

**Supplementary Table 4.** Responses of faculty with under 5 years of clinical experience

	Percentage (%)
Neurosurgery boarder common questions (29 responders)	
1. What is the number of beds at the hospital where you work?	
<500	0.0
500-1000	58.6
1000-1500	31.0
>1500	10.4
2. During your current work, how much time is devoted to actual treatment and research of brain tumor patients?	
<30%	13.8
30-50%	17.2
50-80%	41.4
>80%	27.6
3. How satisfied are you as a specialist in brain tumors?	
Regret	10.3
Neutral	41.4
Satisfied	48.3
3-A. If you regret it, is there a special reason?	
Low job satisfaction	0.0
Inappropriate treatment in institute	0.0
Low income	61.5
Low brain tumor patient number	30.8
Etc.	7.7
3-B. If you can re-select your major, what would you like to select?	
Cerebrovascular	14.3
Spine	47.6
Pediatrics	4.7
Functional neurosurgery	4.7
Trauma and critical care	23.8
Etc.	4.7
4. What do you think is most important to increase the application rate for brain tumor residency in the future?	
Opportunity of steady job	28.3
High income	54.3
Improve relationship with seniors	13.3
Increasing support of KBTS	4.1
5. What is the most difficult part about working at a hospital or academic institution while majoring in brain tumors?	
Low number of brain tumor patients	51.7
Additional workload except brain tumor	6.9
Difficulty of brain tumor surgery	20.7
Difficulty of satisfying institutional research workload	20.7
6. Are there any other senior or junior professors currently specializing in brain tumors at the same institution?	
Yes	75.9
No	24.1

Supplementary Table 4. Continued

	Percentage (%)
7. If so, are you satisfied with your relationship with your senior or junior professor?	
Satisfaction	54.2
Neutral	33.3
Unsatisfaction	12.5
8. What do you think about the potential for future development in the field of brain tumors in the Korean medical system?	
Positive	22.2
Neutral	37.0
Negative	33.3
Very negative	7.5
8-A. If negative, for what reason?	
Low surgical fee in South Korea NHIS	33.3
Patient concentration in several major hospitals	61.1
Low infrastructure of brain tumor research	5.6
Pressure for personal revenue in hospital	0.0
Etc.	0.0
9. Are you satisfied with your current medical treatment environment?	
Satisfaction	31.0
Neutral	51.7
Unsatisfaction	17.3
9-A. If you are dissatisfied, what is difficult? (multiple choice)	
Other workload except brain tumor	29.4
Low income	82.4
Low applying brain tumor fellows	41.2
High workload	17.6
10. If you had to choose your major again, would you choose brain tumor?	
Yes, I do	37.9
No, I don't	24.2
Neutral	37.9
11. Why did you choose to major in brain oncology despite the difficult circumstances and why are you currently working there? (multiple choice)	
Sense of duty	51.7
Academic pleasure of brain tumor	69.0
Satisfaction of current job	27.6
Special questions to faculty with under 5 years of clinical experience	
1. How many brain tumor surgeries (craniotomies and biopsies) are performed on average after appointment? (29 responders)	
Under 5 cases per month	41.4
6-10 cases/month	55.2
11-15 cases/month	3.4
2. What is the biggest limitation you feel as a brain tumor specialist after being appointed? (30 responders)	
Low number of brain tumor patients	40.0
Low experience of brain tumor surgery	13.3
Limitation of basic research	6.6
Work overload	20.0
Low income	16.7
Etc.	3.4

Supplementary Table 4. Continued

	Percentage (%)
3. What is the biggest disadvantage of the brain tumor department compared to other departments (cerebrovascular, spinal)? (29 responders)	
High difficulty of surgery	13.8
Low number of surgery	24.1
High difficulty of study and basic research	0.0
Low number of steady job, low chance of faculty in tertiary hospital	62.1
4. Why do you not recommend the brain tumor part to your juniors? (29 responders)	
High difficulty of brain tumor surgery	3.4
Low surgical fee and low income (salary)	48.4
Low number of surgery, slow learning curve	17.2
Academic difficulty of brain tumor	6.8
I recommend brain tumor	24.2
5. What do you think about the current activities of the KBTS?	
Excellent	6.9
Good	44.8
Neutral	44.8
Bad	3.5
6. Among the activities of the KBTS, what do you think is most necessary for future development?	
Support of junior staff or new members	34.5
Make new educational conferences	41.4
Make new educational programs in current conferences	13.8
Make programs for resident doctors	10.3
7. What is the most important current problem of the KBTS?	
Loss of identity of KBTS	20.7
Loss power of integration of sub-special society	31.0
Closed mind for new members	6.8
Over critics for research and surgery results	0.0
Low chance of educational program	27.7
Closed operation of Society	13.8
8. What are the positive aspects of the current KBTS conference program?	
Lecture and educational program	13.8
Scientific program	24.1
Rare case report program	20.7
Gala dinner	31.4
9. What are the negative aspects of the current KBTS conference program?	
Lecture and educational program	37.0
Scientific program	0.0
Rare case report program	0.0
Resident section	25.9
Gala dinner	14.8
Etc.	22.3

KBTS : Korean Brain Tumor Society, NIHS : National Insurance Health System