



Research on the Score Evaluation of Clinical Practice Assistant Physician Qualification Examination for Candidates of Chongqing Medical and Pharmaceutical College

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Abstract. Objective: The purpose of this paper is to study the results and pass rate of the clinical practice assistant physician qualification examination of candidates in Chongqing Medical and Pharmaceutical College, explore the countermeasures to improve the pass rate of the clinical practice assistant physician qualification examination, and provide reference for strengthening medical education in Chongqing Medical and Pharmaceutical College and improving the quality of medical personnel training. Methods: The results and pass rates of 1247 candidates for the clinical practice assistant physician qualification examination in Chongqing Medical and Pharmaceutical College from 2018 to 2020 were retrospectively analyzed, and compared with the national average. Results: From 2018 to 2020, the practical skills pass rate, comprehensive written test pass rate, and total pass rate of candidates for the clinical practice assistant physician qualification examination of Chongqing Medical and Pharmaceutical College were ahead of the national average, 8.96%, 15.67%, and 18.01% higher than the national average, respectively. Compared with the national average level in the same period, the gap between the pass rate of practical skills is gradually widening, which is 3%, 8.43%, and 15.46% higher than the national average. The average mastery rates of the four knowledge modules of basic medicine, clinical medicine, medical humanities and preventive medicine are all higher than the national average, 2.75%, 4.09%, 2.11% and 5% higher than the national level respectively. Within three years, the mastery rates of the four major knowledge modules of the candidates of Chongqing Medical and Pharmaceutical College are: clinical medicine, medical humanities, basic medicine, and preventive medicine. Summary: The overall teaching quality of clinical medicine in Chongqing Medical and Pharmaceutical College is relatively high, and the graduates trained have good overall quality, and basically have the professional knowledge and skills necessary for clinical medical activities.

Keywords: Clinical practice assistant physician qualification examination · Pass rate · Medical education · Teaching reform

1 Introduction

Physician qualification examination is an industry entrance examination to evaluate whether health professional and technical personnel have the necessary professional knowledge and skills to practice, and to a certain extent reflects the medical level of a country or region [1]. China's physician qualification examination is divided into two levels: licensed physician qualification examination and licensed assistant physician qualification examination, and four categories: clinical, stomatology, traditional Chinese medicine, and public health. Among them, the clinical physician qualification examination includes two parts: the practical skills examination and the comprehensive medical written examination. The practical skills examination is organized and implemented by the provincial health administrative department, and the comprehensive written examination of medicine is implemented as a national unified examination, which includes four parts: basic medicine, clinical medicine, medical humanities and preventive medicine [2]. The "Interim Measures for Physician Qualification Examination" [3] stipulates that candidates must pass the practical skills examination before they are eligible to participate in the comprehensive written medical examination.

In recent years, the qualification examination for licensed physicians and licensed assistant physicians has become a hot topic in the medical and health industry, and the test scores and pass rates have also become important indicators to measure the quality of personnel training in medical schools [4]. It has become a common goal of medical schools to integrate medical student training with the national medical practitioner qualification examination. [1, 5–7].

In this paper, through a retrospective analysis of the scores and pass rates of the candidates who participated in the clinical practice assistant physician qualification examination in Chongqing Medical and Pharmaceutical College from 2018 to 2020, and compared with the national average, this paper explores the countermeasures to improve the passing rate of the clinical practice assistant physician qualification examination, and provides reference for strengthening medical education in Chongqing Medical and Pharmaceutical College and improving the quality of medical personnel training.

2 Objects and Methods

2.1 Research Objects

The research objects are 1247 three-year students of clinical medicine who graduated from Chongqing Medical and Pharmaceutical College from June 2017 to June 2019, and participated in the National Clinical Practice Assistant Physician Qualification Examination for the first time from September 2018 to September 2020. National candidates refer to the full-time junior college students majoring in clinical medicine in general higher education institutions across the country.

2.2 Research Content

The relevant indicators are compared and analyzed with the national level. The relevant indicators including: The practical skills pass rate, comprehensive written test pass rate, total pass rate of the candidates for the clinical practice assistant physician qualification examination of Chongqing Medical and Pharmaceutical College, the four modules of basic medicine, clinical medicine, medical humanities, and preventive medicine, and the average mastery rate of each discipline, from September 2018 to September 2020.

2.3 Research Methods

Using the retrospective analysis method, the corresponding database was established with Excel software to analyze the results and pass rate of the clinical practice assistant physician qualification examination for graduates of Chongqing Medical and Pharmaceutical College from September 2018 to September 2020, and compare them with the national average level.

2.4 Data Sources

All clinical practice assistant physician qualification examination results data are from the National Medical Examination Center.

3 Results

3.1 Comparison of Pass Rate of Clinical Practice Assistant Physician Qualification Examination

For three consecutive years from 2018 to 2020, the practical skills pass rate, comprehensive written test pass rate and overall pass rate of the clinical practice assistant physician qualification examination for candidates of Chongqing Medical and Pharmaceutical College were higher than the national average. Among them, the total pass rate is 16.75%, 14.95%, and 22.32% higher than the national average, and the total pass rate in three years is 18.01% higher than the national average. From 2018 to 2020, the gap between the practical skills pass rate of candidates of Chongqing Medical and Pharmaceutical College and the national average level in the same period is gradually widening, which is 3%, 8.43%, and 15.46% higher than the national average. In addition to 2019, the gap between the comprehensive written test pass rate and total pass rate of candidates from Chongqing Medical and Pharmaceutical College and the national average in the same period is also gradually widening (Table 1 and Fig. 1).

3.2 Comparison of the Average Mastery Rate of the Four Knowledge Modules in the Comprehensive Written Test

In general, from 2018 to 2020, the average mastery rate of the four knowledge modules of basic medicine, clinical medicine, medical humanities and preventive medicine for candidates of Chongqing Medical and Pharmaceutical College was higher than the

Table 1. The pass rate of clinical practice assistant physician qualification examination for candidates from Chongqing Medical and Pharmaceutical College and candidates from colleges and universities nationwide from 2018 to 2020

Year	Pass rate of practical skills (%)		Pass rate of comprehensive written examination (%)		Total pass rate (%)	
	Chongqing Medical and Pharmaceutical College	colleges and universities nationwide	Chongqing Medical and Pharmaceutical College	colleges and universities nationwide	Chongqing Medical and Pharmaceutical College	colleges and universities nationwide
2018	78.57	75.57	72.73	55.87	57.14	40.39
2019	81.6	73.17	62.11	49.01	50.68	35.73
2020	83.16	67.70	71.34	54.30	58.95	36.63

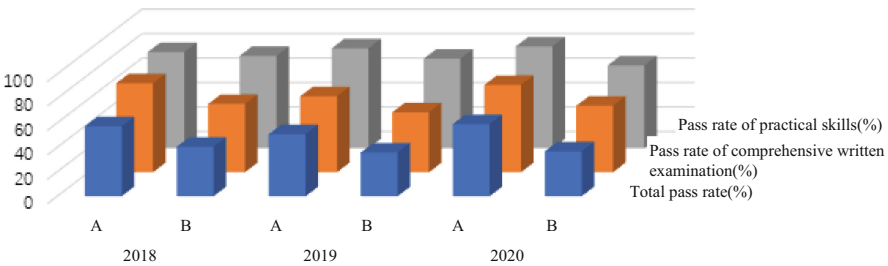


Fig. 1. The comparison chart of the passing rate of clinical practice assistant physician qualification examination for the candidates of Chongqing Medical and Pharmaceutical College and colleges and universities nationwide in 2018–2020. A represents “Chongqing Medical and Pharmaceutical College”; B represents “colleges and universities nationwide”.

national average. They were 2.75%, 4.09%, 2.11%, and 5% higher than the national average. Within three years, the mastery rates of the four major knowledge modules of the candidates of Chongqing Medical and Pharmaceutical College are from high to low: clinical medicine, medical humanities, basic medicine, and preventive medicine. (Table 2).

3.3 Comparison of the Mastery Rate of the Cognitive Levels of the Four Knowledge Modules in the Comprehensive Written Test

From 2018 to 2020, the average mastery rate of each cognitive level of the four knowledge modules of basic medicine, clinical medicine, medical humanities and preventive medicine, namely memory, comprehension and application, of candidates of Chongqing Medical and Pharmaceutical College was higher than the national average level (Table 3).

Table 2. The mastery rate of each module in the comprehensive written test of Chongqing Medical and Pharmaceutical College and national average for colleges and universities from 2018 to 2020 (mastery rate, %)

Knowledge module	Data source	2018	2019	2020
Basic medicine	Chongqing Medical and Pharmaceutical College	63.02	54.37	56.45
	colleges and universities nationwide	58.64	53.44	53.5
Clinical medicine	Chongqing Medical and Pharmaceutical College	67.13	64.13	67.15
	colleges and universities nationwide	62.28	60.71	63.16
Medical humanities	Chongqing Medical and Pharmaceutical College	57.08	60.86	62.92
Medical humanities	colleges and universities nationwide	57.35	56.72	60.47
Preventive medicine	Chongqing Medical and Pharmaceutical College	58.26	54.85	45.27
	colleges and universities nationwide	54.23	49.55	39.59

^aNote: Mastery rate: the ratio of a candidate’s score in a subject to the full score of the subject, which is used to indicate the candidate’s mastery of the subject’s knowledge. Average mastery rate: The arithmetic mean of the sample candidates’ mastery rate. The score can be seen from the average mastery rate.

Table 3. The mastery of the cognitive level of each module of the comprehensive written test of Chongqing Medical and Pharmaceutical College and national average for colleges and universities from 2018 to 2020 (mastery rate, %)

Knowledge module		Data source	2018	2019	2020
Basic medicine	Memory	Chongqing Medical and Pharmaceutical College	61.97	63.65	65.5
		colleges and universities nationwide	56.97	62.59	64.14
	Comprehension	Chongqing Medical and Pharmaceutical College	60.05	48.66	51.71
		colleges and universities nationwide	55.81	48.06	50.29
	Application	Chongqing Medical and Pharmaceutical College	68.69	57.42	56.3
		colleges and universities nationwide	64.48	56.13	51.3
Clinical medicine	Memory	Chongqing Medical and Pharmaceutical College	65.38	63.7	67.43
		colleges and universities nationwide	60.06	59.86	62.68
	Comprehension	Chongqing Medical and Pharmaceutical College	67.44	63.56	73.56
		colleges and universities nationwide	63.12	60.02	69.33

(continued)

Table 3. (continued)

Knowledge module		Data source	2018	2019	2020
Medical humanities	Application	Chongqing Medical and Pharmaceutical College	67.49	64.77	62.95
		colleges and universities nationwide	62.45	61.68	59.4
	Memory	Chongqing Medical and Pharmaceutical College	40.33	76.02	55.25
		colleges and universities nationwide	39.03	69.06	53.24
	Comprehension	Chongqing Medical and Pharmaceutical College	55.36	47.05	63.2
		colleges and universities nationwide	55.16	41.31	61.51
Application	Chongqing Medical and Pharmaceutical College	63.34	62.34	65.49	
	colleges and universities nationwide	64.46	59.23	62.25	
Preventive medicine	Memory	Chongqing Medical and Pharmaceutical College	62.41	63.79	54.56
		colleges and universities nationwide	56.48	58.3	43.39
	Comprehension	Chongqing Medical and Pharmaceutical College	59.71	59.59	53.08
		colleges and universities nationwide	57.31	54.44	48.91
	Application	Chongqing Medical and Pharmaceutical College	51.57	42.01	32.8
		colleges and universities nationwide	46.59	36.7	28.36

^aNote: Mastery rate: the ratio of a candidate’s score in a subject to the full score of the subject, which is used to indicate the candidate’s mastery of the subject’s knowledge. Average mastery rate: The arithmetic mean of the sample candidates’ mastery rate. The score can be seen from the average mastery rate.

3.4 Comparison of the Average Mastery Rate of Various Subjects in the Comprehensive Written Test

In general, from 2018 to 2020, the average mastery rate of each subject in the comprehensive written test for candidates of Chongqing Medical and Pharmaceutical College was higher than the national average for the same period (Table 4). Candidates from Chongqing Medical and Pharmaceutical College had the highest scoring rate in the clinical medicine part of obstetrics and gynecology, at 69.48%, followed by surgery at 67.35%, and internal medicine with the lowest score rate at 65% (Fig. 2).

Table 4. The mastery rate of each subject in the comprehensive written test of Chongqing Medical and Pharmaceutical College and national average for colleges and universities from 2018 to 2020 (mastery rate, %)

	Subject	Data source	2018	2019	2020	
Basic medicine	Pathology	Chongqing Medical and Pharmaceutical College	62.4	47.86	57.51	
		colleges and universities nationwide	58.1	49.01	51.33	
	Physiology	Chongqing Medical and Pharmaceutical College	49.65	40.26	55.18	
		colleges and universities nationwide	45.77	40.78	56.3	
	Biochemistry	Chongqing Medical and Pharmaceutical College	68.1	58.1	47.32	
		colleges and universities nationwide	65.31	55.2	44.94	
	Pharmacology	Chongqing Medical and Pharmaceutical College	72.49	70.92	64.81	
		colleges and universities nationwide	66.16	68.45	60.09	
	Clinical medicine	Internal medicine	Chongqing Medical and Pharmaceutical College	66	63.91	65.08
			colleges and universities nationwide	60.8	60.31	61.2
surgery		Chongqing Medical and Pharmaceutical College	67.87	62.53	71.66	
		colleges and universities nationwide	63.66	59.13	68.01	
Obstetrics and gynecology		Chongqing Medical and Pharmaceutical College	70.86	65.06	72.52	
		colleges and universities nationwide	66.06	62.89	67.54	
Pediatrics		Chongqing Medical and Pharmaceutical College	66.42	67.35	61.37	
		colleges and universities nationwide	61.56	63.44	57.2	
Medical humanities		Sanitary regulation	Chongqing Medical and Pharmaceutical College	56.97	49.61	49.68
			colleges and universities nationwide	57.86	45.97	47.44
	Medical ethics	Chongqing Medical and Pharmaceutical College	82.66	72.87	69.19	
		colleges and universities nationwide	82.82	66.42	64.98	
	Medicopsychology	Chongqing Medical and Pharmaceutical College	31.61	60.1	69.9	
		colleges and universities nationwide	31.37	57.78	69	

(continued)

Table 4. (continued)

	Subject	Data source	2018	2019	2020
Preventive medicine	Preventive medicine	Chongqing Medical and Pharmaceutical College	58.26	54.85	45.27
		colleges and universities nationwide	54.23	49.55	39.59

^aNote: Mastery rate: the ratio of a candidate’s score in a subject to the full score of the subject, which is used to indicate the candidate’s mastery of the subject’s knowledge. Average mastery rate: The arithmetic mean of the sample candidates’ mastery rate. The score can be seen from the average mastery rate.

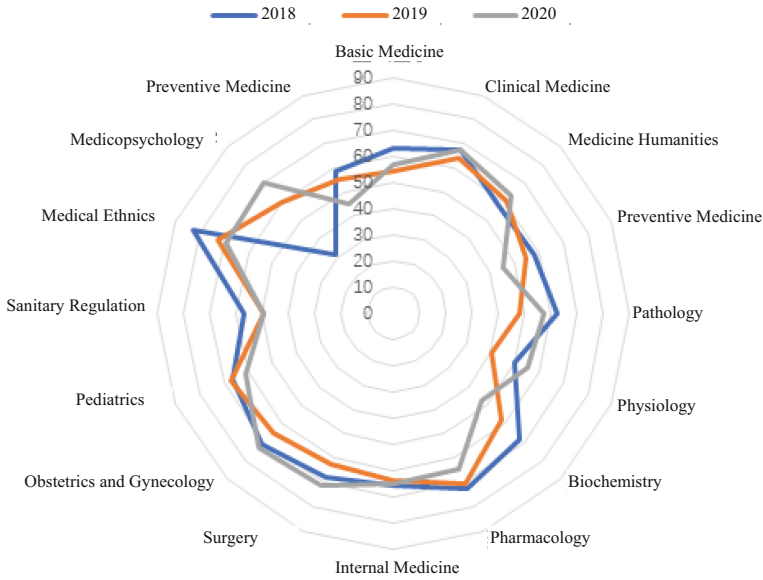


Fig. 2. The average mastery rate of each knowledge module and second-level subjects in the comprehensive written test of Chongqing Medical and Pharmaceutical College candidates from 2018 to 2020.

4 Discussions

For three consecutive years from 2018 to 2020, the practical skills pass rate, comprehensive written test pass rate and total pass rate of candidates for the clinical practice assistant physician qualification examination of Chongqing Medical and Pharmaceutical College were ahead of the national average, 8.96%, 15.67%, and 18.01% higher than the national average level, respectively. This shows that the overall level of teaching quality of clinical medicine in Chongqing Medical and Pharmaceutical College is relatively high, and the graduates trained have good overall quality and basically have the professional knowledge and skills necessary for engaging in clinical medical activities. This is consistent with the training orientation of clinical medicine professionals in our school,

and is inseparable from the school's long-term emphasis on the examination of clinical practice assistant physicians, insisting on the construction of teaching connotation, and carrying out teaching reforms.

From 2018 to 2020, the national average pass rate of practical skills in the clinical practice assistant physician qualification examination has decreased year by year, while the pass rate of Chongqing Medical and Pharmaceutical College has increased year by year, and the gap is gradually widening, 3%, 8.43%, and 15.46% higher than the national average. This shows that our school's practical teaching effect is good, and the clinical medicine graduates have strong practical ability, which meets the requirements of grass-roots health personnel training. However, it is worth noting that although Chongqing Medical and Pharmaceutical College has achieved good results in the national clinical practice assistant physician qualification examination in recent years, there is still a certain gap compared with the institutions with the highest pass rate in the country. Every year, some graduates still fail to pass the clinical practice assistant physician qualification examination.

Judging from the mastery of the four knowledge modules of basic medicine, clinical medicine, medical humanities and preventive medicine, the average mastery rate of Chongqing Medical and Pharmaceutical College from 2018 to 2020 is higher than the national average level. The average mastery rate of each cognitive level, that is, memory, comprehension and application, is higher than the national average. Within three years, the mastery rates of the four major knowledge modules of the candidates of Chongqing Medical and Pharmaceutical College are in descending order: clinical medicine, medical humanities, basic medicine, and preventive medicine, which are not completely consistent with the results of other colleges. [1, 2] This shows that the students in Chongqing Medical and Pharmaceutical College have a good grasp of clinical medical knowledge, but not enough knowledge of basic medicine and preventive medicine. The reasons for the analysis may be: the clinical medicine students in Chongqing Medical and Pharmaceutical College attach great importance to the professional knowledge of clinical medicine, have strong enthusiasm for learning, and invest more time and energy, while the training time of the three-year specialist clinical medicine is limited, and the basic medical knowledge itself is relatively difficult, which inevitably leads to the weak basic medical knowledge of students. In addition, the concept and phenomenon of "emphasizing clinical practice and ignoring prevention" is prevalent among teachers and students [2], and insufficient attention is paid to preventive medicine and public health education, resulting in the lowest mastery rate of preventive medicine among students, and the emphasis on preventive medicine by schools and teachers needs to be strengthened.

In summary, in order to further improve the quality of clinical medicine education in our school and increase the pass rate of clinical practice assistant physician qualification examinations for graduates majoring in clinical medicine, Chongqing Medical and Pharmaceutical College has carried out a series of education and teaching reforms oriented to the clinical practice assistant physician qualification examination:

4.1 Taking the Clinical Practice Assistant Physician Qualification Examination as the Guide, and Strengthening the Construction of Teaching Staff

In response to the problem of the low mastery rate of basic medicine for candidates in Chongqing Medical and Pharmaceutical College, the school should regularly organize centralized seminars for teachers of basic medicine and clinical medicine to jointly study the examination outline for clinical practice assistant physicians, and to strengthen the intersection and integration between basic medicine and clinical medicine teaching content, and explore how to better combine basic knowledge with clinical applications. For example, when explaining the laws of pathology in the teaching of basic medicine, teachers can combine examples of common diseases to improve students' interest in learning and make students realize that learning basic knowledge is for better clinical application; in the process of clinical medicine teaching, teachers can guide students to use basic medical knowledge such as physiology and pathology to analyze the etiology, pathogenesis and outcome of diseases, teach students to organically combine basic medical knowledge with clinical practice, and improve students' comprehensive abilities on application and analysis.

4.2 Revising the Syllabus and Teaching Content Based on the Clinical Practice Assistant Physician Qualification Examination

As the baton of teaching, ensuring that the syllabus is consistent with the syllabus of the clinical practice assistant physician examination is the key to improving the pass rate of the clinical practice assistant physician qualification examination [8]. According to the latest version of the clinical practice assistant physician examination syllabus, combined with the needs of students' knowledge, ability and quality in clinical practice, the existing curriculum syllabus has been revised and adjusted, and the teaching content and teaching hours have been redistributed. All the content required by the clinical practice assistant physician examination syllabus have been incorporated into the teaching content. In the teaching process, the teachers closely follow the syllabus, the test sites of clinical practice assistant physician examination have been organically integrated into classroom teaching, and the real exam questions of clinical practice assistant physician examination over the years have been used as classroom exercises to teach students how to flexibly use the knowledge they have learned to solve problems.

In addition, since the country adjusts the examination syllabus of clinical practice assistant physician examination every year, the school regularly organize teachers of each course to prepare lessons collectively, research and analyze the latest clinical practice assistant physician examination syllabus, summarize its changing trends, and adjust the syllabus and teaching content in a timely manner, so as to ensure that teaching is synchronized with the qualification examination of clinical practice assistant physicians.

4.3 Bridging the Gap Between Prevention and Clinical Practice Based on the Examination of Clinical Practice Assistant Physicians

In China's three-, five-, and eight-year medical education system, medical students trained by three-year medical specialist education will be the main force in primary

medical and health care at present and for a long period of time in the future [9]. The professional orientation of grassroots medical and health personnel is to combine diagnosis and treatment with prevention, providing not only basic medical services for patients, but also preventive health care services for healthy people. Primary healthcare professionals are the “gatekeepers” of primary healthcare work in my country’s healthcare service system [10]. Therefore, the three-year medical education should focus on the construction of public health disciplines and on the cultivation of students’ knowledge and ability of preventive medicine.

From 2018 to 2020, the average mastery rate of the preventive medicine knowledge module of the clinical practice assistant physician qualification examination of candidates of Chongqing Medical and Pharmaceutical College is the lowest, which may be related to the concept of “focusing on clinical practice and ignoring prevention” among teachers and students. In order to improve this situation, the school needs to strengthen the training of preventive medicine teachers, and apply the prevention-oriented teaching concept throughout the training of clinical medical students. The COVID-19 pandemic that spreads around the world once again highlights the importance of public health, which is an important guarantee for national security and social stability [10]. In this way, the important position of preventive medicine needs to be emphasized to students, and the teaching of major infectious diseases and public health emergency response should be strengthened, so that students have the ability to detect crises, report early warning and emergency response. While strengthening theoretical teaching, the school can organize students to go to the Center for Disease Control and Prevention for traineeship, and go deep into the community and streets to carry out public health practice, so that students can have a deeper understanding of the importance and necessity of preventive medicine in practice, so as to enhance initiative and motivation to learn preventive medicine.

4.4 Taking the Clinical Practice Assistant Physician Examination as the Guide, and Reforming the Assessment Form

According to the syllabus of the clinical practice assistant physician examination, centering on the assessment methods and proposition characteristics of the clinical practice assistant physician qualification examination, the proposition reform of the curriculum examination and comprehensive examination has been carried out, and the construction of the examination question bank has been strengthened. A variety of examination forms have been used to comprehensively evaluate the knowledge, ability and quality of clinical medical students.

At present, Chongqing Medical and Pharmaceutical College implements a three-stage comprehensive examination. The first stage is the examination at the end of each course. For all subjects required by the clinical practice assistant physician examination syllabus, the test papers must be formulated according to the difficult points and question types of the clinical practice assistant physician qualification examination; The second stage is the pre-internship comprehensive examination. Before the clinical medical students enter the clinical practice, the school uniformly organizes theoretical and skill training. After the training, a theoretical and practical skills examination will be conducted. The question types, difficulties and scoring standards of the examinations are

all in line with the clinical practice assistant physician qualification examination; The third stage is the comprehensive graduation examination, which is conducted after the clinical practice, which focuses on assessing students' theoretical knowledge, clinical skills and ability to comprehensively apply knowledge.

5 Conclusion

The score and pass rate of the qualification examination for practicing assistant physicians are important indicators to measure the quality of personnel training in medical schools. Chongqing Medical and Pharmaceutical College integrates the training of clinical medical students with the National Clinical Practice Assistant Physician Qualification Examination, conducts an in-depth analysis of the clinical practice assistant physician qualification examination of candidates in the school in recent years, and actively carries out a series of education and teaching reforms, striving to further improve the passing rate of the clinical practice assistant physician qualification examination in our school to improve the quality of medical education and the quality of medical personnel training.

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