

the research object, and the improvement degree of patients with cognitive impairment was analyzed by Iterative Dichotomiser 3 (ID3) algorithm. The evaluation content includes four aspects: language ability, attention, memory ability and memory ability. The evaluation results are no improvement, slight improvement and obvious improvement. The study period was 6 months. In order to facilitate the expression of the research results, the average value of all objects is selected as the final result.

Methods: The latest version of Minitab20 data statistics software is used to analyze the improvement of multimodal learning on cognitive impairment after data science is applied to the research of investment psychology and behavior.

Results: Table 1 refers to the improvement degree of multimodal learning applied by data science to investment psychology and behavior research on cognitive impairment. On the whole, the multimodal learning of applying data science to investment psychology and behavior research has significantly alleviated the cognitive impairment of patients with mild cognitive impairment after the intervention, especially in language ability and recall function. Therefore, applying data science to multimodal learning of investment psychology and behavior research can alleviate cognitive impairment and improve the individual accurate cognitive level.

Table 1. The improvement of multimodal learning of data science applied to investment psychology and behavior research on cognitive impairment

Category	Before	After 1 month	After 3 months	After 6 months
Language ability	89.62	91.23	94.26	96.35
Attention	87.66	88.69	91.20	94.56
Memory ability	86.35	89.36	92.31	94.26
Recall ability	87.36	89.36	92.32	95.36

Conclusions: The multimodal learning intervention program, which applies data science to investment psychology and behavior research, has a good effect on mild cognitive impairment, especially in language ability and recall function. The results provide a new idea for the clinical intervention of mild cognitive impairment.

* * * * *

THE EFFECT OF TEACHING REFORM PATH OF VOCAL MUSIC COURSE IN COLLEGES AND UNIVERSITIES ON STUDENTS' COGNITIVE ABILITY FROM THE PERSPECTIVE OF EDUCATIONAL PSYCHOLOGY

Xiaoyan Guo

Conservatory of Music, Henan University, Kaifeng 475001, China

Background: Educational psychology is an important branch of applied psychology. It is an interdisciplinary subject of pedagogy and psychology. The main research content is the basic psychological laws of education and teaching in the context of education and teaching. There is usually an intersection between school and psychology. The focus of educational psychology is to analyze theoretical work, and the focus of school education is to engage in school and related specific affairs. Educational psychology is based on psychology and involves teaching design, educational technology, special education and classroom management. The purpose of educational psychology is to guide teachers to complete teaching work. The future research trend is learners' subjective initiative, the action mechanism in the learning process, the influence of situational environment on learning results, teaching mode and so on. Educational psychology can be simply understood as all the sciences involved in the process of learning and teaching, including teaching methods, students' characteristics and teachers' characteristics. According to the type of subject, teachers can adopt different teaching schemes. For physics, chemistry and other highly operational disciplines, the teaching method should adopt a highly operational scheme. For drama and other art programs, the teaching method should adopt the teaching scheme of role-playing. At the same time, different teachers will have different teaching methods due to personality reasons. Serious teachers' teaching methods are relatively conservative and fixed, while cheerful and lively teachers may be more suitable for activity teaching method. At present, the relevant research of educational psychology mainly focuses on the active challenges faced by students in the process of growth, learning initiative, the change of teaching methods and the design of teaching courses.

At present, the teaching process of vocal music course in colleges and universities is facing very big problems, which are embodied in the weak professional foundation of students, the limited time of teachers in class, the single and conservative teaching methods, the lack of teachers' professional ability and the limited space for practical training. In the process of vocal music teaching, teachers usually carry out teaching work in the same way, which will lead to low learning enthusiasm of students. The learning time of vocal music courses set up by the school is relatively limited. Teachers focus on indoctrination teaching and theory teaching in the teaching process, which will lead to the lack of innovation in teaching work. Teaching methods are closely related to students' learning effect, which will limit students' interest and potential. In view of these problems, the teaching reform of vocal music course in colleges and universities combined with educational psychology has become a hot topic discussed by educators. The teaching reform of vocal music course in colleges and universities combined with educational psychology needs to improve students' music perception, diversify teaching methods, strengthen the construction of teachers' team, improve the course content system, and pay attention to practical training and expansion.

Objective: This paper analyzes the effect of the teaching reform path of vocal music course in colleges and universities under educational psychology, in order to improve the teaching quality of vocal music course in colleges and universities and do a good job in teaching guarantee for the artistic level of college students.

Research objects and methods: The students of two schools are selected as the research object, and the teaching reform path of vocal music course in colleges and universities is evaluated by a dichotomous K-means clustering analysis algorithm. The number of students in each school is 100. The evaluation contents are to improve students' music perception, diversify teaching methods, strengthen the construction of teachers' team, improve the curriculum content system, and pay attention to practical training and expansion. The evaluation results are rand index and adjusted rand index, in which the value range of rand index is [0,1], and the value range of adjusted Rand index is [-1,1]. In order to ensure the reliability of the results, the average value of the evaluation results of all research objects is taken as the result.

Methods: Through Minitab20 data statistical analysis software, this paper analyzes the evaluation results of vocal music teaching reform path in colleges and universities under the background of educational psychology.

Results: Table 1 refers to the evaluation results of the teaching reform path of vocal music courses in colleges and universities under the educational psychology of school. It can be seen from Table 1 that the rand index and adjusted rand index are high in five aspects: improving students' music perception, diversifying teaching methods, strengthening the construction of teachers' team, improving the curriculum content system, paying attention to practical training and expansion. The value range of rand index is 0.82-0.89, and the value range of adjusted rand index is 0.85-0.93.

Table 1. Evaluation results of the teaching reform path of vocal music course in colleges and universities under educational psychology

Type	Rand index	Adjusted Rand index
Improve students' music perception	0.88	0.91
Diversified teaching methods	0.82	0.93
Strengthen the construction of teachers' team	0.89	0.87
Improve the curriculum content system	0.82	0.86
Pay attention to practical training and development	0.83	0.85
Improve students' music perception	0.84	0.86

Conclusions: The teaching reform path of college vocal music course combined with educational psychology proposed by the research has ideal evaluation results. The follow-up teaching reform of college vocal music course can learn from the research ideas, which can make corresponding contributions to the improvement of the professional ability of college art students.

* * * * *

INFLUENCE OF COLLEGE COUNSELORS' IDEOLOGICAL AND POLITICAL EDUCATION ON ALLEVIATING COLLEGE STUDENTS' PSYCHOLOGICAL ANXIETY UNDER THE NEW MEDIA ENVIRONMENT