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Leadership Supervision of Teacher Performance Management in the Learning Process in Secondary Schools

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ABSTRAK

Dalam penelitian sebelumnya kepala sekolah tidak melaksanakan tugas supervisi terhadap pengajaran guru secara maksimal dan supervisi yang dilakukan lebih bersifat birokrasi dan otokratis yang menekankan pada hierarki. Fakta lain 44% guru tidak menyukai supervisi yang dilakukan di kelas baik oleh kepala sekolah maupun wakilnya, 5,88% guru sekolah menengah tidak setuju dengan observasi pengajaran. Hal ini urgen untuk diteliti karena ada perbedaan antara teori dan realiti. Tujuan penelitian ini dilakukan untuk mengetahui pengaruh supervisi terhadap kinerja mengajar guru di sekolah menengah. Metode dalam penelitian kuantitatif. Subjek berjumlah 33 guru sekolah menengah dari wilayah klaten. Teknik pengumpulan data dengan menggunakan seperangkat instrumen obervasi belajar mengajar yang telah diadaptasi dan digunakan oleh semua sekolah untuk menilai, pengelolaan program pendidikan. Teknik analisis, kinerja mengajar guru diukur berdasarkan Rencana Pembelajaran Harian, perangkat induksi, penyampaian pengajaran, teknik bertanya, keterlibatan siswa, penguatan, pelatihan dan tugas siswa, pengecekan pelatihan dan tugas siswa, penutupan pembelajaran dan pengelolaan kelas sebelum dan sesudah supervisi klinis. Hasil, ditemukan dalam penelitian ini menunjukkan bahwa guru di sekolah mengalami kekurangan dalam perencanaan pembelajaran di kelas. Ditemukan bahwa Supervisi klinis juga membantu guru dalam meningkatkan proses belajar mengajar dengan lebih efektif sehingga pengajaran dapat meningkatkan penguasaan siswa. Kesimpulan, Supervisi klinis dapat dijadikan pedoman kepada guru dan siswa di sekolah menengah untuk meningkatkan ilmu

pengetahuan. Implikasi penelitian, memberikan gambaran utuh dalam tentang supervisi klinis dalam meningkatkan persiapan dan pengetahuan siswa.

ABSTRACT

In previous research, the principal did not carry out the task of supervising teacher teaching optimally and the supervision carried out was more bureaucratic and autocratic, emphasizing hierarchy. Another fact is that 44% of teachers do not like the supervision carried out in the classroom by both the principal and his deputy, and 5.88% of secondary school teachers do not agree with teaching observa? In: This is urgent to research because there is a difference between theory and reality. This research aimed to determine the effect of supervision on the teaching performance of teachers in secondary schools. Methods in quantitative research. The subjects were 33 secondary school teachers from the Klaten area. The data collection technique uses a set of teaching and learning observation instrumed that have been adapted and used by all schools to assess and manage educational programs. And sist techniques, teacher teaching performance is measured based on Daily Learning Plans, induction tools, teaching delivery, questioning techniques, student involvement, reinforcement, student training, and assignments, checking student training and assignments, learning closure, and classroom management before and after clinical supervision. The results found in this research indicate that teachers in schools experience deficiencies in planning learning in the classroom. It was found that clinical supervision also helps teachers improve the teaching and learning process more effectively so that teaching can improve student mastery. Conclusion, Clinical supervision can be used as a guide for teachers and students in secondary schools to improve knowledge. The research implications provide a complete picture of clinical supervision in improving student preparation and knowledge.

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1. INTRODUCTION

The Indonesian Ministry of Education has prepared guidelines for educational development by developing the curriculum until 2022 through the Education Development Master Plan (Husamah et al., 2022). Educational Development is designed to ensure quality education for all students and focuses on developing students in terms of knowledge and understanding by including it in the curriculum and extracurricular activities (Kim et al., 2023; Bolton-King, 2022). Curriculum areas in secondary schools are divided into science, mathematics, languages, technical and vocational, and humanities (Ahmad et al., 2023; Josa & Aguado, 2021). Each field is led by a head of field who has a subject committee. The main task of teachers in each committee is to manage teaching and learning activities in the class based on annual and daily planning recorded in the Learning Implementation Plan book (Mishra et al., 2020; Chaharbashloo et al., 2020). Every teacher is obliged to record daily teaching objectives in a book and keep and maintain the book (Mishra et al., 2020). To achieve the desires of the curriculum, schools as educational institutions have roles and responsibilities to achieve the goals outlined by the curriculum. One important component in schools is the teaching and learning process. Through supervision activities, learning implementation can be tracked and monitored to ensure its effectiveness. The principal as a teaching leader plays the role of teaching supervisor to ensure that what is expected by the Ministry of Education and Culture and parents can be achieved. Through a circular, the Expert has provided guidelines regarding the implementation of teaching supervision but has not provided a format regarding what must be supervised. The School Inspectorate introduced the Indonesian Education Quality Standards as guidelines for monitoring the teaching and learning process carried out in the classroom.

Good supervision includes providing guidance, direction, and telling what should be done, not looking for teacher mistakes. Supervision as the backbone of school effectiveness (Luca et al., 2020). Effective supervision requires good planning and is carried out continuously to ensure the achievement of the aims and objectives of teaching carried out by a teacher. Systematic teaching supervision can identify teachers' teaching strengths and weaknesses. The emphasis on student achievement, accountability, and competency impacts teacher performance assessments. The limited time factor causes school principals to provide less supervision over teaching at school. In this context, school principals only spend 25% of their time managing the curriculum and supervising teacher teaching (García-Lázaro et al., 2022). Meanwhile, 75% of his working time is spent on administration and stude affairs. This not much different from schools in New York, America, where a teacher who teaches five hours a day (900 hours a year) is only supervised once, and 99.9% of the time the teacher teaches without full supervision (Xu et al., 2020). Teaching supervision is intended to help teachers carry out more effective teaching to students (Julia et al., 2020). The research also found that the attitude of teachers who are not serious about teaching and the attitude of principals and headmasters who are not ready to carry out teaching supervision are obstacles that need to be overcome.

The results of previous research state that it is best to hold discussion sessions between supervisors and teachers to obtain input on the ongoing supervision process (Chugh et al., 2022; Muthanna & Alduais, 2021). Furthermore, through discussion, the teacher's weaknesses and strengths can be conveyed regarding the techniques, methods, approaches, and teaching tools used. The research results found that supervision practices with a clinical approach were less than satisfactory (Tiwari, 2022). In other research, it was found that school principals did not carry out the task of supervising teacher teaching and that the supervision carried out was more bureaucratic and autocratic which emphasized hierarchy (Eranıl & Barış, 2022). Research by Uy et al., (2023) states that 44% of teachers do not like the supervision carried out in the classroom by both the principal and his deputy. The results of the study found that 12.03% of primary school teachers are 5.88% of secondary school teachers disagreed with teaching observations. Teachers as the that the teaching supervision carried out by the principal only looks for teacher weaknesses. Supervision of the teaching and learning process fails to increase the honor and dignity of teachers and does not encourage teachers to be innovative and take initiative (Rozi et al., 2022). Ofei et al., (2020) reported that research on the effectiveness of clinical supervision as a method for improving achievement is inconclusive and does not provide a sufficient basis for relying on supervision to improve learning delivery.

In the background of the development of teaching supervision, Gümüş et al., (2020) states that instructional supervision is initiated by a group of administrators, principals, teachers, principals, and instructional leaders who wish to improve teaching practices. More scrutiny on scientific management. In its supervision, it uses a democratic approach. Next, supervision begins to help teachers develop into thinking coaches who are always sensitive and skilled in interactive and cooperative approaches. At that time the supervisor acts as a coworker. Discoveries and innovations in the curriculum have forced supervisors to involve themselves in oversight not only of new programs but also in staff development activities. The impact of the definition of clinical supervision began to be felt in 2018 to 2022. Literature regarding clinical supervision was only discussed in 2018. In 2018-2022, through group teaching and various group approaches, teachers began to interact with each other and supervisors. First, asked to help analyze classroom practices, the curriculum used, and interpersonal

relationships. Finally, in 2018-2022, supervision will begin to focus on teaching development so that teachers can increase their professionalism (Gümüş et al., 2021). Sokal et al., (2020), as the father of clinical supervision, believes that for effective observation, data must be collected from teachers in the classroom to plan programs, procedures, and strategies to improve the teacher's teaching techniques. Biwer et al., (2020) define supervision as motivation to improve teaching. Supervision is a process where teachers are involved in teaching sessions to improve teaching and increase student applievement.

12: Impact of Supervision on the Teaching and Learning Process, according to Labrague et al., (2020), Learning supervision carried out by the principal or his deputy can increase educational effectiveness. This research also shows that schools that implement teaching supervision have a significant relationship with classroom management effectiveness. Atiah et al., (2020) found that supervision of classroom teaching by the principal can provide a lot of information that cannot be obtained in the administrative system. Schildkamp et al., (2020) believes that teaching supervision must be able to answer the following questions: 1) What happens in the classroom, 2) What do teachers and students do in the classroom, 3) What are the actual learning outcomes, 4) What should happen in the classroom if given comprehensive direction, educational foundations, knowledge about how students learn and understanding of the content of the subjects being taught, and 5) What is the meaning of learning/teaching events and activities for teachers, students, etc. These questions provide a broader concept of supervision. So the principal is responsible for monitoring the teaching and learning process in the classroom to ensure students receive quality teaching. Jan, (2020) research found that teaching supervision received little attention from school principals because a lot of time was spent carrying out school administration tasks. Sanusi et al., (2022) emphasized that teaching supervision carried out in schools can increase the level of teacher teaching development in addition to allowing teachers to make modifications to good and effective teaching practices. Apart from that, they also describe the practice of teaching supervision in schools as universal. Through effective supervision, teachers can improve their practices to help improve the level of teacher teaching in the classroom. Marey et al., (2020) states that formative supervision is the basis for teachers to improve teaching methods. The study also showed leaders felt teachers were unable to accept them as a referral source as teaching supervisors. Teachers prefer to refer to fellow teachers for guidance rather than the principal. Effective principals recognize the importance of supervision and encourage improvement in teaching. Because teacher teaching supervision focuses on the quality of teaching, teacher evaluation can be used as a catalyst for teacher and school progress. Supervision requires a lot of time to implement, but this activity is a valuable investment because it can help improve teacher teaching performance (Weller et al., 2020). Cruz-González et al., (2021) has highlighted the results of his research on 17 school principals who were said to have successfully played their role as teaching leaders. The things that are focused on include ensuring the quality of teacher teaching through training and service, observing teacher teaching, encouraging teachers to observe their colleagues in teaching, and holding discussions with teachers in dealing with teaching problems. School success relies heavily on supervision as the main function of a school. Supervision aims to compile activities to determine the effectiveness of the school, especially in the teaching and learning process. Effective supervision can help teachers improve the quality of their teaching (Mok & Staub, 2021). Supervision is a service to teachers for the advancement of teaching and indirectly students will receive benefits. The quality of teacher teaching has improved for students as a result of the effectiveness of teacher teaching. One of the assumptions in supervision is that without guidance and assistance, teachers have no opportunity to change (Ndukwe & Daniel, 2020). Pope et al., (2023) stated that 75% of teachers agree that supervision can improve the quality of teacher teaching. The results of this research also show that 82.5% of teachers agree that teaching supervision must pay attention to teaching techniques, questioning methods, induction tools, and two-way communication between teachers and students. Several effective supervision models can be adapted for supervision, namely the Intensive (clinical) Supervision Model and the Cooperative Supervision

Intensive Surveillance Model (Clinical). According to Rees et al., (2020), clinical supervision is rational and this practice is designed to improve teacher teaching in the classroom. Keinänen et al., (2023) stated that clinical supervision refers to face-to-face meetings with teachers to improve practice and increase teacher professionalism. Clinical supervision is about establishing a formative focus in supervision assessment and protecting relationships in the critical analysis of teaching (Coleman & Hyde, 2022). Rozi et al., (2022) stated that clinical sup 3 vision aims to increase teacher professionalism by emphasizing improving teaching practices in the classroom. Clinical supervision encourages teachers to learn and practice the art of teaching which involves obsequences obsequences observed interacting with students Carrero-Planells et al., (2021) proposed five stages in carrying out clinical supervision, namely pre-observation conference, teaching observation, analysis and strategy, postobservation conference, and post-observation analysis. The pre-observation stage is important for framing the observation results which are discussed and agreed upon between the supervisor and the teacher being supervised. Teachers should get a clear picture of how the supervision process is carried out. The second phase involves monitoring the actual teaching that occurs in the classroom. In this phase, observations are made of the teacher



who teaches, what is taught, and how the students react during teaching. At the end of the observation, the supervisor should leave the class in a way that does not disrupt classroom learning. The third stage aims to analyze the data and information collected so that it is more meaningful in planning the management strategy for the supervision conference that will be followed. The fourth stage is a post-observation conference which aims to inform the observed teacher that the supervisor pays attention to what happens in the classroom while the teacher is teaching to encourage the teacher to improve his teaching methods. Finally, the fifth stage includes post-observation analysis to identify the strengths and weaknesses of supervision and modify supervision to make it more useful for all teachers. Supervisory practices are carefully studied for improvement on the part of administrators.

Cooperative Monitoring Model. Schott et al., (2020) uses the term cooperative supervision as a process of encouraging the development of teacher professionalism through systematic collaboration with colleagues. Teachers can form groups consisting of two or three members voluntarily for the sake of developing teacher professionalism. Activities carried out in groups include observing each other, discussing the results of observations, and sharing information about developing teacher professionalism. The cooperative approach involves mentoring more experienced teachers toward new teachers. The main assumption of the cooperative approach is that the accompanying teacher is more knowledgeable and skilled in the areas of teaching, curriculum, and classroom management. Therefore they can help new teachers adapt and master new fields. Tise et al., (2023) stated that the relationship between mentor and mentee will reach a mature level if there is a reciprocal relationship. According to Tang & Liao, (2021), the goal of the cooperative approach is to solve problems through joint decision-making. Supervision encourages teachers to develop their ideas to maximize their sense of ownership. Discussions should be carried out so that the resolution of the problem can be agreed upon by both parties. In this way, planned supervision can provide a high commitment to teaching and can help teachers overcome fear. This ensures teachers improve the quality of teaching through quality supervision. This shift can increase teacher experience in helping to improve the quality of teaching (Burbules et al., 2020). Therefore, the quality of supervision is very important in classroom teaching. Quality supervision can only be perfected by school principals who master the science of effective supervision. Marey et al., (2020) in their research stated that elements such as knowledge, interpersonal skills, and technical skills need to be present in a supervisor to determine the effectiveness of the supervision process carried out in schools. Roberts & David, (2020) shows that the effect of supervision, on the relationship between supervisors and teachers is better and positive. He also stated that the maximum impact in supervision activities will be achieved through an attitude of compassion, honesty, and a relationship of mutual trust between the principal/principal and the teachers at the school.

Research must be carried out because there is a gap between theory, expectations, and reality. The theory states that the supervision carried out by the principal of the teacher will have an impact on the learning process becoming more effective, with the hope that the learning process carried out by the teacher will have an impact on increasing understanding and increasing students' knowledge. However, in reality, the supervision carried out by the school principal is not yet optimal and the supervision carried out is only limited to fulfilling reports. These supervision models conflict with each other, weak teaching and supervision of teacher performance result in the clinical model not being maximized properly. In theory, it is also said that having clinical can help teachers and supervisors, but the reality in the field is that there are still many teachers who are not happy with the clinical model, and school principals in the downk in administration and not supervision through the clinical model. So it is urgent to research to analyze the influence of clinical supervision on teacher performance processes in planning, learning aids, learning delivery and development tools, questioning techniques, student involvement, reinforcement, training, student assignments, assignments, ways of closing teaching, and analyzing teacher methods, in classroom management.

2. METHOD

The method in this research is a quantitative method (Johnson et al., 2020). The research subjects were 33 secondary school teachers from the city of Klaten. The indicators in this research measure teacher performance in the learning process using 10 measuring tools as research indicators, namely writing a Learning Implementation Plan, induction series, implementation, learning development, questioning techniques, student involvement, reinforcement, student practice and assignments, and practice checks. and tasks., closing lessons, and classroom management.

The researcher's data collection technique was by observing 33 teachers in four weeks. The research recorded all the advantages and disadvantages during the teaching and learning process sessions. The teaching and learning process observation instrument is taken from the Standard Assurance Instrument set by the School Inspectorate and is used by all schools to measure the teaching and learning process which is the 9th element in managing educational programs. This instrument measures 10 indicators through 59 items. Each item is prepared based on indicators and developed. The instrument is scored from 0 to 4. The scoring is by the Indonesian education quality



standard instrument guidelines, namely 0 (none), 1 (very little), 2 (a small part), 3 (some), and 4 (most). The following are the indicators and instruments used.

Table 1. Research Instrument

Items

Indicator 1 (Lesson Design)

- The teacher provides a lesson plan taking into account the student's abilities and abilities
- The teacher provides a lesson plan that contains at least: learning objectives/outcomes (expressed in the form of treatment, can be measured and includes the knowledge and skills that need to be mastered)
- The teacher provides a lesson plan that contains at least: activities (how to achieve the objective, in accordance with student abilities and time allocation)
- The teacher provides a lesson plan that contains at least: making a written self-assessment (on the achievement of teaching and learning objectives to identify students' weaknesses and strengths and design and make improvements)

Items

Indicator 2 (Induction Set)

- Teachers carry out induction sets that attract attention and stimulate pupils' interest
- The teacher carries out an induction set that leads to students' mental readiness (as related to current 2 lessons, current issues and the environment)

Items

Indicator 3 (Lesson Delivery/Development)

- Explains concepts from easy to complex
- 2 Linking teaching to students' daily lives
- Use appropriate language (language and terms).
- Carrying out activities that demonstrate teaching improvement and development
- Using time optimally
- Use appropriate teaching and learning materials
- Using effective teaching and learning materials
- Using student-centered approaches and methods
- Carry out activities according to the student's ability level
- Carry out activities that take into account various intelligences (verbal-linguistic, musical, logicalmathematical, interpersonal, intrapersonal, visual-spatial, kinesthetic, naturalistic)
- Carry out activities that involve various senses
- Encourage students to acquire knowledge and skills independently without relying on teacher 12 direction
- Apply thinking skills
- Implementing an integration approach across the curriculum (language, environment, science and 14 technology, pure values, patriotism, unity, identity, health, family)
- 15 Flexible according to the situation
- 16 Continuous assessment in teaching and learning

Items

Indicator 4 (Teacher questioning technique)

- Posing questions according to various cognitive levels (for example based on Bloom's taxonomy) 1
- 2 Arrange the questions from easy to difficult
- Asking questions based on and reaching
- Ask questions that have clear meaning and can be understood
- 5 Distribute questions to the whole class
- Give students time to think 6
- Pry answers from students
- 8 Shift the direction of the question to other students
- Give appropriate responses to student answers

Items

Indicator 5 (Pupil Involvement)

- Bring necessary equipment or materials (if applicable) 1
- Make initial inventory
- Take notes from the teacher's teachings (if applicable
- Express questions/opinions spontaneously
- Make spontaneous referrals (if applicable)
- Carrying out activities designed by the teacher
- Interact actively with the teacher, other students and materials
- 8 Give appropriate responses to questions and exercises
- Demonstrate the ability to carry out group work activities (if applicable)

Items

Indicator 6 (Affirmation)

Give verbal praise or gestures for good behavior





Give appropriate warnings to students' negative treatment

Items Indicator 7 (Exercises and Assignments)

- 1 Follow the student's abilities and abilities
- 2 Various types
- 3 Relating to the topic being studied
- 4 Emphasizes procedures and directions in making assignments

Items Indicator 8 (Examination of Student Practice and Assignments)

- 1 Demonstrate student mistakes
- 2 Check the duration and frequency of the customer
- 3 Provide constructive reviews
- 4 Reward good work results
- 5 Ensure students make corrections

Items Indicator 9 (Closing)

- Make a cognitive closure (the formulation is carried out either by the teacher/student or makes an assessment orally/in writing)
- 2 Creates social closure (a reality that calms students' emotions and prepares them for the lesson to come

Items Indicator 10 (Class Management)

- Ensure that there is an atmosphere that is conducive to teaching and learning (for example, lecture rooms are clean, the packaging and arrangement of furniture is appropriate to the activity)
- 2 Ensure student attendance for learning
- 3 Ensure students' willingness to learn
- 4 Realize and utilize subject angles
- 5 Ensure class rules are followed

Clinical Supervision Procedures. Discussions were held between supervisors and teachers immediately after the pre-observation was completed as proposed in the cooperative observation model (Soro, 2023). The aim is to ensure that the necessary information can be discussed together while remaining fresh in their minds. The focus of the discussion concerns indicators that have been mutually agreed upon, such as the strengths and weaknesses of teacher teaching. Post-observation was carried out after four weeks of pre-observation 10 ceçay & Dikilitas, 2022). This research has a hypothesis using 10 hypotheses to answer research questions. H1: There is no significant influence of clinical supervision on teacher teaching performance, H2: There is not gnificant influence of clinical supervision on teacher teaching performance based on the induction series, H3: There is no significant if thence of clinical supervision on teacher teaching performance based on learning delivery and development, H4: There is no simplicant influence of clinical supervision on teachers' teaching performance based on questioning techniques, H5: There is no still ficant influence of clinical supervision on teachers' teaching performance based on student involvement, H6: There is no significant influzion of clinical supervision on teachers' teaching performance based on reinforcement, H7: There is no significant effect of clinical sugarvision on teacher teaching performance based on training and student assignments, H8: There is no significant effect of clinical supervision or 2 eacher teaching performance based on training exams and student assignments, H9: There is no significant effect of 2 linical supervision on performance teacher teaching based on teaching closure, and H10: There is no significant effect of clinical supervision on teacher teaching performance based on classroom management.

Data analysis technique. The data obtained were analy 2 d using SPSS statistical software version 25.0 (Necki et al., 2020). This study used a paired t-test to determine the effect of clinical supervision on teacher teaching in the classroom. Apart from the set, effect size (d) is also used to explain the results of this research. Anvari & Lakens, (2021) suggested three effect sizes, namely small effect size (d = 0.20), medium effect size (d = 0.50), and large effect size (d = 0.80).

3. RESULT AND DISCUSSION

Results

The research results show that the influence of Clinical Supervision on Teacher Teaching Performance is $\frac{1}{2}$ ifficant. Table 2 shows that the results of the paired samples t-test are statistically significant (t (33) = -3.70, p < 0.05, d = 0.86) and the effect size is large. This shows that the post-observation average (M = 88.24, SP = 7.19) is higher than the pre-observation average (M = 80.19, SP = 11.45) of teacher teaching as a whole.

 Table 2. Pret-Observation T-Test Statistics On Post-Observation Teacher Performance

T-test statistics	N	Min	SP	dk	T	P
Pre-perception	33	80.19	11.45	32	-3.70	*00.0
Post-absorption	33	88.24	7.19			



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* p < 0.11(2-tailed)

The results of the paired samples t-test are statistically significant (t (33) = -2.66, p < 0.05, d = 0.60) and the effect size is moderate for H1. This shows that the mean (M = 3.61, SP = 0.34) after observation is higher compared to the mean (M = 3.33, SP = 0.60) before observing RPH writing among teachers (Table 3). The results of the induction set t-test (t (33) = -2.54, p < 0.05, d = 0.62) are statistically significant and the effect size is moderate for H2. The mean (M = 3.58, SP = 0.53) in the post-onservation induction set was higher than the mean (M = 3.19, SP = 0.73) for the teachers before the observation. The results of the delivery and development t-test were statistically significant (t (33) = -2.90, p < 0.05, d = 0.71) and the size of the effect was medium for H3. This shows that the mean (M = 3.60, SP = 0.58) of post-observation delivery and development is higher compared to the mean (M = 3.23, SP = 0.46) befor 4 eacher observation. The t-test results for the questioning technique are statistically significant (t (33) = -3.48, p < 0.05, d = 0.85) and the effect size of H4 is large. This shows that the mean (M = 3.68, SP = 0.32) of post-1 servation questioning techniques is higher than the mean (M = 3.33, SP = 0.49) of teathers before observation. The results of the paired samples t-test are statistically significant (t (33) = -2.59, p < 0.05, d = 0.56) and the effect size is moderate for H5. The mean (M = 3.43, SP = 0.43) of student engagement after observation was higher than the mean (M = 3.14, SP = 0.61) before observation when the teacher was teaching. The t-test results for student reinforcement were statistically significant (t (33) = -2.60, p < 0.05, d = 0.64) and the effect size was medium for H6. This shows that the mean (M = 3.63, SP = 0.45) of student reinforcement after observation when the tacher taught was higher compared to the mean (M = 3.28, SP = 0.64) after observation when the teacher taught. The results of the student training t-test were statistically significant (t (33) = -3.78, p < 0.05, d = 0.77) and the effect size was large for H7. This shows that the mean (M = 3.50, SP =0.36) of post-observation student training is higher compared to the mean (M = 3.16, SP = 0.51) of pre-observation teachers. The results of the t-test to examine student training were statistically significant (t (33) = -4.38, p < 0.05, d = 0.71) and the effect size was moderate for H8. The mean (M = 3.34, SP = 0.54) of students' post-observation training tests was higher than the mean $(M = 2.93, \boxed{M} = 0.62)$ of teachers before observation. The closing t-test results were statistically significant (t (33) = -2.60, p < 0.05, d = 0.62) and the effect size was moderate for H9. This shows that the mean (M = 3.64, SP = 0.44) after the closing observation is higher compared to the mean (M = 3.64, SP = 0.44)= 3.32, SP = 0.60) before the teacher observation. The results of the t-test for classroom management are statistically significant (t (33) = -2.51, p < 0.05, d = 0.55) and the effect size is medium for H10. This research shows that the mean (M = 3.65, SP = 0.95) of classroom management after observation is higher than the mean (M = 3.22, SP = 0.61) before teacher observation. Overall research findings indicate that clinical supervision impacts teachers' overall teaching percentage. The highest increase in the percentage of teachers who got a score of 4 was in the teacher's questioning technique in item 3 (presenting focused and divergent questions) and Indicator 7 (student practice and assignments) in item 3 (related to the topic being studied).) and number 4 (emphasizing procedures and instructions).

Table 3. Paired Sample T-Test Results on 10 Pre-Observation Learning Indicators with Post-Observation Performance

Hypothesis	Application	N	Minimum	SP	dk	t	р
H1	Pre	33	3.33	0.60	32	-2.66	0.01*
	Post	33	3.61	0.34	32		0.02*
H2	Pre	33	3.19	0.72	32	-2.54	0.01*
	Post	33	3.58	0.53	32	-2.34	0.032*
Н3	Pre	33	3.23	0.46	32	-2.90	0.02*
	Post	33	3.60	0.58	32	-2.90	0.01*
H4	Pre	33	3.33	0.49	32	-3.48	*00.0
	Post	33	3.68	0.32	32	-3.46	*00.0
Н5	Pre	33	3.14	0.61	32	-2.59	0.01*
	Post	33	3.43	0.43	32	-2.39	0.02*
Н6	Pre	33	3.28	0.64	32	-2.60	0.01*
	Post	33	3.63	0.45	32	-2.00	0.01*
Н7	Pre	33	3.16	0.51	32	-3.78	0.02*
	Post	33	3.50	0.36	32	-3.78	0.01*
Н8	Pre	33	2.93	0.62	32	-4.38	0.032*
	Post	33	2.93	0.54	32	-4.56	0.02*
Н9	Pre	33	3.32	0.60	32	2.60	0.01*
	Post	33	3.64	0.44	32	-2.60	*00.0
H10	Pre	33	3.22	0.61	32	2.51	*00.0
	Post	33	3.65	0.95	32	-2.51	0.01*

Discussion

The findings of this research show that there is an influence of clinical supervision on the process of teacher performance in teaching. This is in line with the results of research by Shen et al., (2020) which states that teaching supervision carried out in schools can increase the level of teaching development. This supervision effect allows teachers to modify good and effective teaching practices. The findings of this research also show the influence of clinical supervision on classroom management by teachers in line with findings that state that schools that implement teaching supervision can increase the effectiveness of classroom management (Mok & Staub, 2021). Formative supervision can help teachers improve teaching methods and subsequently improve teaching performance (Granberg et al., 2021). This is also in line with research that states that supervision can help improve teacher teaching performance (Bjørndal 1)20). Moè & Katz, (2020) in his research stated that most teachers view supervision from a positive perspective. The findings of this research provide implications for supervision to help teachers make personal changes in teaching. Observed teachers also indicated that supervision helped increase level of teacher professionalism. Research by van den Bogerd et al., (2020) found that teaching supervision can improve the quality of teaching and learning in the classroom. This research also shows several things that teachers need to pay attention to when using subject corners and also ensure students bring the necessary equipment or materials.

The findings in this research are in line with Chugh et al., (2022) statement which states that it is best to hold discussion sessions between supervisors and teachers to get feedback on the ongoing supervision process. The teacher's weaknesses and strengths in terms of the techniques, methods, approaches, and teaching tools used can be conveyed through discussion. The results of this study contradict the research findings of Collard et al., (2020) which found that supervision practices using a clinical approach were not effective. This is also not in line with Stahlschmidt & Stephen, (2020) research findings where the final process of observation was not carried out perfectly by the supervisor. There is a lot of literature that discusses the influence of teaching supervision in schools on the level of teacher teaching performance and this research finds that teaching supervision is still needed because teachers have not yet reached the level of perfection in teaching such as dynamic, knowledgeable and skilled teachers (van Kessel et al., 2020). Therefore, without guidance and assistance, teachers cannot change and improve the quality of teaching in line with the development of education in the world. The main aim of supervision activities is to improve the quality of teaching (Ghosn-Chelala, 2020). The findings of this research indicate that clinical supervision activities can improve the quality of teacher teaching where the post-test average is higher than the pre-test average for all 10 teaching indicators and overall.

The implication of this research is to provide information that providing clinics in discussion groups between teachers can improve the learning implementation process. This has been practiced in this research with 33 teachers in junior high schools. The teachers are very enthusiastic in designing learning, materials and assessments as well as compiling assessment and evaluation rubrics that teachers use during implementation and after completion of the learning implementation. This research also informs that clinics created for teachers are easier for the principal to control as the school leader. Principals can easily check teacher professionalism and more easily guide teachers during clinicals.

The limitation of this research is that it does not use students as subjects. Research is limited to analyzing teacher performance and supervision carried out by school principals on teacher performance in the learning process. In this research, data was not taken from students, so this research could be subjective. Suggestions, the same research should be carried out in the future by increasing the number of samples and involving students as subjects in further research. This research also recommends that further research take primary data using various data collection techniques so that subsequent findings can become recommendations for the government to implement good, regular, and clinical supervision for teachers who need assistance.

4. CONCLUSION

This research concludes that clinical supervision has a positive effect on teachers' learning implementation plans, induction sets, learning delivery and development, questioning techniques, student involvement, reinforcement, student training and assignments, inspection of training and assignments to be given, teaching closure, and classroom management. However, there are still many other questions that need to be considered in the Indicators that have an impact on teachers' overall teaching performance, especially the background and training received by teachers as well as teachers' perceptions of teaching and learning practices. The measuring instrument used in this research is a teaching and learning observation instrument taken from the Standard Assurance Instrument prepared by the school. The assessment of each item is very subjective so the researcher suggests that a more objective measuring instrument be used. Researchers also suggest that the research

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conducted should cover more schools and involve a larger number of teachers and students should also be involved in data collection.

5. REFERENCES

- Ahmad, S. T., Watrianthos, R., Samala, A. D., Muskhir, M., & Dogara, G. (2023). Project-based Learning in Vocational Education: A Bibliometric Approach. International Journal of Modern Education and Computer Science, 15(4), 43–56. https://doi.org/10.5815/ijmecs.2023.04.04
- Anvari, F., & Lakens, D. (2021). Using anchor-based methods to determine the smallest effect size of interest. of Experimental Social Psychology, 96(December 2020). https://doi.org/10.1016/j.jesp.2021.104159
- Atiah, N., Fitria, H., & Destiniar, D. (2020). Effect of Principal's Coaching and Supervision toward Teacher's Performance. 88-93. International Journal of Educational Review. 3(1). https://doi.org/10.33369/ijer.v3i1.12179
- Biwer, F., de Bruin, A. B. H., Schreurs, S., & oude Egbrink, M. G. A. (2020). Future Steps in Teaching Desirably Difficult Learning Strategies: Reflections from the Study Smart Program. Journal of Applied Research in Memory and Cognition, 9(4), 439-446. https://doi.org/10.1016/j.jarmac.2020.07.006
- Bjørndal, C. R. P. (2020). Student teachers 'responses to critical mentor feedback: A study of face-saving strategies in teaching placements. Teaching and Teacher Education, 91(May 2020), 103047.1-12. https://doi.org/10.1016/j.tate.2020.103047
- Bolton-King, R. S. (2022). Student mentoring to enhance graduates' employability potential. Science and Justice, 62(6), 785–794. https://doi.org/10.1016/j.scijus.2022.04.010
- Burbules, N. C., Fan, G., & Repp, P. (2020). Geography and Sustainability Five trends of education and technology sustainable future. 93-97 a Geography and Sustainability, I(2),https://doi.org/10.1016/j.geosus.2020.05.001
- Carrero-Planells, A., Pol-Castañeda, S., Alamillos-Guardiola, M. C., Prieto-Alomar, A., Tomás-Sánchez, M., & Moreno-Mulet, C. (2021). Students and teachers' satisfaction and perspectives on high-fidelity simulation for learning fundamental nursing procedures: A mixed-method study. Nurse Education Today, 104(2), 1-6. https://doi.org/10.1016/j.nedt.2021.104981
- Chaharbashloo, H., Gholami, K., Aliasgari, M., Talebzadeh, H., & Mousapour, N. (2020). Analytical reflection on teachers' practical knowledge: A case study of exemplary teachers in an educational reform context. Teaching and Teacher Education, 87(2), 102931.1-15. https://doi.org/10.1016/j.tate.2019.102931
- Chugh, R., Macht, S., & Harreveld, B. (2022). Supervisory feedback to postgraduate research students: a literature Assessment and Evaluation inHigher Education, https://doi.org/10.1080/02602938.2021.1955241
- Coleman, G., & Hyde, E. (2022). Is there a role for professional supervision in supporting the professional and personal wellbeing of the sonographic workforce? A literature review. Radiography, 28(4), 991-998. https://doi.org/10.1016/j.radi.2022.07.008
- Collard, S. S., Scammell, J., & Tee, S. (2020). Closing the gap on nurse retention: A scoping review of implications Education Today, 84(October 2019), for undergraduate education. Nurse https://doi.org/10.1016/j.nedt.2019.104253
- Cruz-González, C., Rodríguez, C. L., & Segovia, J. D. (2021). A systematic review of principals' leadership identity from 1993 to 2019. Educational Management Administration and Leadership, 49(1), 31-53. https://doi.org/10.1177/1741143219896053
- Early Childhood Research Quarterly. (1989). Early Childhood Research Quarterly, 4(4), 544. https://doi.org/10.1016/0885-2006(89)90009-4
- Eranıl, A., & Barış, A. (2022). An Analysis of the Education System in Turkey: Supervision Policies Between the Years 1980 – 2021. Journal of Educational Supervision, 5(3), 35–60. https://doi.org/10.31045/jes.5.3.2
- García-Lázaro, I., Conde-Jiménez, J., & Colás-Bravo, M. P. (2022). Integration and Management of Technologies Through Practicum Experiences: A Review in Preservice Teacher Education (2010-2020). Contemporary Educational Technology, 14(2), 1-9. https://doi.org/10.30935/cedtech/11540
- Ghosn-Chelala, M. (2020). Global citizenship education in conflict-affected settings: Implications of teachers' views and contextual challenges for the Lebanese case. Teaching and Teacher Education, 93(July 2020), 103078.1-11. https://doi.org/10.1016/j.tate.2020.103078
- Granberg, C., Palm, T., & Palmberg, B. (2021). A case study of a formative assessment practice and the effects on students' self-regulated learning. Studies in Educational Evaluation, 68(November 2020), 1-10. https://doi.org/10.1016/j.stueduc.2020.100955
- Gümüş, S., Bellibaş, M. Ş., Gümüş, E., & Hallinger, P. (2020). Science mapping research on educational leadership

- and management in Turkey: a bibliometric review of international publications. School Leadership and Management, 40(1), 23–44. https://doi.org/10.1080/13632434.2019.1578737
- Gümüş, S., Hallinger, P., Cansoy, R., & Bellibaş, M. Ş. (2021). Instructional leadership in a centralized and competitive educational system: a qualitative meta-synthesis of research from Turkey. *Journal of Educational Administration*, 59(6), 702–720. https://doi.org/10.1108/JEA-04-2021-0073
- Husamah, H., Suwono, H., Nur, H., & Dharmawan, A. (2022). Environmental education research in Indonesian Scopus indexed journal: A systematic literature review. *JPBI (Jurnal Pendidikan Biologi Indonesia*), 8(2), 105–120. https://doi.org/10.22219/jpbi.v8i2.21041
- İnceçay, V., & Dikilitaş, K. (2022). Online peer observation: Reflections on a process-based job-embedded professional development activity through video recordings. *Teaching and Teacher Education*, 120(2), 103901.1-11. https://doi.org/10.1016/j.tate.2022.103901
- Jan, A. (2020). A phenomenological study of synchronous teaching during COVID-19: A case of an international school in Malaysia. Social Sciences and Humanities Open, 2(1), 100084.1-9. https://doi.org/10.1016/j.ssaho.2020.100084
- Johnson, J. L., Adkins, D., & Chauvin, S. (2020). A review of the quality indicators of rigor in qualitative research. American Journal of Pharmaceutical Education, 84(1), 138–146. https://doi.org/10.5688/ajpe7120
- Josa, I., & Aguado, A. (2021). Social sciences and humanities in the education of civil engineers: Current status and proposal of guidelines. *Journal of Cleaner Production*, 311(February 2020), 127489.1-16. https://doi.org/10.1016/j.jclepro.2021.127489
- Julia, J., Supriatna, E., Isrokatun, I., Aisyah, I., Hakim, A., & Odebode, A. A. (2020). Moral education (2010-2019): A bibliometric study (Part 2). Universal Journal of Educational Research, 8(7), 2954–2968. https://doi.org/10.13189/ujer.2020.080724
- Keinänen, A. L., Lähdesmäki, R., Juntunen, J., Tuomikoski, A. M., Kääriäinen, M., & Mikkonen, K. (2023). Effectiveness of mentoring education on health care professionals' mentoring competence: A systematic review. Nurse Education Today, 121(January), 1-10. https://doi.org/10.1016/j.nedt.2023.105709
- Kim, S., Jeong, H., Cho, H., & Yu, J. (2023). Extracurricular activities in medical education: an integrative literature review. BMC Medical Education, 23(1), 1–11. https://doi.org/10.1186/s12909-023-04245-w
- Labrague, L. J., McEnroe-Petitte, D. M., D'Souza, M. S., Hammad, K. S., & Hayudini, J. N. A. (2020). Nursing faculty teaching characteristics as perceived by nursing students: an integrative review. *Scandinavian Journal* of Caring Sciences, 34(1), 23–33. https://doi.org/10.1111/scs.12711
- Luca, A., Giorgino, R., Gesualdo, L., Peretti, G. M., Belkhou, A., Banfi, G., & Grasso, G. (2020). Innovative Educational Pathways in Spine Surgery: Advanced Virtual Reality–Based Training. World Neurosurgery, 140, 674–680. https://doi.org/10.1016/j.wneu.2020.04.102
- Marey, R., Hesham, G., Magdd, A., & Toprak, M. (2020). Re-conceptualizing teacher evaluation and supervision in the light of educational reforms in Egypt. Social Sciences and Humanities Open, 2(1), 100081.1-8. https://doi.org/10.1016/j.ssaho.2020.100081
- Mishra, L., Gupta, T., & Shree, A. (2020). Online teaching-learning in higher education during lockdown period of COVID-19 pandemic. *International Journal of Educational Research Open*, 1(September), 100012.1-8. https://doi.org/10.1016/j.ijedro.2020.100012
- Moè, A., & Katz, I. (2020). Self-compassionate teachers are more autonomy supportive and structuring whereas self-derogating teachers are more controlling and chaotic: The mediating role of need satisfaction and burnout. *Teaching and Teacher Education*, 96(1), 1-9. https://doi.org/10.1016/j.tate.2020.103173
- Mok, S. Y., & Staub, F. C. (2021). Does coaching, mentoring, and supervision matter for pre-service teachers' planning skills and clarity of instruction? A meta-analysis of (quasi-)experimental studies. *Teaching and Teacher Education*, 107(2), 103484.1-14. https://doi.org/10.1016/j.tate.2021.103484
- Muthanna, A., & Alduais, A. (2021). A Thematic Review on Research Integrity and Research Supervision: Relationships, Crises and Critical Messages. *Journal of Academic Ethics*, 19(1), 95–113. https://doi.org/10.1007/s10805-020-09368-z
- Ndukwe, I. G., & Daniel, B. K. (2020). Teaching analytics, value and tools for teacher data literacy: a systematic and tripartite approach. *International Journal of Educational Technology in Higher Education*, 17(1), 1-22. https://doi.org/10.1186/s41239-020-00201-6
- Necki, M., Antończyk, R., Pandel, A., Gawęda, M., Latos, M., Urlik, M., Stącel, T., Wajda-Pokrontka, M., Zawadzki, F., Przybyłowski, P., Zembala, M., & Ochman, M. (2020). Impact of Cold Ischemia Time on Frequency of Airway Complications Among Lung Transplant Recipients. *Transplantation Proceedings*, 52(7), 2160–2164. https://doi.org/10.1016/j.transproceed.2020.03.047
- Ofei, A. M. A., Paarima, Y., & Barnes, T. (2020). Exploring the management competencies of nurse managers in the Greater Accra Region, Ghana. *International Journal of Africa Nursing Sciences*, 13(September 2020), 100248.1-7. https://doi.org/10.1016/j.ijans.2020.100248
- Pope, K., Barclay, L., Dixon, K., & Kent, F. (2023). Models of pre-registration student supervision in allied health:

- a scoping review. Focus on Health Professional Education: A Multi-Professional Journal, 24(2), 27–62. https://doi.org/10.11157/fohpe.v24i2.559
- Rees, C. E., Lee, S. L., Huang, E., Denniston, C., Edouard, V., Pope, K., Sutton, K., Waller, S., Ward, B., & Palermo, C. (2020). Supervision training in healthcare: a realist synthesis. In *Advances in Health Sciences Education* (Vol. 25, Issue 3). Springer Netherlands. https://doi.org/10.1007/s10459-019-09937-x
- Roberts, J. A., & David, M. E. (2020). Boss phubbing, trust, job satisfaction and employee performance. Personality and Individual Differences, 155(November), 109702.1-8. https://doi.org/10.1016/j.paid.2019.109702
- Rozi, A., Musfiqon, M., & Prasetiya, B. (2022). The Effectiveness of Principals' Supervision in Improving Teacher Performance. KnE Social Sciences, 2022(2), 290–299. https://doi.org/10.18502/kss.v7i10.11231
- Sanusi, I. T., Oyelere, S. S., & Omidiora, J. O. (2022). Exploring teachers' preconceptions of teaching machine learning in high school: A preliminary insight from Africa. *Computers and Education Open*, 3(November 2021), 100072.1-10. https://doi.org/10.1016/j.caeo.2021.100072
- Schildkamp, K., van der Kleij, F. M., Heitink, M. C., Kippers, W. B., & Veldkamp, B. P. (2020). Formative assessment: A systematic review of critical teacher prerequisites for classroom practice. *International Journal of Educational Research*, 103(January), 101602.1-16. https://doi.org/10.1016/j.ijer.2020.101602
- Schott, C., van Roekel, H., & Tummers, L. G. (2020). Teacher leadership: A systematic review, methodological quality assessment and conceptual framework. *Educational Research Review*, 31(March), 100352.1-24. https://doi.org/10.1016/j.edurev.2020.100352
- Shen, J., Wu, H., Reeves, P., Zheng, Y., Ryan, L., & Anderson, D. (2020). The association between teacher leadership and student achievement: A meta-analysis. *Educational Research Review*, 31(October 2019), 100357.1-19. https://doi.org/10.1016/j.edurev.2020.100357
- Sokal, L., Trudel, L. E., & Babb, J. (2020). Canadian teachers' attitudes toward change, efficacy, and burnout during the COVID-19 pandemic. *International Journal of Educational Research Open*, 1(October), 100016.1-8. https://doi.org/10.1016/j.ijedro.2020.100016
- Soro, S. H. (2023). Academic Supervision as One of Education Policy Implementations (Case Study of the Islamic Religious Education Teacher Working Group in Sungai Tabuk District, Banjar Regency in the Perspective of General Education). Edukasi Islami: Jurnal Pendidikan Islam STAI Al Hidayah Bogor, 12(2), 1247–1262. https://doi.org/10.30868/ei.v12i02.3484
- Stahlschmidt, S., & Stephen, D. (2020). Comparison of Web of Science, Scopus and Dimensions databases. In Comparison of Web of Science, Scopus and Dimensions databases - KB Forschungspoolprojekt 2020 (Issue October 2020, pp. 1–29). https://bibliometrie.info/downloads/DZHW-Comparison-DIM-SCP-WOS.PDF
- Tang, M., & Liao, H. (2021). From conventional group decision making to large-scale group decision making: What are the challenges and how to meet them in big data era? A state-of-the-art survey. Omega (United Kingdom), 100(2), 102141.1-18. https://doi.org/10.1016/j.omega.2019.102141
- Tise, J. C., Hernandez, P. R., & Wesley Schultz, P. (2023). Mentoring underrepresented students for success: Self-regulated learning strategies as a critical link between mentor support and educational attainment.

 *Contemporary Educational Psychology, 75(October), 102233.1-14.

 https://doi.org/10.1016/j.cedpsych.2023.102233
- Tiwari, S. (2022). Supervised Machine Learning: A Brief Introduction. *Proceedings of the International Conference on Virtual Learning*, 17(5), 219–230. https://doi.org/10.58503/icvl-v17y202218
- Uy, F. T., Sasan, J. M., & Kilag, O. K. (2023). School Principal Administrative-Supervisory Leadership During the Pandemic: A Phenomenological Qualitative Study. *International Journal of Theory and Application in Elementary and Secondary School Education*, 5(1), 44–62. https://doi.org/10.31098/ijtaese.v5i1.1208
- van den Bogerd, N., Dijkstra, S. C., Tanja-Dijkstra, K., de Boer, M. R., Seidell, J. C., Koole, S. L., & Maas, J. (2020). Greening the classroom: Three field experiments on the effects of indoor nature on students' attention, well-being, and perceived environmental quality. *Building and Environment*, 171(June 2019), 106675.1-10. https://doi.org/10.1016/j.buildenv.2020.106675
- van Kessel, R., Steinhoff, P., Varga, O., Breznoščáková, D., Czabanowska, K., Brayne, C., Baron-Cohen, S., & Roman-Urrestarazu, A. (2020). Autism and education—Teacher policy in Europe: Policy mapping of Austria, Hungary, Slovakia and Czech Republic. Research in Developmental Disabilities, 105(February), 1–10. https://doi.org/10.1016/j.ridd.2020.103734
- Weller, J. M., Naik, V. N., & San Diego, R. J. (2020). Systematic review and narrative synthesis of competency-based medical education in anaesthesia. *British Journal of Anaesthesia*, 124(6), 748–760. https://doi.org/10.1016/j.bja.2019.10.025
- Xu, X., Jiang, X., Ma, C., Du, P., Li, X., Lv, S., Yu, L., Ni, Q., Chen, Y., Su, J., Lang, G., Li, Y., Zhao, H., Liu, J.,
 Xu, K., Ruan, L., Sheng, J., Qiu, Y., Wu, W., ... Li, L. (2020). A Deep Learning System to Screen Novel Coronavirus
 Disease
 2019
 Pneumonia.
 Engineering, 6(10), 1122–1129.

Tukiyo. (2024) Jumal Pedagogi dan Pembelajaran. Vol. 5(3) PP. 319-325	
https://doi.org/10.1016/j.eng.2020.04.010	
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