The Impact of the Training in "Body Language and Public Speaking" at the End of the Initial Training of Physical Education Teachers on the Disruptive Behavior of Students During the Work Life Preparation Traineeship.

The purpose of this article is to describe and analyze students' disruptive behavior and teacher trainee responses before and after a Body Language and to Speak in Public training module for school teachers at the end of initial training physical education teachers Delayed video scopic analysis was conducted using the "Disciplinary Incident Observation System(SOID)" Brunelle (1993). The data collected, it can be deduced that the courses directed by trainee students during work readiness internships show a high degree of disruption, since there is a rate of 1.3 and 1.01 DB per minute. The frequency of onset of disruptive behaviors (DB1 and DB2) is slightly lower in sessions facilitated by trainees who have been trained in "Body language and public speaking". Similarly, at the level of disruptive behaviors (DB3), the trainees who underwent the training realized a greater decrease in the frequency of appearance of these behaviors.

Keywords: Disruptive behaviors, Physical Education, students, training, Body language and public speaking.

Introduction

Changes in society are causing new tensions in the role of the teacher. Indeed, the teaching profession requires the development of professional skills of teachers that can only be acquired during vocational training (Perrenoud P et al.2001). Whereas, the design of vocational training programs is essentially based on solving problems related to the work of teachers (MEO, 2001).

However, the first opportunity to confront real problems related to the work of the teacher is during the course of preparation for professional life (Beckers J. et al 2007). In addition, many studies indicate that the majority of trainee teachers have communication difficulties with their students during PSE courses (Ria L. (2004)).

This reality is contradictory to what has been put forward by Provencher G. (1982) who states that "the teacher of the future will be the one who masters the mechanisms of communication between teacher and pupils and who will accept to be really involved in the pedagogical relation that a real communication obliges ". Similarly Richmond, V. P (2001) proves that "For teachers, having basic communication skills is not enough."

As a result, the initial training of PSE teachers has to focus on communication skills. In fact, the future teacher must take into account the natural use of the language and the capacity to adjust linguistically and physically to the various learning situations.

While during the initial training of PSE teachers at the Higher Institute of Sport and Physical Education of Tunis, the students underwent training in communication through the programming of a communication module that consists mainly of 3 languages: French, English and computer science. Hence the idea of developing the communication competence of PSE teachers through training programs in Body language and public speaking.

For this research, we have established whether the frequency of disturbing behavior episodes is affected by this training since all the behaviors manifested by the classroom teacher, whether conscious or unconscious, are worthy of messages and the students are sensitive to all these signs and clues: their classroom behavior is directly related to their perception of these messages (Moulin JF et al 2004).

Presentation of the Reference Framework

It is in this perspective that we drew on the work carried out by Jean-François Desbiens, S. Lanoue, Carlo Spallanzani, J.-S. Tourigny, Sylvain Turcotte, Martin Roy and Jean-Pierre Brunelle (2008). Desbiens (2008) set objectives for his approach: 1) draw a portrait of disruptive behavior during physical education classes taught by trainees; 2) compare the frequency and distribution of CPs according to the gender of the trainees; 3) compare the frequency and distribution of CPs according to the degree of advancement of the trainee in his training program (training course in preparation for professional life at the end of initial training (terminal class).

The proposed model nevertheless remains more general than speci fi c in its foundations strongly oriented by the approaches to problems of indiscipline encountered during learning the trade (Fortier and Desrosiers, 1991; Flavier, 2002), conflict situations (Flavier, 2002), the work on disruptive behavior (CP) concerns situations in regular classes rather than in physical education (Hodges Kulinna, Cuthran & Regualos, 2006) and the work of Brunelle (1993) on disruptive behavior (CP) detect by the disciplinary incident observation system (SOID).

The purpose of this study is to contribute to the improvement of the initial training in communication of Tunisian PSE teachers by proposing a complementary training program in 'Body Language and Public Speaking' articulated in the terminal internship and by measuring its impact on: (1) the frequency of CPs occurring during courses taught by student interns; (2) the types of reactions of student interns to the various disruptive behaviors of their students. More precisely, it will first be a question of describing the repercussions of this program on the practices of the trainees of the experimental (GrExp) and control (GrTém) groups between the start and the end of the work life preparation course.

Our Conjections

We believe that initial teacher training needs to be further emphasized on the dimensions of classroom teacher interactions (or in the field). Therefore, our main objective is to study the contributions of a training module in "Body Language" and to speak in public about the appropriation of the communication skills of trainees in EPS training during vocational training. This internship is the first opportunity to confront real problems of learning and teaching (DESBIENS J.-F et al 2014).

More specifically, our work consists in analyzing the variation of pupils 'disruptive behaviors and trainees' reactions to these behaviors during the internship of professional life.

Research Objective

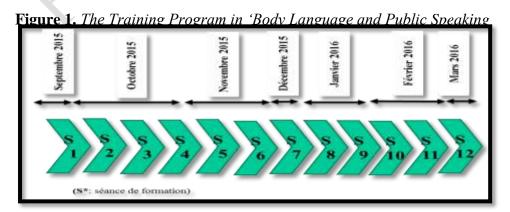
This research aims at elaborating and experimenting a training program of 'Body Language and Public Speaking' by trainee students at the end of initial training in physical education. The specific objective of the study was deals with the description of students disruptive behavior during the sessions led by the trainee teachers as well as about these reactions to these deviant behaviors of the students before and after the training (BLPP) in the preparation internship working life.

Methodology

This research consists in a quasi-experimental study for the fact that there is manipulation of a variable, namely the training program of « Body Language and Public Speaking » and that there is an observation of its effect on disruptive behavior in physical and sports education.

The Training Program in 'Body Language and Public Speaking'

The training program predicted 12 meetings lasting 2 hours, which makes 24 training hours. The training started in September and it ended in March.



Indeed, each meeting is associated to a thematic content which was presented, worked, dis-cussed and experimented. A training meeting implies a theoretical content followed by its implementation. By the 'active experience', the trainees are asked to plan, organize and supervise teaching sequences then, outside meetings, they were invited to implement the elements of content in their training environment. In order to have a more positive effect between the experience and the learnings, successes were systematically underlined while failures were discussed and analyzed, thus allowing to make all the aspects of the training program constructive.

Trainee teachers are invited to:

- 1. Work on oral expression techniques (breathing, voice, articulation, rhythm and repetition).
- . Improve nonverbal communication (territories, proximity, posture, gestures, facial and facial expressions).
- . Improve the perception of self.
- . Tame, regulate stress and control the speech.

Note: The former is a University professor at Higher Institute of Dramatic Arts in Tunis (I.S.A.D), communications specialist and expert in 'Body language and speaking in public.

The Participants

The sample formed by student volunteers consists of a first reference group (A) n = 10 (6 men, 4 women) and the second experimental group (B) n = 10 (5 men, 5 women).

All volunteers were in the third and final year of university education in PSE. They were launched in a practical training course in a thirty-week long secondary school environment, with four hours of practice for each of them, for a total of 120 hours of annual practice.

Each of the four hour episodes was a block of four 50 minute lessons each time around the same groups. All participants were previously informed about the aims of the study as well as the arrangements made to preserve their anonymity and the confidentiality of the data collected.

A total of 389 (Mature: 13.22 ± 0.35) high school students, of whom 243 (62.47%) were male and 146 (37.53%) female, participated in this study with an average of 34 students per class.

They were engaged in collective sports activities (either handball or basketball) since the project of their schools only uses collective sports with a view to facilitating their social integration.

Experimental Protocol: Didactic Observation

The ten trainee teachers in cohort B (experimental group) will be compared to the ten other trainee teachers in cohort A (control group) during a practical training course.

The observation was made at two moments: the first collection before training, the second within a week of the end of the training. These observations took place in the exercise sites of the practical pedagogy course. The data collection will cover 40 sessions of 50 minutes each, which were filmed before and after the training. It was done at two points during the 2015-2016 school year: the first collection at the beginning of the internship (September: before the beginning of the training) and the second at the end of the internship (March: after the end of the training).

The Instrument of Data Collection

The device uses the sound / image coupling in order to be able to relate the behaviors of the different actors and tell them of each one (instructions, private or public remarks, verbal reactions of the trainee and the students). We used two Sony model 4K Handcam cameras with built-in projector and a BoomTone DJ wireless microphone equipped with a transceiver (VHF 10HL F4 Micro HF) and a range of 100 meters to be able to intercept verbal interventions of the student's teacher.

All the trainee teachers were filmed at least during a session before the recording of the data, in order to accustom the protagonists of the study to the material used. In order to reduce the Hawthorne effect bias (eg, Adair et al., 1989) among teachers (behavior modification due to the presence of an observer), the experimenter introduced himself to the teacher as being a student conducting a survey on student motivation in EPS, without making any reference to the Pygmalion effect.

Data collection is done with the help of two camcorders and a wireless microphone. The two cameras are placed in diagonally opposite positions that cover the different angles of the whole area where the session takes place. The data collection will cover 40 sessions of 50 minutes each, which were filmed before and after the training.

The Grid of Observation

In order to analyze students' disruptive behaviors in physical education classes, we have used the works of Brunelle et al. (1993), the authors of the "Disciplinary Incidents Analysis System (SOID)". This system helps describe the disciplinary incidents whose disruptive behaviors (DB) occur during physical education classes based on the moment of occurrence. The observation grid shows 8 categories: 1) Students' DB; 2) intensity level of DB; 3) DB's moment of occurrence; 4) number of students involved; 5) effects of the DB on the proceeding of the session; 6) student teachers' types of reactions to DB; 7) effects of the student teachers' reactions on the DB; 8) DB's accessibility or inaccessibility level for student teachers

To analyze the disruptive behavior of students in physical education sessions, we used the version of SOID (BRUNELLE, J.(1993)). The Disciplinary Incident Observation System (SOID) is an observation system with predetermined categories. It identifies and describes the content of

disciplinary incidents that DB encounter during a physical education session. The SOID is based on an event observation strategy, that is to say that disciplinary incidents are noted according to their appearance during a session.

The SOID uses an event observation strategy. For example, disciplinary incidents are coded as they occur during physical education classes. More specifically, the SOID allows the analysis of a disciplinary incident according to several components (the moment of the lesson where the incident occurs, the number of students involved the disruptive behavior of the students, the reactions of the teacher, the duration of the disciplinary episode, the effect of the teacher's reaction and the source of the incident). The nineteen behaviors that were chosen to report the most common deviances of students are presented in Table 1. These behaviors are grouped into three levels according to the severity of the disruptive behavior and its influence on the course of the session (Table 1).

Table 1. Disruptive behaviors of students

The first level disruptive	The second level disruptive	The third level disruptive
behaviors (DB ₁)	behaviors (DB ₂)	behaviors (DB ₃)
Disruptive behaviors that	Disruptive behavior likely to	Disruptive behaviors that
have a weak influence on the	disturb the class in the short	actually disturb the good flow
life of the class, but which	or medium term.	of the class when they occur.
can disturb the teacher.		
Behaviours	Behaviours	Behaviours
 Distracted 	 Fooling around 	 Criticizing
Bavarde	 Squabbling 	 Lashing out at matériel
• Late	Bulling	 Mugging
No costume	 Making noise 	 Dangerous behavior
Leaving the classroom	 Déforming the rules 	Being rude
	Violates the rules	 Ridiculing
	voluntarily	 Résisting instructions
	 Giving up practice 	

The possible reactions that the teacher can adopt when there is an emergence of nonobservances are twelve in number and are related to the three types of pedagogy (normative: behaviors of imposition, libertarian: permissive behaviors, interactive: behaviors of affirmation and openness). Categories of teacher reactions are presented in **Table 2**.

Table 2: The reactions of trainees.

Table 2. The reaction	ns of transces.				
Normative	Libertarian	Interactive affirmation			
imposition	Permissive	Assertion behavior	Assertion behavior		
The reactions lead	Permessive	The teacher	The teacher opens up to		
students to execute	reactions are	expresses his needs	the needs of students so		
orders that are	characterized by	by applying	that they can decide for		
transmitted	behaviors in	sanctions as	themselves, express		
authoritatively and	which students	consequences to	themselves, negotiate and		
without the right to	are virtually left	the breaches of	take charge.		
appeal.	to their own	rules known but			
	devices.	not respected by			
		the students.			

-	Dictate	a	-	Make	a	-	Apply a	-	Describes the
	behavior			reminder			consequence		behavior
-	Reprimand		-	Ignore		-	Give a reason.	-	Express feelings
-	Designate	a						-	Recognize feelings
	consequence.							-	Attracting
									arrangement.
								-	Encouragement

The Coding. Two coders were trained in the use of SOID for coding video recordings. The coders first worked as a team to become familiar with the observation grid and master all its components. There was a need to practice classifying DB that occur during physical education teaching sessions. In the second place, comes the individual coding followed by the confrontation of the grids which showed some divergences. It was therefore necessary at times to return to the definitions of the components of the grid to ensure the compliance of the DB and agree on the same interpretation.

After the training period, the coding of the two coders was subjected to the fidelity test several times before starting the final coding.

Statistical Procedures

The set of dependent variables related to time of learning have been identified by a grid of observation measuring the time of performance of the duties mentioned above.

We used a software of statistical "Statistical Package of Social Science" SPSS 16.0. The threshold of meaning withheld is of 0.05.

Inference Statistics

Given the small number of observations and the non-normality of the distribution of the whole of the values of the variables, we chose the Mann-Whitney U-test of independent samples and wilcoxon signed rank test of associated samples to compare the values of the variables related to the learning time of two groups of trainee teachers.

Results

Disruptive behavior of students before and after training

The results shown in **Table 3** show the frequency of onset of disruptive behavior before and after training in both groups of trainee students.

Table 3. Frequency of disruptive behavior adopted by students before and after training in ten sessions led by student physical education trainees

Before training, the absolute frequency is expressed as a function of all

	Before	the training (T0)	After	the training (T1)
Disruptive Behaviors	Control group	Experimental group	Control group	Experimental group
Level 1	298 (42.27%)	259 (40.72%)	231 (40.17%)	184 (41.82%)
		, ,	57 (9.91%)	` ,
 Distracted 	87 (12.34 %)	70 (11.01 %)	124 (21.57%)	57 (12.95 %)
• Bavarde	158 (22.41 %)	163 (25.63 %)	, , , ,	116 (26.36 %)
• Late	34 (4.82 %)	19 (2.98 %)	21 (3.65 %)	08 (1.82 %)
 No costume 	16 (2.27 %)	07 (1.1 %)	26 (4.52 %)	02 (0.45 %)
Leaving the classroom	03 (0.43 %)	00 (00 %)	03 (0.52 %)	01 (0.23 %)
Level 2	354 (50.21%)	330 (51.89%)	300 (52.17%)	219 (49.77%)
Level 2	334 (30.2170)	330 (31.07/0)	19 (3.3 %)	217 (47.7770)
 Fooling around 	24 (3.4 %)	27 (4.25 %)	94 (16.35 %)	06 (1.36 %)
 Squabbling 	126 (17.87 %)	109 (17.14%)		78 (17.73 %)
 Bulling 	52 (7.37 %)	72 (11.32 %)	31 (5.39 %)	46 (10.45 %)
Making noise	84 (11.91 %)	51 (8.02 %)	68 (11.83 %)	53 (12.05 %)
• Making noise	01(11)1707	01 (0.02 70)	71 (12.35 %)	00 (12.00 70)
• Déforming the rules	49 (6.95 %)	43 (6.76 %)	17 (2.95 %)	24 (5.45 %)
• Violates the rules	13 (1.84 %)	19 (2.99 %)	, ,	12 (2.73 %)
voluntarilyGiving up practice	06 (0.85 %)	09 (1.41 %)	00 (00 %)	00 (00 %)
Level 3	53 (7.52%)	47 (7.39%)	44 (7.65%)	37 (8.41%)
• Criticizing	07 (0.99 %)	04 (0.63 %)	05 (0.87 %)	03 (0.68 %)
Lashing out at matériel	08 (1.13 %)	06 (0.94 %)	09 (1.57 %)	06 (1.36 %)
• Mugging	05 (0.71 %)	07 (1.1 %)	05 (0.86 %)	08 (1.82 %)
Dangerous behavior	12 (1.7 %)	08 (1.26 %)	07 (1.22 %)	05 (1.14 %)
Being rude	06 (0.85 %)	06 (0.94 %)	06 (1.04 %)	04 (0.91 %)
• Ridiculing	02 (0.28 %) 13 (1.84 %)	00 (00 %) 16 (2.52 %)	03 (0.52 %) 09 (1.57 %)	00 (00 %) 11 (2.5 %)
Résisting instructions		,	, ,	, ,
	705	636	575	440
Total		1341		1015

the disturbing behaviors (n = 1341) with an average of 67.05 disruptive behavior per session and 1.3 disruptive behavior per minute. This very high number of disturbing behaviors (DB) coded prior to the start of training was divided into 705 DB occurring in the ten sessions presented by the control group and 636 DB occurring in the ten sessions presented by the experimental group.

After training, the absolute frequency is expressed as a function of the set of disruptive behaviors (n = 1015) with an average of 50.75 DB per session and 1.01 DB per minute. This number of DB coded after the training, divided into 575 DB occurred in the ten sessions presented by the control group and 440 DB occurred in the ten sessions presented by the experimental group.

For **the control group**; during the first two months of work experience preparation (T0); the classification of disruptive behaviors by level shows that about 50.12% of the behaviors are of second level, that is to say that they are likely to disturb the class in the short or medium term. More specifically, the behaviors "Fooling around " (24), "Make noise" (84), " Squabbling " (126), and " Bulling " (52) are the second-most commonly reported second-level deviances.

First-level disruptive behaviors, which have a small influence on the life of the class but may still disturb the student trainee, account for approximately 42.27% of disruptive behaviors adopted by students. The main deviances of this category are "Bavarde" (158) and " Distracted" (87). Third-level disruptive behaviors, which actually disturb the good progress of the class from the moment they occur, are much less frequent (7.52%) and are expressed mainly by deviances such as " Résisting instructions" (13)," Dangerous behavior "(12).

Finally, it is interesting to note that the disruptive behaviors "Distracted" and "Bavarde" (first level) as well as "Squabbling" and "Making noise" (second level) alone account for 64.54%.

At the end of the work experience preparation course (T1); 52.17% of the behaviors are second level. More specifically, the behaviors "Squabbling" (94), "Déforming the rules" (71) and "Making noise" (68), constitute the most often identified deviances.

First-level disruptive behaviors account for approximately 40.17% of the per-turbor behaviors adopted by students. The main deviances of this category are "Bavarde" (124) and "Distracted" (57).

At the level of third-level disruptive behavior, which accounts for 7.65% of all disruptive behaviors and is expressed mainly by deviances such as "Résisting instructions" (09), "Lashing out at matériel" (09). It is interesting to note that disruptive behaviors "Bavarde" (first level) as well as "Squabbling", "Déforming the rules" and "makes noise" (second level) alone account for 79.55% of all behaviors disruptors.

Finally, it should be noted that all the disruptive behaviors (1st, 2nd and 3rd level) were reduced by 18.44% at the end of the work experience training period.

For **the experimental group**; before the beginning of the training (T0); the classification of disruptive behaviors by level shows that about 51.89% of the behaviors are second level. More specifically, the "Squabbling" (109) and "Bulling" (72) are the second most frequently identified second-level deviances.

At the level of first-level disruptive behaviors that account for about 40.72% of disruptive behaviors adopted by students. The main deviations of this category are "Bavarde" (163) and " Distracted" (70).

Finally, third-level disruptive behaviors are less frequent (7.39%) and are expressed mainly by deviances such as "Résisting instructions" (16), "Dangerous behavior" (08). Finally, it is interesting to note that the disruptive behaviors "Distracted" and "Bavarde" (first level) as well as "Squabbling", "Bulling" (second level) count alone for 73.11%.

After three months of training (T1), 49.77% of the behaviors are second level. More specifically, the behaviors «Squabbling» (78), «Making noise" (53) and «Bulling" (46), constitute the most frequent deviances.

First-level disruptive behaviors account for approximately 41.82% of the disruptive behaviors adopted by students. The main deviances of this category are "Bavarde" (116) and "distracted" (57).

At the level of third-level deviant behavior which represents 8.41% of all disruptive behaviors and is expressed mainly by deviances such as "Résisting instructions" (11), "Mugging" (08).

We also find that the disruptive behaviors "distracted" and "Bavarde" (first level) as well as "Squabbling"," Making noise " and "Bulling " (second level) alone account for 79.55%.

Finally, it should be noted that all the disruptive behaviors (1st, 2nd and 3rd level) suffered a decrease of 30.82% in the control group. Hence, this decrease in the frequencies of appearance of deviant behaviors adopted by the students during the sessions led by the trainee teachers is more important at the experimental group than the control group.

18 19 The First Level Disruptive Behaviors (DB₁):

1 2

Table 4. Frequency of onset of type 1 disruptive behaviors (DB_1) by session time before and after training in both groups (experimental and control)

		G _{CONT} /G _{Exp}	G _{CONT} / G _{Exp}	Control group	Experimental group
	Situations	T ₀	T ₁	$(T_0 \rightarrow T_1)$	$(T_0 \rightarrow T_1)$
	Before class	P=0.247	P=0.796	P = 1	P = 0.305
	Introduction	P= 1	P= 0.19	P = 0.003	P = 0.001
	Warming up	P= 0.631	P= 0.971	P =0.002	P=0.00
DB_1	Explanation	P= 0.353	P= 1	P = 0.000	P = 0.000
	Transition	P= 1	P= 0.19	P =0.000	P=0.000
	Educative	P= 0.063	P= 1	P =0.000	P=0.000
	Game	P= 1	$P = 1.229.10^{-4}$	P=0.000	P=0.000
	Conclusion	P= 0.315	P=0.007	P=0.000	P=0.007

Before training (T0), the frequency of onset of Type 1 disruptive behaviors ($\mathbf{DB_1}$) was insignificant between the two groups. This means that there is no difference between the two groups in the frequency of occurrence of $\mathbf{DB_1}$.

After three months of training (at T1), the frequency of deviant episodes was nonsignificant between the two groups except at the 'Game' (p = 1.229.10-4) and 'conclusion' moments (p = 0.007). In situations of 'play' and 'conclusion', the frequency of occurrence of these behaviors was greater in Control group than Experimental group.

At the end of the vocational training course, the variation in the frequencies of DB_1 appearances decreased significantly in both groups (Control group and Experimental group). However, at the time before the

course the frequencies of appearance of the $\mathbf{DB_1}$ remain very high for the Control group (p = 1) and the Experimental group (p = 0.305).

The Second Level Disruptive Behaviors (DB₂)

Table 5. Frequency of onset of Type 2 Disruptive Behavior (DB2) by session time before and after training in both groups (experimental and control)

		G _{CONT} /G _{Exp}	G _{CONT} / G _{Exp}	Control	Experimental
Situat	tions	T_0	T_1	$(T_0 T_1)$	$(T_0 T_1)$
	Before class	P = 0.481	P = 0.796	P = 0.001	P = 0.001
	Introduction	P = 0.143	P = 0.481	P = 0.000	P = 0.000
	Warming up	P = 0.247	$P = 3.2.10^{-4}$	P=0.000	P=0.001
DB_2	Explanation	P = 0.739	P = 0.912	P = 0.000	P = 0.000
	Transition	P = 0.143	P = 0.015	P=0.001	P = 0.000
	Educative	$P = 4.8.10^{-8}$	$P = 1.08.10^{-5}$	P=0.000	P=0.000
	Game	P = 0.247	P = 0.436	P=0.000	P=0.000
	Conclusion	P = 0.353	P = 0.015	P=0.000	P=0.001

Before training (T0), the frequency of onset of Type 2 disruptive behaviors ($\mathbf{DB_2}$) was insignificant between the two groups, except at the 'Educative' phase (p = 4.8.10-8). During this phase, sessions led by the GCONT scored a higher number of $\mathbf{DB_2}$.

After three months of training (T1), the frequency of $\mathbf{DB_2}$ remained insignificant for the following phases: 'Before the course' (p = 0.796), 'Introduction' (p = 0.481), 'Explanation' (p = 0.912) and 'Game' (p = 0.436). While during the warm up situations' (p = 3.2.10-4), 'Transition' (p = 0.015), 'Educational' (p = 1.08.10-5) and 'Conclusion' (p = 0.015); the frequency of $\mathbf{DB_2}$ is less important in Experimental group than Control group.

At the end of the work experience preparation course, the variation in DB_2 occurrence frequencies decreased significantly in both groups (Control group and Experimental group).

The Third Level Disruptive Behaviors (DB₃)

Table 6. Frequency of onset of type 3 disruptive behaviors (DB3) by session time before and after training in both groups (experimental and control)

		G _{CONT} /	G	CONT / GExp	Control	Experimental
	Situations	G _{Exp}		T_1	group	$ \begin{array}{c} group \\ (T_0 \rightarrow T_1) \end{array} $
	Before class	$\begin{array}{ c c } \hline T_0 \\ P = 0.481 \end{array}$		P = 0.143	$(T_0 T_1)$ $P = 0.157$	P = 0.002
	Introduction	P = 0.143		P = 0.739	P = 0.166	P = 0.002
	Warming up	P = 1		P = 0.481	P = 0.157	P = 0.058
DB_3	Explanation	P = 0.143		P = 0.481	P = 0.366	P = 0.003

Tr	ransition	P = 0.436	P = 0.218	P = 0.01	P = 0.026
Ed	ducative	P = 0.796	P = 0.481	P = 0.184	P = 0.032
Ga	ame	P = 0.393	P = 0.579	P = 0.007	P = 0.001
Co	onclusion	P = 0.123	P = 1	P = 0.346	P = 0.007

Before the formation (T0), there is no difference between the two groups at the frequency of occurrence of DB_3 .

After three months of training (T1), the frequency of DB_3 was nonsignificant between the two groups (Control group than Experimental group). However, it should be noted that at the level of the variation of the frequencies of appearances of the DB_3 , one detects a significant decrease and more important in the Experimental group than the Control group. This decrease appeared mainly in the situations of 'Before class' (p = 0.002), 'Introduction' (P = 0.002), 'Explanation' (p = 0.003), 'Transition' (p = 0.026), 'Educational' (p = 0.032), 'Game' (p = 0.001) and 'Conclusion' (p = 0.007).

For the Control group, at the end of the work-experience training period, the variation in the frequency of DB_3 was not significant for the 'before class' situations (p = 0.157),' introduction '(p = 0.166),' Warming up '(p = 0.157),' Explanation '(p = 0.366),' Educative '(p = 0.184) and 'Conclusion '(p = 0.346).

Trainee Teachers' Reactions to the Disruptive Behavior of their Students before and After the Training

Table 7. Trainee teacher reactions to student disruptive behavior (DB) before and after the training

Reactions of teachers Trainees		he training T0)	After	the training (T1)
	Control group	Experimental group	Control group	Experimental group
	F	F	F	F
NORMATIVE	258	287	223	210
IMPOSITION	(46.74 %)	(58.45 %)	(45.05	(51.6 %)
			%)	
Dictates behavior	192	214	151	156
	(34.78 %)	(43.58 %)	(30.51	(38.32 %)
			%)	
Reprimand	38	52	40	35
	(6.88 %)	(10.59 %)	(8.08)	(8.59 %)
			%)	
Designate a	28	21	32	19
consequence	(5.07 %)	(4.28%)	(6.46	(4.69 %)
			%)	
LIBERTARIAN	224	161	189	123
PERMISSIVE	(40.58 %)	(32.79 %)	(38.18	(30.22 %)
			%)	
Make a reminder	61	46	79	71
	(11.05 %)	(9.37 %)	(15.96	(17.44 %)
	(,	(%)	(,
Ignore	163	115	110	52
	(29.53 %)	(23.42 %)	(22.22	(12.78 %)
			%)	
INTERACTIVE	70	43	83	74
AFFIRMATION	(12.68 %)	(8.76 %)	(16.77	(18.18 %)

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1. Assertion behavior:			%)	
Apply a consequence	13 (2.36 %)	07 (1.43 %)	16 (3.23 %)	14 (3.44 %)
Give a reason	26 (4.71 %)	12 (2.44 %)	21 (4.24 %)	18 (4.42 %)
2. Opening behavior:				
Describes the behavior	07 (1.27 %)	08 (1.63 %)	12 (2.42 %)	13 (3.19 %)
Expresses feelings	13 (2.36 %)	11 (2.24 %)	21 (4.24 %)	19 (4.67 %)
Recognize feelings	04 (0.72 %)	00 (00 %)	04 (0.81 %)	03 (0.74 %)
Attracting arrangement	05 (0.9 %)	05 (1.02 %)	03 (0.61 %)	03 (0.74 %)
Encouragement	02 (0.36 %)	00 (00 %)	06 (1.21 %)	04 (0.98 %)
Total	552	491	495	407

The trainees 'reactions to the disruptive behavior of their students are shown in Table 7 and show that trainees' Experimental group and Control group reacted 491 and 552 times respectively to disruptive behaviors displayed by their students in ten sessions before the start of the formation (T0).

The nature of the trainees' reactions reveals that the normative approach is dominant among them (Experimental group—and Control group). Indeed, more than 50% of his reactions constitute tax behaviors. The most revealing reactions of this trend for both groups are "dictates behavior" and "reprimand". In addition, the Control group is regularly libertarian (40.58%) than the Experimental group (32.79%). Finally, it should be noted that the interactive pedagogy is far from being used by the trainees of the two groups: Control group (12.68%) and Experimental group (8.76%) at the beginning of the training course for professional life. Apres trois mois de formation, les réactions des enseignants stagiaires aux comportements perturbateurs de ses élèves atteignent 495 pour Control group et 407 pour le $G_{\rm EXP}$ lors de dix séances après la fin de la formation (T_1) .

After the training, the normative approach dominates the nature of the reactions of the trainees of the two groups (Experimental group and Control group). In fact, the tax behaviors cover more than 45% of Control group and 51.6% of Experimental group reactions. The most revealing reactions for both groups remain "dictates behavior" and "reprimand". In addition, the Control group is regularly libertarian (38.18%) than the Experimental group (30.22%). Finally, it should be noted that the Experimental group after the training was more interactive in its reactions to their students than the Control

group since they reach 18.18% of the reaction set, while the Control group reaches 16.77%.

Discussion

At the level of disruptive behaviors (DB), the data collected with the help of DIOS first showed that the courses run by trainee students during a work experience training course show a high degree of disruption since there is a rate of 1.3 and 1.01 DB per minute. We also find that the highest number of deviant student behaviors was second-level (DB2) with a percentage of over 49% of all behaviors. In addition, all type 1 and 2 disruptive behaviors constitute 90% of inappropriate behaviors and are behaviors with little influence on the life of the class when they appear. Whereas, third-level deviances, which actually interfere with the smooth running of the class from the moment they occur, are much less frequent and constitute between 7% and 8% of students' deviant behavior during sessions led by trainee students. These results are clearly in line with other research using DIOS (Hodges Kulinna P. et al 2006).

For first-level disruptive behavior (DB1), the frequency of onset was insignificant between the two groups (Control and Experimental group) during the different moments of the session, at the beginning of the training course for professional life. Indeed, DB1 represents approximately 42.27% for the Control group and 40.17% for the Experimental group. This is consistent with the study by 'Stephan Dostie' (1996) who states that students commit particularly high level nonobservances when they are close to the teacher during periods of explanation.

After three months of training (T1), the frequency of deviant episodes was insignificant between the two groups except at the 'Game' (p = 1.229.10-4) and 'conclusion' moments (p = 0.007). In both situations, the frequency of occurrence of these deviant behaviors was greater in the Control group than the Experimental group. This is explained by trainees' ignorance behaviors to disruptive behaviors in certain phases of the session, which encourages their repetition and even their amplification (Brunelle et al 1993).

However, the high frequency of disruptive behaviors in the classes observed suggests a more specific analysis of the moments when these nonobservances occur. Indeed, the variation of the frequencies of appearances of DB1 underwent a significant decrease in the two groups (Control group and Experimental group) except at the moment 'Before the course' the frequencies of appearance of the DB1 remains very high for the Control group (p=1) and the Experimental group (p=0.305). Indeed, during this moment of the session, the trainee is focused on the preparation and organization of the students, materials ... This result converges with the research of 'Siedentop D.' (1994) which asserts that the de-ranking behaviors of students are more likely to occur during organizational periods than during explanations or practice periods.De même, il faut signaler que les principales déviances de cette catégorie avant et après la formation pour les deux groupes étaient "Bavarde" et "Est distrait".

For second-level disruptive behaviors (DB2), the frequency of onset was nonsignificant between the two groups and represented approximately 50.21% for the Control group and 51.89% for the GEXP. Thus, the sessions led by the trainees of the Control group marked a higher number of DB2 at the 'Educational' moment ($p = 4.8.10^{-8}$). This is translated by Méard, J. & Bertone, S. (1998) who found that the attitude of students varies according to the situation, according to the more or less important importance of the rules to which teachers are attached when they teach.

After three months of training (T1), the frequency of DB2 remained insignificant at the following times: 'Before class', 'Introduction', 'Explanation' and 'Game'. Indeed, the DB2 remained very frequent during these sessions led by the two groups of trainees. This is the result of greater freedom of action and interaction between students during these moments of the session 'Stéphan Dostie' (1996). While during the warm-up situations' (p = 3.2.10⁻⁴), 'Transition' (p = 0.015), 'Educational' (p = 1.08.10-5) and 'Conclusion' (p = 0.015); the frequency of DB2 are less important in Experimental group than the Control group. This can be explained by the fact that trainees who have been trained in "Body language and public speaking" are more interactive with students in the classroom. Hence, the pupil is not in a situation of spectators where the possibilities of adopting inappropriate behavior are numerous (Brunelle et al, 1993).

However, the variation in the frequency of DB2 appearances at the end of the work-life preparation stage, was significantly reduced in both groups (Control group and Experimental group).

Similarly, it should be noted that the main deviations of this category before and after the training for both groups were s "chamaille".

At T0, the frequency of onset of third-level disruptive behaviors (DB3) was insignificant between the two groups (Control group and Experimental group) at different times of the session. Indeed, the DB3s represent approximately 7.52% for the Control group and 7.39% for the Experimental group of the set of behaviors.

At T1, the frequency of the DB3s was nonsignificant between the two groups (Control group than the Experi-mental group). However, it should be noted that at the level of the variation of the frequencies of appearances of the DB3, a significant decrease is detected and more important in the Experimental group than the Con-trol group. For the Experimental group, this decrease appeared mainly in the situations of 'Before class' (p = 0.002), 'Introduction' (P = 0.002), 'Explanation' (p = 0.003), 'Transition' (p = 0.026), 'Educational' (p = 0.032), 'Game' (p = 0.001) and 'Conclusion' (p = 0.007). Whereas at the level of the sessions led by the Control group, the variation of the frequency of the DB3 were not significant in the situations of 'Before the course' (p = 0.157), 'Introduction' (p = 0.166), 'Warming up' '(p = 0.157),' Explanation '(p = 0.366),' Educational '(p = 0.184) and Conclusion '(p = 0.346). These results converge towards the study of 'Stephan Dostie' (1996) who asserts that the high frequencies of DB3 is one of the clues for the teacher that these episodes are too long for the attention span of his students and that these organizational routines are no longer effective.

Faced with the various disruptive behaviors, normative pedagogy dominates the nature of the reactions of the trainees of the two groups (Experimental group and Control group) along the stage of preparation to the professional life. In the same way, trainee students are also quite permissive but rarely use interactive pedagogy. This propensity for normative pedagogy is relatively constant regardless of the level of disruptive behavior involved. This finding is explained by the rather limited repertoires of trainees' reactions to these behaviors (Hodges Kulinna, P. (2006)).

However, it should be noted that trainees trained in "Body language and public speaking" were slightly more interactive in their reactions to the different deviant behaviors of their students than other trainees.

In terms of finalization, the data collected with the help of the SOID at the end of the work experience preparation period first allowed us to note the high frequency of disruptive behaviors in the sessions observed. More specifically, more than 90% of these non-observances may potentially disturb the class in the short or medium term (DB1 and DB2). For third-level deviances (DB3), which actually disturb the smooth running of the class from the moment they occur, are much less frequent and constitute between 7% and 8% of nonobservances shown by students.

In addition, disruptive behaviors appear more frequently at certain times of the session. In fact, students regularly adopt inappropriate behaviors during transitions, explanations, educational and play situations. However, in the course of the sessions led by trainee students who have undergone the training of "Body language and speaking in public"; the frequency of occurrence of DB1 and DB1 are slightly lower. For DB3s, a larger decrease was detected in sessions led by trainees who attended the training than their counterpart.

On the other hand, normative pedagogy dominates the nature of student trainees' reactions to the different disruptive behaviors along the vocational preparation stage. While, the trainees who attended the training were slightly more interactive in their reactions to the different deviant behaviors of their students than the other trainees.

Conclusion

The data collected with the help of the SOID, it can be deduced that the courses directed by trainee students during work-readiness internships show a high degree of disruption, since there is a rate of 1.3 and 1.01 DB per minute. In addition, all Type 1 and Type 2 disruptive behaviors constitute 90% of inappropriate behaviors and are behaviors with little influence on the life of the class when they occur. Whereas, third-level deviances, which actually interfere with the smooth running of the class from the moment they occur, are much less frequent and constitute between 7% and 8% of students' deviant behavior during sessions led by trainee students.

 However, the frequency of onset of disruptive behaviors (DB₁ and DB₂) is slightly lower in sessions facilitated by trainees who have been trained in "Body language and public speaking". Similarly, at the level of disruptive

- behaviors (DB₃), the trainees who underwent the training realized a greater decrease in the frequency of appearance of these behaviors.
- Faced with these disruptive behaviors, the trainees who attended the training were slightly more interactive in their reactions during the sessions.

The impact that this study could have on the initial training of physical education teachers

The results of our studies illustrate the reality of the practice of future teachers during the preparatory course for professional life. Indeed, they constitute a repertoire to perceive the different disruptive behaviors of students and the reactions of trainee students to these behaviors.

By way of this presentation, our doctoral work can certainly be used as part of the initial training of PSE teachers and in formalizing the professional skills repository for teachers of Tunisian PSE.

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