

**Supplementary Table 1.** Questions and their subgroups

## Chief resident

1. Is there a part you are currently interested in? If so, what is it?
  - 1-2. Why didn't you choose a brain tumor specialty? (multiple selection possible)
  - 1-3. What would you like to improve about if you major in brain tumors? (multiple selection possible)
2. What is your preferred work style?
3. Is there a reason you chose your major? (multiple selection possible)
4. Are you considering majoring in brain tumor?
5. How many brain tumor surgeries do you assist with per week?
6. How many total times have you experienced craniotomies for brain tumor surgery under the guidance of a specialist?
7. Do you think the atmosphere of the brain tumor part is better than other parts?
8. What do you think about the working conditions of brain tumor professors at the hospital where you work? (select 1)

## Neurosurgery boarder common questionnaire

1. What is the number of beds at the hospital where you work?
2. During your current work, how much time is devoted to actual treatment and research of brain tumor patients?
3. How satisfied are you as a specialist in brain tumors?
  - 3-A. If you regret it, is there a special reason?
  - 3-B. If you can re-select your major, what would you like to select?
4. What do you think is most important to increase the application rate for brain tumor residency in the future?
5. What is the most difficult part about working at a hospital or academic institution while majoring in brain tumors?
6. Are there any other senior or junior professors currently specializing in brain tumors at the same institution?
7. If so, are you satisfied with your relationship with your senior or junior professor?
  - 7-A. If you are dissatisfied, what is difficult? (multiple selection possible)
  - 7-B. If you are satisfied, why? (multiple selection possible)
8. What do you think about the potential for future development in the field of brain tumors in the Korean medical system?
  - 8-A. If negative, for what reason?
  - 8-B. If positive, why?
9. Are you satisfied with your current medical treatment environment?
  - 9-A. If you are dissatisfied, what is difficult? (multiple selection possible)
10. If you had to choose your major again, would you choose brain tumor?
11. Why did you choose to major in brain oncology despite the difficult circumstances and why are you currently working there? (multiple selection possible)

## Korean Brain Tumor Society member common questionnaire

1. What do you think about the current activities of the Korean Brain Tumor Society?
2. Among the activities of the Korean Brain Tumor Society, what do you think is most necessary for future development?
3. What is the most important current problem of the Korean Brain Tumor Society?
4. What are the positive aspects of the current Korean Brain Tumor Society conference program?
5. What are the negative aspects of the current Korean Brain Tumor Society conference program?
6. Please tell us anything for the development of the Brain Tumor Society.

## Fellows in brain tumor department

1. What was the biggest reason for choosing to major in brain tumor?
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?
3. Are you satisfied with your current full-time residency program?
  - 3-1. If you are dissatisfied, what would you like to see improved upon?
4. What career path do you hope to pursue after completing your full-time medical degree?

**Supplementary Table 1.** Continued

5. What do you think about exchanges within the academic society with other universities and hospitals specializing in brain tumors?
6. Is there a hospital where you are scheduled to be appointed in the future?

Faculty below 5 years' experience

1. How many brain tumor surgeries (craniotomies and biopsies) are performed on average after appointment?
2. What is the biggest limitation you feel as a brain tumor specialist after being appointed?
3. What is the biggest disadvantage of the brain tumor department compared to other departments (cerebrovascular, spinal)?
4. Why do you not recommend the brain tumor part to your juniors?
5. In the field of neurosurgery, which part do you think has the best future prospects?
6. When you chose a brain tumor, does the picture you drew match the current picture?
7. What are your current concerns or difficulties as a brain tumor specialist? (multiple answers possible)

Faculty over 5 years' experience

1. What is your age?
2. Where do you work?
3. What is your current career as a brain tumor professor since you were first appointed?
4. How many brain tumor surgeries are performed on average?
5. If your child wants to become a doctor, would you recommend neurosurgery?
6. How satisfied are you with your job as a brain tumor specialist?
7. What are your current concerns or difficulties as a brain tumor specialist? (multiple answers possible)