

ICS 11.040.51
CCS C43

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**PHARMACEUTICAL INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

YY/T 1992-2025

**Robotically assisted surgery equipment - Summative usability
test methods**

采用机器人技术的辅助手术设备总结性可用性测试方法

Issued on: October 30, 2025

Implemented on: November 1, 2026

Issued by: National Medical Products Administration

Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

About this edition

Classification and status

How a Chinese national standard is set out

About this English translation

Foreword

This document was issued on 30 October 2025 by the National Medical Products Administration and takes effect on 1 November 2026.

It is a YY/T standard: it is recommended rather than compulsory, but it is the method a Chinese reviewer applies when assessing a registration submission.

It is classified under ICS 11.040.51, Chinese classification C43.

1 Scope

YY/T 1992 covers the human half of a surgical robot. It specifies the summative usability test methods for robotically assisted surgical equipment: the final validation study, run with representative users on the finished design, that demonstrates the interface can be used safely for its intended tasks. Summative testing is distinct from the formative work done during development, and Chinese reviewers treat the distinction seriously, which is why it has its own standard rather than a clause inside a general one. It was issued on the same day as YY/T 1993 on reliability verification and YY/T 1994 on vascular interventional control systems. For a manufacturer of surgical robots, this is the method the usability engineering file must follow for the Chinese market, and the reference a foreign vendor's IEC 62366 work will be read against.

About this edition

YY/T 1992-2025 is the current edition. It was issued on 30 October 2025 and has been in force since 1 November 2026.

The interval between issue and effect is the transition period. It exists so that producers,

laboratories and buyers can requalify products, revise procedures and use up documentation before the new text becomes the one that applies. The date on this page is the official one from the record of the Standardization Administration.

Classification and status

YY/T 1992-2025 is classified under ICS 11.040.51. ICS is the International Classification for Standards, the same scheme used by ISO and by the national bodies of most countries, which is what allows a Chinese standard to be placed beside its foreign counterparts on subject rather than on number.

Its Chinese Standard Classification code is CCS C43. CCS is the domestic scheme, a letter for the sector and two digits for the subject within it, and it is the code by which the standard is filed and searched in China.

The YY/T prefix marks an industry standard, issued by the authority for its sector rather than by the national body. It applies within that industry, and it becomes binding in the same ways a recommended national standard does: when a contract, a regulation or a declaration of conformity names it.

How a Chinese national standard is set out

Chinese national standards are drafted to the rules of GB/T 1.1, which fixes the order in which a standard is set out. The document opens with a foreword recording the issuing bodies, the relationship to any previous edition and the technical committee responsible for it. Clause 1 is the scope. Clause 2 lists the normative references - the other standards that have to be applied together with this one, and without which its requirements cannot be met. Clause 3 gives the terms and definitions. The technical clauses follow: the requirements themselves, the test or measurement methods by which conformity is established, the inspection rules that say how a lot is sampled and judged, and, for a product standard, the provisions on marking, packaging, transport and storage. Annexes, normative or informative, come last.

YY/T 1992-2025 runs to 55 pages in the English translation. What is delivered is the complete document in that order: every clause, every table, every figure and every annex of the Chinese original, with the same numbering, so that a reference to a clause number in a contract or a test report points to the same place in both languages.

About this English translation

The English edition of YY/T 1992-2025 is a full translation of the official Chinese text, not a summary, an abstract or a machine rendering left unchecked. Clause and subclause numbers, table and figure numbers and annex letters are those of the original, because they are what a specification, a purchase order or a test report cites.

Technical terms are translated against the vocabulary standards of the same field, so that a term used in YY/T 1992-2025 reads the same way as in the other Chinese standards it is used beside. Where a term has an established English form in an ISO or IEC document on the same subject, that form is used; where China's term has no foreign counterpart, it is translated literally and the Chinese is kept alongside it rather than replaced by an approximation.

Quantities, units and symbols are carried over unchanged. Chinese standards use SI, so a value in the translation is the value in the original document, not a conversion, and a limit read from the English text is the limit that will be applied by a Chinese inspection body reading the Chinese one.

This page is compiled from the official publication record: the standard number and both titles, the issuing bodies, the dates of issue and effect, the ICS and CCS classification. The requirements, limits, tables and test conditions are in the document itself.