

Supplementary Table 3. Responses of fellows in brain tumor section

	Percentage (%)
Neurosurgery boarder common questions (6 responders)	
1. What is the number of beds at the hospital where you work?	
<500	0.0
500-1000	0.0
1000-1500	33.3
>1500	66.7
2. During your current work, how much time is devoted to actual treatment and research of brain tumor patients?	
<30%	33.3
30-50%	0.0
50-80%	33.3
>80%	33.3
3. How satisfied are you as a specialist in brain tumors?	
Regret	16.7
Neutral	66.6
Satisfied	16.7
3-A. If you regret it, is there a special reason?	
Low job satisfaction	0.0
Inappropriate treatment in institute	33.3
Low income	33.3
Low brain tumor patient number	33.3
3-B. If you can re-select your major, what would you like to select?	
Cerebrovascular	20.0
Spine	80.0
Pediatrics	0.0
Functional neurosurgery	0.0
Trauma and critical care	0.0
4. What do you think is most important to increase the application rate for brain tumor residency in the future?	
Opportunity of steady job	33.3
High income	66.7
Improve relationship with seniors	0.0
Increasing support of KBTS	0.0
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	33.3
Additional workload except brain tumor	16.7
Difficulty of brain tumor surgery	16.7
Difficulty of satisfying institutional research workload	33.3
6. Are there any other senior or junior professors currently specializing in brain tumors at the same institution?	
Yes	100.0
No	0.0
7. If so, are you satisfied with your relationship with your senior or junior professor?	
Satisfaction	50.0
Neutral	33.3
Unsatisfaction	16.7

Supplementary Table 3. Continued

	Percentage (%)
8. What do you think about the potential for future development in the field of brain tumors in the Korean medical system?	
Positive	16.7
Neutral	16.7
Negative	66.6
Very negative	0.0
8-A. If negative, for what reason?	
Low surgical fee in South Korea NHIS	50.0
Patient concentration in several major hospitals	33.3
Low infrastructure of brain tumor research	16.7
Pressure for personal revenue in hospital	0.0
Etc.	0.0
9. Are you satisfied with your current medical treatment environment?	
Satisfaction	16.7
Neutral	50.0
Unsatisfaction	33.3
9-A. If you are dissatisfied, what is difficult? (5 responders)	
Other workload except brain tumor	20.0
Low income	80.0
Low applying brain tumor fellows	20.0
High workload	40.0
10. If you had to choose your major again, would you choose brain tumor?	
Yes, I do	16.7
No, I don't	50.0
Neutral	33.3
11. Why did you choose to major in brain oncology despite the difficult circumstances and why are you currently working there?	
Sense of duty	83.3
Academic pleasure of brain tumor	83.3
Special questions to fellows in brain tumor section (6 responders)	
1. What was the biggest reason for choosing to major in brain tumor?	
Academic pleasure	66.6
Opportunity for attending surgeon	0.0
Responsibility	16.7
Obtain free time	0.0
Respect for seniors	16.7
2. To what extent did your relationship with senior professors you currently or previously worked with contribute to your choice of majoring in brain tumor?	
Highly contributed	16.7
Contributed	66.6
Neutral	16.7
Less contributed	0.0
Not contributed	0.0

Supplementary Table 3. Continued

	Percentage (%)
3. Are you satisfied with your current full-time residency program?	
Satisfied	33.3
Neutral	33.3
Unsatisfied	33.3
3-1. If you are dissatisfied, what would you like to see improved upon?	
Increasing experience of brain tumor surgery	40.0
Increasing chance of brain tumor research	60.0
Support of academic activity (conference)	0.0
Etc.	
4. What career path do you hope to pursue after completing your fellowship?	
Faculty for tertiary hospital or professor	83.3
Private or medium-sized hospital	16.7
Researchers	0.0
Etc.	
5. What do you think about exchanges within the academic society with other universities and hospitals specializing in brain tumors?	
It is necessary, now enough	16.7
It is necessary, not enough	66.6
It is unnecessary	16.7
6. Is there a hospital where you are scheduled to be appointed in the future?	
Yes, current hospital	16.7
Yes, other hospital	16.7
Not planned	0.0
Equivocal	66.6
7. What do you think about the current activities of the KBTS?	
Excellent	0.0
Good	33.3
Neutral	66.7
Bad	0.0
8. Among the activities of the KBTS, what do you think is most necessary for future development?	
Support of junior staff or new members	83.3
Make new educational conferences	16.7
Make new educational programs in current conferences	0.0
Make programs for resident doctors	0.0
9. What is the most important current problem of the KBTS?	
Loss of identity of KBTS	33.3
Loss power of integration of sub-special society	50.0
Closed mind for new members	0.0
Over critics for research and surgery results	0.0
Low chance of educational program	16.7

Supplementary Table 3. Continued

	Percentage (%)
10. What are the positive aspects of the current KBTS conference program?	
Lecture and educational program	16.7
Scientific program	50.0
Rare case report program	16.7
Gala dinner	16.7
11. What are the negative aspects of the current KBTS conference program? (6 responders; 5 respond)	
Lecture and educational program	20.0
Scientific program	20.0
Rare case report program	20.0
Resident section	20.0
Etc.	20.0

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