

ORIGINAL RESEARCH

Team learning and context; assessing the relationship between team-learning activities and contextual factors of team-learning environment and team-configurations

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Background: The prevalence of team-learning activities in nursing teams is influenced by contextual factors. Although team learning is important for nursing teams to perform, there is a paucity of research exploring the relationship between team-learning activities and contextual factors in nursing teams. The aim of this study was to study the relationship between team learning and contextual factors of the nursing team.

Methodology: Correlation and multiple regression analyses were used to study the relationship between team learning and five contextual variables. One contextual variable represented the overall environment for learning, and the other four contextual variables characterized basic configurations of organizational characteristics of nursing teams. An interrelation between the contextual variables was expected, so multiple regression models were tested for multicollinearity by regression commonality analysis to detect unique and common contributions of each independent variable.

Findings: Results of this study indicate that team-learning activities in nursing teams can be enhanced by contextual factors such as: (1) strengthening stimulation of the psychological safety, (2) openness, (3) shared goals, and (4) an open, external-oriented view. Multiple regressions yielded three models that explain 76%, 81%, and 83% of the variance in team learning. Commonality analyses showed the importance of interrelationships between the contextual factors.

Practical implications: Nurses undertake team-learning activities to process information needed to perform production-oriented and innovation-oriented tasks. Contextual variables affect the prevalence of team-learning activities in nursing teams. To enhance team learning in nursing teams, management and nurses should strengthen the facilitation of a development oriented team configuration and an intense team-learning environment.

Keywords: team learning, nursing, contextual factors

Introduction

As in other businesses, nursing teams are transforming from production-oriented teams towards ambidextrous teams; teams that simultaneously produce and innovate. 1-3 In origin, health care organizations set up nursing teams because of their expected influence on production-oriented processes.^{1,4} Nursing teams were established to produce nursing care to a specific population, such as a clinical nursing team on a surgery ward with the function to provide nursing care to patients that undergo surgery, or to provide education in nursing schools. Currently, nursing teams are also expected to adapt to changes by modifying themselves to keep pace with the continuous changes

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http://dx.doi.org/10.2147/NRR.\$23475

in their specific nursing care or in the structures in which they provide the care. 5-7 Teams in nursing are becoming ambidextrous, as they have to be productive and at the same time have to develop the nursing care or education they provide. Ambidextrous teams have the ability to simultaneously manage both production-oriented and development-oriented processes. This ambidextrous function causes a continuity of different team-learning activities in the nursing team. 5,6,9 In the workplace, nurses need information to execute the production-oriented as well as innovation-oriented tasks. To process needed information, nurses in teams can undertake team-learning activities like listening to each other's ideas, giving and taking feedback, or challenge one another for new viewpoints on specific matters in the nursing team.

Key points

- Nurses undertake team-learning activities to gather, process, and store the information that is needed to perform production-oriented and innovation-oriented tasks.
- Different contextual variables form a specific context for nursing teams that hinders or facilitates team learning.
- Team-learning activities in nursing teams can be enhanced by strengthening stimulation of the psychological safety, openness, shared goals, and an open, external-oriented view.

Team learning in ambidextrous teams was first mentioned by Kang and Snell, who suggested that production- and development-oriented processes in teams create productionoriented and development-oriented team learning processes.¹¹ Each team learning process has its own type of information, challenging nurses in teams to perform a variety of team-learning activities. In daily practice, nurses in teams simultaneously undertake team-learning activities that lead to production-oriented as well as development-oriented team learning. 11-14 Production-oriented team learning is triggered by information needed for the production processes the team stands for and results in actual production of nursing care or education. 11,15 Development-oriented team learning is rooted in the incongruence between current practice and professional or societal developments. Development-oriented team learning results in radical changes in the way the nursing teams provide their nursing care or nursing education. 12,16

The concepts of production- and development-oriented team learning are in unison with the theoretical concepts of first- and second-order learning in organizations, wherein productive and developmental learning are defined as adaptive and transformational learning. In nursing teams, team learning is identified in five factors that clustered team-learning activities; two factors are related to the gathering of information, one factor to the processing of information, and two factors are related to the storage and retrieval of information. The factors representing gathering information and storage of information differed on information used for production-oriented processes, or information used for developmental-oriented processes in the team which reflected today's ambidextrous character of nursing teams. In

Nursing teams exist in a variety of settings, such as university hospitals, mental health, community hospitals, or nursing schools. They differ in function, composition, and contextual factors as team-learning environments or the teams' culture. 17 Edmondson et al¹⁸ introduced psychological safety in the team as a contextual factor for team learning. Psychological safety was defined as the shared belief that the team is safe for interpersonal risk taking.¹⁸ Team-learning activities like exchanging feedback and listening to each other demand an open attitude and vulnerability from the nurses in the team. Therefore, psychological safety within the team is essential to exploit team-learning activities. 16,19,20 Van Wetten et al²⁰ constructed an overall contextual factor denoted "teamlearning environment." In addition to reflecting Edmondson et al's ¹⁸ earlier work on psychological safety, the team-learning environment concept included shared goals within the team, positive teamwork attitudes, and openness.²⁰

In addition to the team-learning environment in the team, team learning is supported by an external focus of the nursing team: tracking information and developments from outside the team and exploring their use within the team.^{7,16} Van Linge⁷ defined such nursing teams as teams with a development-oriented configuration. Based on the theoretical work of Scheinn,²¹ Van Linge delineated six team characteristics over two different dimensions (internal vs external focus and control vs flexibility) at the operational level, the level of espoused values, and the level of basic underlying assumptions of teams.^{7,21,22} Consequently, four basic team configurations for nursing teams were constructed: the regulation-oriented team configuration, which aims to formalize processes and standards; the goal-oriented team configuration, which is characterized by the formalization of goals and targets for results; the team-oriented team configuration, which highlights the importance of cooperation, consensus, and fine-tuning; and the development-oriented

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team configuration, which focuses on flexibility, external focus, creativity, and autonomy.⁷

The literature does not include a study addressing team learning and contextual factors in nursing teams. Therefore, the aim was to study the relationship between team learning, team-learning environment, and the configuration of teams' organizational characteristics in 79 nursing teams. The literature on team learning and contextual factors led us to the following hypotheses:

Hypothesis 1: The contextual variables, team-learning environment, team-oriented team configuration, and development-oriented team configuration, have a positive effect on the prevalence of team-learning activities in nursing teams.

Hypothesis 2: The contextual variables, goal-oriented team configuration and regulation-oriented team configuration, have a negative effect on the prevalence of team-learning activities in nursing teams.

Methods

In a cross-sectional design, self-reported data were gathered from individual members of nursing teams. Using a structured questionnaire that included team learning and context items, data were collected between November 2008 and March 2009. In meetings with the nursing teams, the researcher or a trained research nurse distributed the questionnaire packet after explaining the rationale for the study. To increase the response rate in 24-hour nursing teams, either the nurse researcher returned frequently, or a staff nurse was instructed to distribute the questionnaire to nurses not present at the meeting. Convenience sampling yielded data from 1111 individual responders, representing 79 nursing teams from mental health facilities (32%), general hospitals (27%), university hospitals (27%), and nursing education (14%) (Table 1). All teams originated in health care organizations and Bachelor of Nursing schools in the Netherlands and Belgium, and participated in an academic service partnership on learning and innovation in nursing.

Individual team members voluntarily cooperated to support the research project and signed an informed consent form. Included were responders who were members of a nursing team for 6 months or more. Excluded were students and untrained nursing staff. Included in the analysis were nursing teams wherein a minimum of 80% of the individual members were nurse educated. Excluded from analyses were individual cases with an item nonresponse rate greater than 10% (n = 1). Also, teams with a response rate of less than 60% of their members (n = 0) were excluded for analysis. Random missing data on items were replaced by the scale mean; 0.06% of the data were entered this way.²³ To ensure confidentiality, the returned questionnaires were coded before being entered into the database.²⁴ Approval from the research committee of the academic service partnership was obtained for the study.

Instruments

Team learning was measured using the revisited teamlearning scale for nursing teams. 10 This scale was developed in Dutch and contains 26 items on team-learning activities, divided over five subscales. The subscale pertaining to processing information contains nine items (Cronbach's alpha $[\alpha]$ 0.94) representing the actual interpretation and application of information in the team. Two subscales containing four items refer to the gathering (α 0.86), and four items refer to the storage or reuse (α 0.87) of information used for production-oriented processes in the nursing team. In addition, two subscales with five items refer to the gathering (α 0.86) and four items to the storage or reuse (α 0.83) of development-oriented information. Nurses used this instrument to indicate their perception of team-learning behaviors in their team. All 26 items were rated on a Likert scale ranging from 1 ("never") to 5 ("very often").

In this study, context was defined as the "team-learning environment" and the "team configuration".^{7,20} Team-learning environment was assessed using a twelve-item

Table I Descriptive statistics of the study population

(N = 79)	Total	Mental health	Community hospital	University hospital	Nursing education
C (0/)	100			•	
Setting (%)	100	32	27	27	14
Team size in N (M, SD)	17 (8.0)	13 (5.0)	14 (5.2)	15 (7.1)	23 (8.6)
Percentage bachelor-level nurses in team (M, SD)	50.6 (28.4)	42.2 (18.9)	40.4 (13.8)	63.8 (12.3)	81.1 (9.9)
Percentage diploma degree nurses in team (M, SD)	41.2 (18.3)	39.7 (5.0)	51.1 (5.0)	33.9 (5.0)	0
Percentage non-nurse educated team members (M, SD)	8.2 (11.5)	18.1 (6,2)	8.5 (10.3)	2.3 (3.8)	19 (4.9)
Percentage 24 hours nursing care teams (M, SD)	64 (14.6)	83 (6.2)	74 (18.5)	92 (4.8)	0
Age team members (M, SD)	50.6 (28.4)	42.2 (18.9)	20.4 (13.8)	83.8 (12.3)	61.1 (9.9)
Years of clinical experience team members (M, SD)	13.9 (5.2)	11.1 (3.8)	14.3 (6.0)	15.8 (4.0)	9.3 (2.5)

Abbreviations: M, mean; SD, standard deviation.

questionnaire (α 0.96) constructed by Van Wetten et al.²⁰ The questions represented were three items on shared goals, two items on positive attitude towards teamwork, four items on psychological safety, and two items on openness. Items were stated as "in my team, we share the same goals," or "in my team, I feel safe." All items were rated on a Likert scale ranging from 1 ("never") to 5 ("very often").

Team configuration was measured using the 24-item observed team configuration scale of Van Linge. This instrument represents the four basic team configurations as defined by Van Linge using four subscales with six items each (21,22): (1) the regulation-oriented team configuration (α 0.87), (2) the goal-oriented team configuration (α 0.76), (3) the team-oriented team configuration (α 0.91), and (4) the development-oriented team configuration (α 0.89). For example, an item in the regulation-oriented team configuration subscale was stated as "in my team, communication is based on protocols," and an item in the development-oriented team configuration subscale was stated as "in my team, communication is based on general principles and norms." All items were rated on a Likert scale ranging from 1 ("never") to 5 ("very often").

Data aggregation

Where the constructs of team learning and context were seen as shared team properties, data were aggregated from the individual to the team level. ²⁵ All 1111 individual cases were aggregated to 79 teams-level cases, by taking the sum of the mean scores of all items to compute the scales and subscales. ^{25,26} Within-group agreement and homogeneity of individual level data were tested before aggregation. ^{25,27} The intraclass correlation (ICC) analyses of the team learning and context variables used in this study resulted in ICC1 values between 0.11 and 0.19. Analyses of ICC2 resulted in values between 0.72 and 0.79. The results of these analyses legitimized the aggregation to team-level variables. ^{25,28}

Data analyses

Data analyses were completed using SPSS (v 16.0; SPSS Inc, Chicago, IL). Statistics were generated to summarize team-learning and team context variables. We used the subscales, as well as the overall 26-item scale of the revisited team-learning scale for nursing teams to explore relationships between team-learning and contextual variables using Pearson's product-moment correlation coefficient.²⁴ In congruence with Van Woerkom and Croon,²² all hypotheses concerning the relationship between team-learning and contextual variables

were tested simultaneously in a hierarchical multiple regression model with the overall 26-item scale of the revisited team-learning scale for nursing teams as a dependent variable. Due to the theoretical interrelation between all included variables, the regression models were tested for multicollinearity with the tolerance test and the variance inflation factor (VIF). Also, we added a regression commonality analysis to supply the unique and common contribution of each independent variable to the regression.²⁹ All tests were conducted at a 5% level of significance.

Results

Table 2 presents mean score (M), standard deviation (SD), percentage of maximum score, Pearson's product-moment correlation coefficient, and Cronbach's alpha (α) of the team learning and context variables. We detected high mean scores for the subscales storage and retrieval production-oriented information (M = 14.7; SD = 1.6) and for processing information (M = 29.0; SD = 3.1). In contrast, for the subscales related to gathering information, we detected low mean scores. All team learning variables showed moderate-to-strong interrelationships.

The correlation matrix in Table 2 shows moderate-tostrong relationships between all team-learning and context variables. Pearson's product-moment correlation coefficient varied between 0.324 and 0.870. The overall 26-item teamlearning scale was positively related with the developmentoriented configuration, the team-oriented configuration, and the team-learning environment. The team-learning environment was moderately positively related with the regulationoriented and goal-oriented configuration. The team-learning environment was positively related with the team-oriented and development-oriented team configuration. Only the gathering professional-oriented information subscale showed low correlation coefficients with all contextual factor variables in this study. Strong relationships were detected between team-learning environment, and the team-oriented and development-oriented configurations.

Univariate linear regression analyses with the 26-item team-learning scale team as the dependent variable showed associations with the development-oriented team configuration ($\beta = 0.759$; P = 0.001), the team oriented configuration ($\beta = 0.762$; P = 0.007) and the team learning environment ($\beta = 0.722$; P = 0.000).

Multiple regression analyses discriminated three models (Models 1, 2, and 3) that explain 75%, 81%, and 83%, respectively, of the variance in team learning. Model 1 (P = 0.001) explains 75% of the variance in team learning and includes

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Table 2 Mean score, standard deviation, percentage of maximum score, Pearson's product-moment correlation coefficient, and Cronbach's α of all team-learning and context variables

	I	2	3	4	5	6	7	8	9	10	П
I Team learning	0.93ª										
2 Gathering production-oriented information	0.727 ^b	0.87ª									
3 Gathering development-oriented information	0.593 ^b	0.685**	0.86ª								
4 Processing information	0.743 ^b	0.584**	0.484**	0.95^{a}							
5 Storage and retrieval of production-oriented information	0.716 ^b	0.588**	0.464**	0.680**	0.87ª						
6 Storage and retrieval of development-oriented information	0.723 ^b	0.592**	0.486**	0.679**	0.587**	0.83ª					
7 Team-learning environment	0.850**	0.637**	0.514**	0.886**	0.710**	0.557**	0.96ª				
8 Regulation-oriented configuration	0.658**	0.400**	0.346**	0.595**	0.557**	0.737**	0.499**	0.87ª			
9 Goal-oriented configuration	0.690**	0.537**	0.466**	0.596**	0.528**	0.694**	0.538**	0.737**	0.76ª		
10 Team-oriented configuration	0.852**	0.625**	0.449**	0.861**	0.769**	0.632**	0.891**	0.588**	0.630**	0.91ª	
II Development-oriented configuration	0.871**	0.704**	0.557**	0.829**	0.699**	0.698**	0.829**	0.675**	0.763**	0.892**	0.89ª
Possible scale score	26-130	5-30	4-20	9-45	4-20	4-20	11–55	6-30	6-30	6-30	6-30
Mean	81.2	10.7	14.6	29.0	14.7	12.1	40.5	19.4	19.1	21.6	19.8
SD	7.4	1.1	1.6	3.1	1.6	1.5	4.2	2.1	1.7	2.0	1.9
Minimum score	64. l	8.7	10.8	22.3	9.6	8.9	31.9	15.6	14.7	16.1	15.0
Maximum score	96.5	13.1	18.8	35.7	17.8	15.7	51.0	24.0	22.5	24.7	24.0

Notes: $^aCronbach's \; \alpha; \; ^bcorrected item total correlation; **P < 0.001.$

Abbreviation: SD, standard deviation.

only the variable 'development-oriented configuration' $(\beta = 0.871; P = 0.000)$ (Table 3).

Model 2 explains 81% (P = 0.005) of the variance in the 26-item team-learning scale and includes the development-oriented configuration (β = 0.533; P = 0.000) and team-learning environment (β = 0.408; P = 0.000) variables. Its tolerance score is 0.312, and its VIF score is 3.2. The commonality data in Table 4 indicate that the regression was influenced by interrelationships between the independent variables in this model: development-oriented configuration uniquely explained 10.9% of the regression effect (0.811). Team-learning environment explained 6.4% of the regression effect. Common variance between the two predictor variables made up the remainder of the regression effect. These findings indicate that 82.6% of the regression effect was explained by the combination of the development-oriented configuration and the team-learning environment.

Model 3 (P = 0.009) explains 83% of the variance in the 26-item team learning scale and contains the

development-oriented configuration ($\beta = 0.533$; P = 0.000), team-learning environment ($\beta = 0.408$; P = 0.000), and the regulation-oriented configuration ($\beta = 0.177$; P = 0.009) variables, which were independent variables. The commonality matrix in Table 5 shows the unique contribution to the regression effect ($\%R^2$) of the development-oriented configuration variable is 3.9%. The unique contribution to the $\%R^2$ of team-learning environment is 7.2%. The unique contribution to the $\%R^2$ of regulation-oriented configuration is 2%. The combination of the independent variables in this model explains 88.9% of the total regression effect ($\%R^2$) on team learning. The combination of the team-learning environment and development-oriented configuration accounts for 36.5% of the regression effect. The combination of the independent variables (team-learning environment, development-oriented configuration, and regulation-oriented configuration) accounts for 44.4% of the regression effect. The commonality tables for models 2 and 3 are available from the authors upon request.

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Table 3 Summary results and relationships between team-learning (dependent) and contextual factors using regression analyses

Univariate regression analyses	r ²	В	β	P				
Team-learning environment	0.722	2.302	0.850	0.000				
Regulation-oriented configuration	0.433	37.448	0.658	0.000				
Goal-oriented configuration	0.475	23.440	0.690	0.001				
Team-oriented configuration	0.762	13.196	0.852	0.007				
Development-oriented configuration	0.759	14.507	0.871	0.001				
Multiple regression analyses (stepwise)	Mult. R ²	В	β	P	Unique	Common	Total (r2)	% Mult. R ² (r _s ²)
Model I (Constant)		14.507		0.001				
Development-oriented		3.369	0.871	0.000				
configuration								
	0.759							
Model 2 (constant)		11.184		0.005				
Development-oriented configuration		2.062	0.533	0.000	0.089	0.670	0.759	0.936
Team-learning environment		0.720	0.408	0.000	0.052	0.670	0.722	0.890
	118.0							
Model 3 (constant)		8.281		0.037				
Development-oriented		1.489	0.533	0.000	0.0328	0.727	0.759	0.917
configuration								
Team-learning environment		0.781	0.408	0.000	0.0596	0.663	0.722	0.872
Regulation-oriented configuration		0.607	0.177	0.009	0.0167	0.416	0.433	0.523
	0.828							

Notes: Unique = x's unique effect; Common = Σx 's common effects; Total = Unique + Common; % of R^2 = Total/ R^2 .

Discussion

The aim of this study was to study the relationship between team learning and the team-learning environment and configuration of organization characteristics of the nursing team. Conventional organizational learning literature describes production-oriented and development-oriented team learning in teams, but reports an inability to exploit both learning processes simultaneously.^{11,30} Nonetheless, the results of this study underline modern theoretical insights on ambidexterity in nursing teams by revealing the simultaneous prevalence of production- and development-oriented team learning processes in nursing teams.^{8,10,11} The conventional theories on learning in teams and organizations were created in an era when teams acted in a stable context in which changes and

Table 4 Commonality matrix regression model 2

Variables	Coefficient	% of R ²
Unique to development-oriented	0.089	10.9
configuration		
Unique to team-learning environment	0.052	6.4
Common to development-oriented	0.670	82.6
configuration and team-learning		
environment		
Total	0.811	100

Notes: Coefficient = variables unique regression effect; % of R^2 = percent of total explained variance.

innovation were rare.³¹ In contrast, the current context of nursing is characterized by an overload of operational pressure and constantly changing practices.^{6,32} Nowadays, nursing teams are forced to exploit ambidextrous team learning processes.^{5,7,9}

The existence of ambidextrous team-learning processes related positively to a supportive context in which individual team

Table 5 Commonality matrix regression model 3

Variables	Coefficient	% of R ²
Unique to development-oriented	0.033	3.9
configuration		
Unique to team-learning environment	0.060	7.2
Unique to regulation-oriented	0.017	2.0
configuration		
Common to development-oriented	0.303	36.5
configuration and team-learning		
environment		
Common to development-oriented	0.056	6.7
configuration and regulation-oriented		
configuration		
Common to team-learning environment	-0.008	-0.9
and regulation-oriented configuration		
Common to development-oriented	0.368	44.4
configuration, team-learning environment,		
and regulation-oriented configuration		
Total	0.828	100.0

Notes: Coefficient = variables unique regression effect; % of R^2 = percent of total explained variance.

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members modify their behavior as well as question and modify the underlying values, assumptions, and policies that led to the behavior in the first place. 15,33 Regression effects in this study were not caused by the unique contribution of the independent contextual factors, but by the commonality of their concurrent prevalence. This underlines context as a multifactorial construct wherein the independent factors interrelate and create a specific configuration that hinders or facilitates team learning. 32,34 Van Wetten et al²⁰ and Edmondson³⁴ identified the team-learning environment as one of the most important contextual factors for team learning.^{20,34} Still, we expected a stronger impact from the team-learning environment. Team-learning environment items such as "safety" and "shared goals" facilitated team learning, but above all, the results in this study highlighted the commonality with other contextual factors such as the development-oriented and regulation-oriented team configuration relationships.

In accordance with Edmondson et al, 16 we detected relationships between team learning and a context with development-oriented organizational characteristics. 35,36 In this type of configuration, teams gather and process information on important developments outside the team and actively cross the boundaries of their own teams and professions.^{7,18} In line with the first hypothesis in this study, team learning was positively associated with the team-learning environment, the team-oriented configuration, and the development-oriented team configuration.^{7,16} In contrast to the second hypothesis, the results of this study also revealed a positive relationship between team learning and the regulation-oriented configuration on team learning. In accordance with the theoretical statements of Homan and Radstake 35 and Edmondson et al, 16 team learning in a nursing team requires regulation of the team learning processes, described as structured, regular team meetings with the goal of enhancing team learning. 16,35 An infrastructure in the nursing team often exists to handle production-oriented learning tasks. Examples include the handover, daily meetings, and team meetings where information about production is shared, processed, and stored in minutes or patient records. Infrastructures for handling development oriented learning tasks are rare in nursing teams. Up and coming examples are initiatives such as journal clubs and evidence-based nursing meetings in nursing teams. These meetings are structured, regular meetings designed to facilitate developmental learning in the nursing team. Initiatives such as journal clubs only succeed if there is a supportive infrastructure on the ward that is visible as planned, regular meetings dedicated to the journal club.³⁶

In conclusion, team learning in nursing teams was positively associated with a combination of contextual factors: team-learning environment, development-oriented team configuration, and regulation-oriented team configuration. Although the contextual factors can be divided into separate theoretical constructs, in reality, these factors exist in a configuration of independent contextual factors. This study has two important implications for practice. First, transferring the literature on team learning and ambidexterity to nursing teams reveals how nursing teams learn in modern times. Nurses in teams simultaneously undertake various team-learning activities to process the production-oriented and development-oriented information. Second, linking team learning and context revealed the insights in the commonality of contextual factors in nursing teams. This study underlines the importance of building a supportive context for team learning in nursing teams.

Limitations

In this study, we used questionnaires to capture responders' perceptions of both team-learning activities and contextual factors in their nursing teams. These perception based data could cause several limitations of this study when aggregated to team level data. 25,26 The effective sample size was limited to 79 nursing teams. In addition, measurements could be influenced by tendentious perceptions of individual responders, which would also affect the aggregated scores. Statistical procedures, however, showed satisfactory scores on the assumptions for aggregation.²⁵ Also, the concepts in this study were formulated clearly at the team level.⁷ In the regression analyses, team learning was analyzed with the overall 26-item scale, which limited information on the five different teamlearning factors. Consequently, analyses of the relationships between the five factors of team learning and the contextual factors were only provided as correlations.

Issues for further research

We suggest that future research uses more longitudinal designs to study team learning in relation to context over time. In addition, we suggest further research to include more in-depth analyses on the level of the five subscales of team learning. In terms of future research, one of the most interesting questions is the assumed relationship between ambidextrous team learning and the implementation of innovations in nursing teams. Therefore, we suggest studying the relationship between the five team learning factors and the implementation effect of different types of innovations in nursing teams.

Disclosure

The authors report no conflicts of interest in this work.

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