

## Participant Information Sheet

Study Title: A Novel Preoperative Scoring Method for Cervical Dumbbell-Type Tumors: Improving Surgical Planning

Dear Potential Research Participant,

We invite you to participate in a study about Cervical Dumbbell-Type Tumors (DTCS). Please read the following information carefully before deciding whether to participate. If you have any questions, please feel free to contact us.

### Study Purpose

This study aims to develop and validate a new preoperative scoring and classification system for DTCS to improve surgical safety, reduce postoperative complications, and enhance patient outcomes.

### Eligibility

You may be eligible to participate if you have been diagnosed with a cervical dumbbell-type tumor and are between 20-70 years old.

### Study Procedures

If you agree to participate, we will:

- Collect your clinical data

- Perform MRI and MSCTA-VRT imaging examinations

- Use the new scoring system to evaluate your tumor

- Develop a surgical plan based on the scoring results

- Perform surgical treatment

- Conduct post-operative follow-ups to assess your recovery

### Potential Risks and Discomforts

The surgical method used in this study is the standard posterior midline approach. Possible risks include general surgery-related risks such as infection and bleeding. We will take all necessary measures to minimize these risks.

### Potential Benefits

While direct personal benefits cannot be guaranteed, the new scoring system may help better plan your surgery, potentially improving surgical safety and effectiveness.

### Confidentiality

Your personal information will be kept strictly confidential. All data will be processed and stored anonymously.

### Voluntary Participation

Participation in this study is entirely voluntary. You can withdraw at any time without

affecting the quality of your medical care.

#### Costs and Compensation

There will be no additional costs for participating in this study, and no financial compensation is provided.

#### Study Results

The study results may be published in academic journals. If you are interested, we can provide you with a summary of the results after the study is completed.

#### Contact Information

If you have any questions or concerns, please contact the principal investigator:

Professor Yongchuan Guo

Email: gyc@jlu.edu.cn

Phone: +86 13504310682

#### Ethical Approval

This study has been approved by the Ethics Committee of the Second Hospital of Jilin University.

#### Informed Consent

If you decide to participate in this study, we will ask you to sign an informed consent form. You will receive a copy of this information sheet and the consent form.

Thank you for considering participation in this study. Your participation will help improve DTCS treatment methods, potentially benefiting future patients.

[Date]

[Researcher's Signature]