated with poor QOL scores at baseline
- Brain Cancer module domains seem to be more appropriate in measuring QOL than QLC core questionnaire
- Radiotherapy (post-operative and upfront) improves global QOL of patients, especially in motor and communication deficits
- Maximum improvement seems to be seen in patients with baseline low performance status and malignant tumours
- There is a transient deterioration in drowsiness and nausea and vomiting following radiotherapy
- QOL evaluation in routine practice is feasible; however needs dedicated personnel and follow up evaluations in controlled fashion
- Efforts should be made to minimise administrative errors

Acknowledgements

- Rakesh Jalali
- Rashmi Kamble
- Sachin Parab
- Anagha Kakade
- Kalpesh (deceased)



www.tatamemorialcentre.com



www.braintumourindia.com

Patients

If you have brain tumour or have a loved one suffering from it, you'll find a lot of information here.

Brain Tumour Foundation of India

We shall overcome

Doctors

his is the doctor's meeting place. If you're a doctor looking for information on brain tumour, please enter here.



BRAIN TUMOUR FOUNDATION

www.braintumourindia.com

The Brain Turnour
Foundation of India is a
non-profit organisation
committed to minimise the
physical, emotional and financial
suffering associated with the
diagnosis, treatment and
rehabilitation of patients with
brain and spine turnours, and
their families

Support Team

At BTF, we can always do with some help. If you have anything to offer these victims of brain tumour, check this link out.



Brain Tumour Foundation of India

74, Ground Floor, Main Building, Tata Memorial Hospital, Parel, Mumbai - 400 012, INDIA Teh 91-22-2417 7153 / 2417 7159 . Fax: 022-2417 7159 / 2414 6937 Pager: dial 9602 and ask for 135135 or 122122

Email: btf@braintumourindia.com

