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Impacts of the interpersonal relationship on interactive patient citizenship and dysfunctional behaviors: An empirical analysis in the nursing context

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- 1 Introduction
- 2 Forms of interactive patient citizenship and dysfunctional behavior: Literature review and exploratory analysis
- 3 Effects of the perceived interpersonal relationship on interactive patient citizenship and dysfunctional behavior: Conceptual framework and hypotheses development
- 4 Quantitative empirical study: Methodology and findings
- 5 Conclusion and implications

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Patients are widely acknowledged as **indispensible co-creators of value** in the health care context

Studies focus on mandatory inpatient participation behavior towards physicians in the health care service encounter

As research concerning different types of value co-creation behavior in other specific health care contexts has shown, **patients do not only show mandatory**, but also different kinds of **voluntary behavior**

▶ Inpatients may also perform different kinds of such extra-role, citizenship behavior benefiting the service provider in some way

On the contrary, research in professional service contexts demonstrates that cocreation behavior of customers may not always be effective

Therefore, dysfunctional patient behavior, defined as any patient behavior that obstructs the service provider from cocreating value, may also be an issue in the clinic context, where patients are in an anxiety-producing situation in which they are confronted with uncertainty and risk

- ▶ In the clinic context, inpatients may show citizenship and dysfunctional behavior especially during service interactions with nurses due to the nature, duration and intensity of the interpersonal relationship between patients and nurses
- ► The role of the nurse as health care provider differs from the role of physicians: Nurses see fewer patients and spend more time with each patient
- ► Thus, they seem to be able to develop closer interpersonal relationships based on communication and observable actions, which may have an impact on patient citizenship as well as dysfunctional behavior

Patient citizenship and dysfunctional behavior may emerge in different forms and can also occur simultaneously.

- ► Considering current research in health care services, there is a lack concerning inpatient citizenship and dysfunctional behavior towards the nurse during service interactions in the service encounter.
- Moreover, it is necessary to investigate the <u>different forms</u> of citizenship and dysfunctional behavior in detail as well as to identify **opportunities for nurses to influence these different forms** of patient behavior during service interactions.

RESEARCH GAP

Our study addresses this research gap by developing and empirically testing a research model to explain the influence of the perceived nurse-patient-relationship on the different forms of patient citizenship and dysfunctional behavior.



The objectives of the study are to...

...identify different forms of patient citizenship and dysfunctional behavior during service interactions with nurses

...demonstrate direct as well as indirect effects - emerging through positive and negative patient emotions - of the perceived interpersonal relationship on different forms of interactive patient citizenship and dysfunctional behavior

...show how different forms of interactive patient citizenship and dysfunctional behavior influence perceived service quality

...provide empirical evidence that patients' perceptions of the communication and interactive citizenship behavior of nurses affect the interpersonal relationship

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Support through direct interactions

- behavior that resembles the work performed by the recipient
- engaging in the recipient's role

Support through positive word of mouth

- behavior that displays commitment to the recipient
- recommendation towards superiors as well as family and friends

Support through personal appreciation

 behavior that includes friendliness, sociability or positive emotions towards the recipient

Interactive Patient Citizenship Behavior (IPCB)

Support through information

 behavior that involves providing information to the recipient with the intention of improving the service offering

Support through individual encouragement

- behavior that assists the recipient's ability to cope with (stressful) situations
- involves sympathy/empathy towards the recipient

Support through patience and understanding

 behavior that displays flexibility, tolerance, sacrifice and/or forgiveness associated with service delivery



(based on Garma/Bove 2011)

Refusal to cooperate

 behavior that includes actively choosing not to contribute actions or resources to a service encounter

Verbal abuse

- behavior that is characterized by the misuse of words
- most commonly reported form in service encounters

Negative word of mouth

 behavior that is characterized by opportunistic complaining Interactive Dysfunctional Patient Behavior (IDPB)

Physical aggression

 overt behavior that either threatens or causes physical harm or discomfort to the recipient

Sexual harassment

 behavior that includes sexist statements, inappropriate sexual advances, coercive sexual activity or sexual assault



Literature review

Data collection

▶ In-depth, face-to-face, semi-structured interviews with 17 inpatients and 26 nurses in four hospitals

Data analysis

- All interviews were recorded and transcribed
- ► The analysis followed a combination of conventional and directed content analysis using the qualitative data analysis software MAXQDA 11
- ► The researchers deductively developed and inductively refined a coding scheme
- The test of inter coder reliability resulted in a value of 0.71, which is above the recommended threshold of 0.70

Form of IPCB	Quotes II	npatients	Quotes Nurses		
	Absolute frequency	Relative frequency	Absolute frequency	Relative frequency	
Support through direct interactions	51	39,84 %	67	34,01 %	
Support through positive word of mouth	10	7,81 %	26	13,2 %	
Support through information	9	7,03 %	27	13,71 %	
Support through patience and understanding	35	27,34 %	36	18,27 %	
Support through individual encouragement	15	11,72 %	25	12,69 %	
Support through personal appreciation	8	6,25 %	16	8,12 %	
Total	128	100 %	197	100 %	

Quotes Nurses

"Ich rufe nicht jedes Mal eine Krankenschwester, um mein Bett hochzuhieven, das versuche ich schon irgendwie selber hinzubekommen."

(weibliche Patientin)

	(Relative	Absolute	Relative		
		frequency	frequency	frequency	frequency		
	Support arough direct interactions	51	39,84 % "Man ve	rgisst es einfa	ch, wem habe id	ch ch	
	Support through positive word of mouth	10	jetzt no das ist	zt noch eine Infusion angehängt () as ist dann halt schon mal ganz gut,			
	Support through information		wenn die Patienten sich melden oder einen daran erinnern" (weibliche Pflegekraft)				
	Support through patience and understanding	35	27,34 %	36	18,27 %		
	Supp "	15	11,72 %	25	12,69 %		
"Oder eben	, der Patient erkennt das, oh,	, Sie haben ja l	keine Zeit,				
Schwester, ich will Sie nicht aufhalten. Sowas komi (weibliche Pflegekraft)			mt da."	16	8,12 %		
		120	100 %	197	100 %		

Form of IDPB	Quotes II	npatients	Quotes Nurses		
	Absolute frequency	Relative frequency	Absolute frequency	Relative frequency	
Refusal to cooperate	20	74,07 %	72	54,14 %	
Verbal abuse	4	14,81 %	23	17,29 %	
Physical aggression	0	0 %	11	8,27 %	
Negative word of mouth	3	11,11 %	20	15,04 %	
Sexual harrassment	0	0 %	7	5,26 %	
Total	27	100 %	133	100 %	

"Es gibt schon auch Patienten, die das verweigern.

Ja, gibt es. Die sagen, ich wasche mich nicht. Wenn Sie das nicht machen, wasche ich mich halt nicht."

(weibliche Expertin)

ients

Relativ

Absolute

"Ja, die werden auch ausfällig (…)
bei Kollegen höre ich das auch ganz
häufig (…)Die werden dann wirklich
angeraunzt und ange-… ja, beschimpft.
Auch teilweise beleidigt."

(männliche Pflegekraft)

	frequency		пецы	(männliche	Pflegekraft)
Refusal to cooperate		74,07 %	72	54,14 %	
Verbal abuse	4	14,81 %			
Physical aggression		"Ja,	gab´s dann a	uch schon mal	, dass es dann
Negative word of mouth	3		_		en Schlag, oder so. ab´s alles. Ja, ja."
Sexual barrassment	0	0 %	(mänr	nliche Pflegekra	aft)
Total	27	100 %	133	100 %	

"Bei jüngeren Schwestern, die auch vielleicht ein bisschen attraktiver sind (...) dann kommt das vor. Wenn (...) es ist jetzt einmal, wo ich da war, vorgekommen, dass eine Schülerin (...)hat einen Tatschen auf den Popo gekriegt von einem Patienten.

Das geht gar nicht!"(weibliche Pflegekraft)

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Hypotheses development

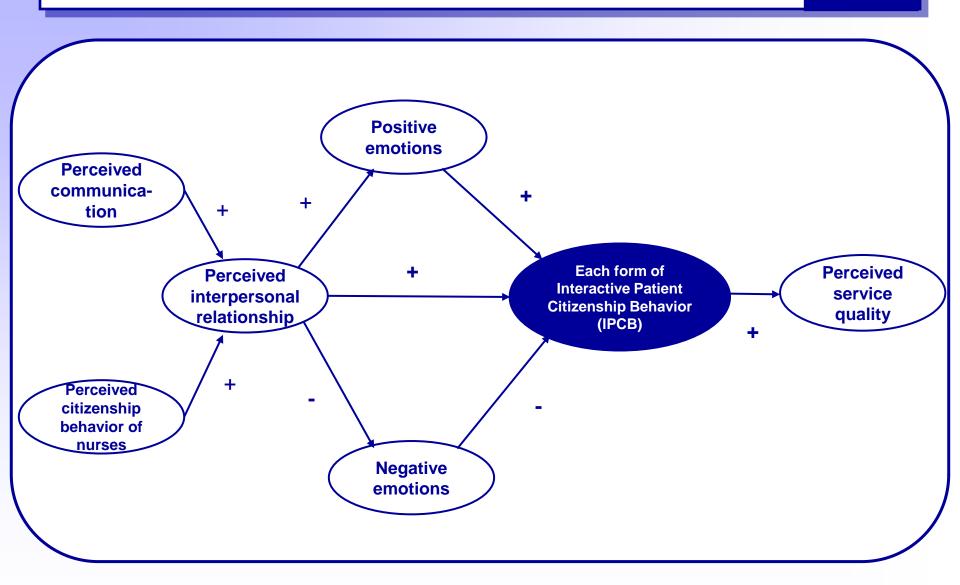
based on findings from

Literature review

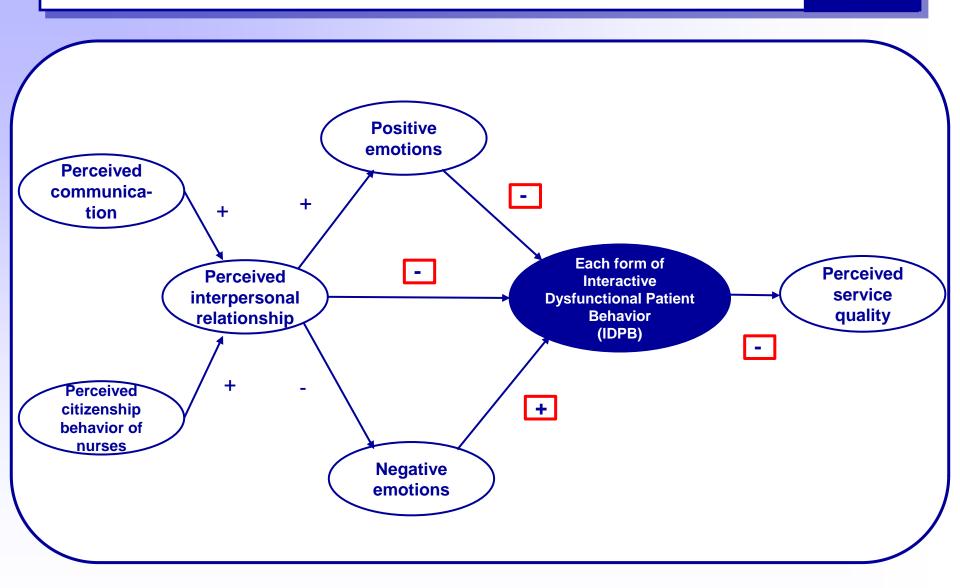
- ► Customer Citizenship Behavior ✓
- ▶ Dysfunctional Customer Behavior ✓
- ▶ Relationship Marketing ✓
- ▶ Nursing/Health Care Services ✓

Theoretical foundation

- Social exchange theory (especially the expectation of reciprocity)
- ► Affect theory of social exchange







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Development and pre-test of the questionnaire

- ► Use of existing scales when available (e.g. PANAS scale)
- ► Further development of specific scales for the purpose of this study

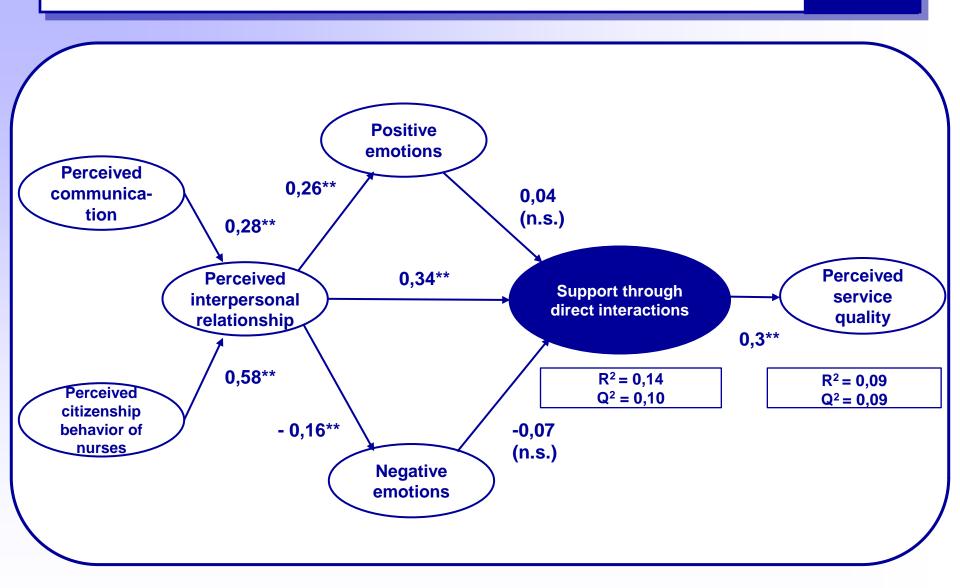
Data collection

- ▶ 929 patients were asked to participate in the study <u>during</u> <u>their stay in hospital</u>
- Consideration of a code of ethics
- ▶ In total, 456 patients participated (response rate of 49 %)
- ➤ Structured questionnaires were self-completed by the patients <u>during their stay in hospital</u>
- ► 404 questionnaires were usable for the analysis

Data analysis

- ►Two-stage modeling approach (Anderson & Gerbing)
- Measurement model estimation (SmartPLS 2.0)
- Analysis of content validity, indicator and construct reliability, as well as discriminant and convergent validity
- ▶ Harman´s single factor test
- Structural equation modeling analysis for each form of patient citizenship and dysfunctional behavior



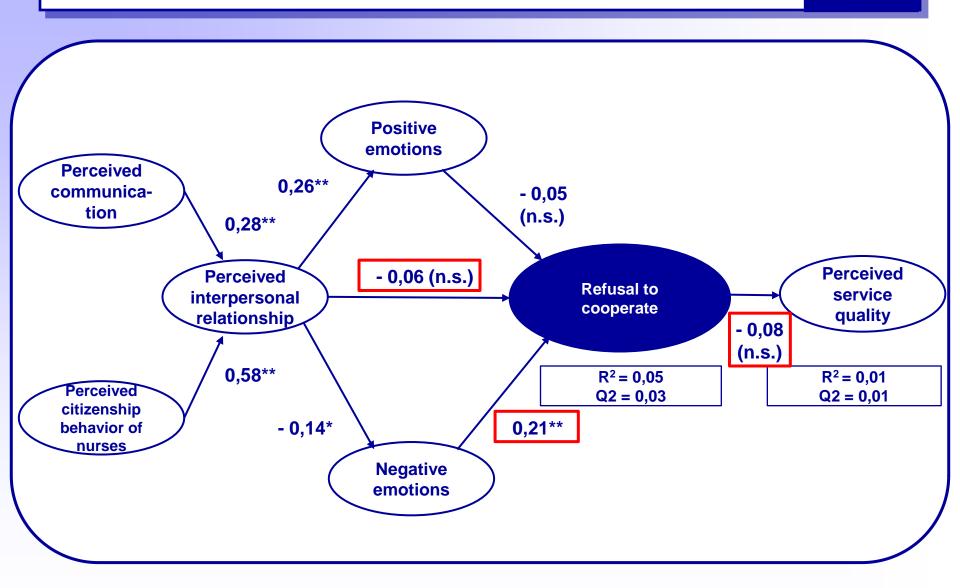




Structural Paths	Support through direct interactions	Support through information	Support through patience and under- standing	Support through positive word of mouth	Support through individual encourage- ment	Support through personal appreciation
Communication -> Relationship	0,28**	0,27**	0,28**	0,27**	0,27**	0,27**
Citizenship Nurse -> Relationship	0,58**	0,58**	0,58**	0,58**	0,58**	0,58**
Relationship -> Positive emotions	0,26**	0,26**	0,27**	0,26**	0,26**	0,26**
Relationship -> Negative emotions	-0,16**	-0,17**	-0,18**	-0,19**	-0,19**	-0,18**
Relationship ->	0,34**	0,34**	0,44**	0,5**	0,54**	0,38**
Positive emotions ->	0,04	0,17**	-0,02	0,09	0,09*	0,13**
Negative emotions ->	-0,07	-0,03	-0,03	-0,02	-0,02	-0,01
IPCB -> Service quality	0,3**	0,28**	0,32**	0,49**	0,49**	0,37**



*p < 0,05; **p < 0,01

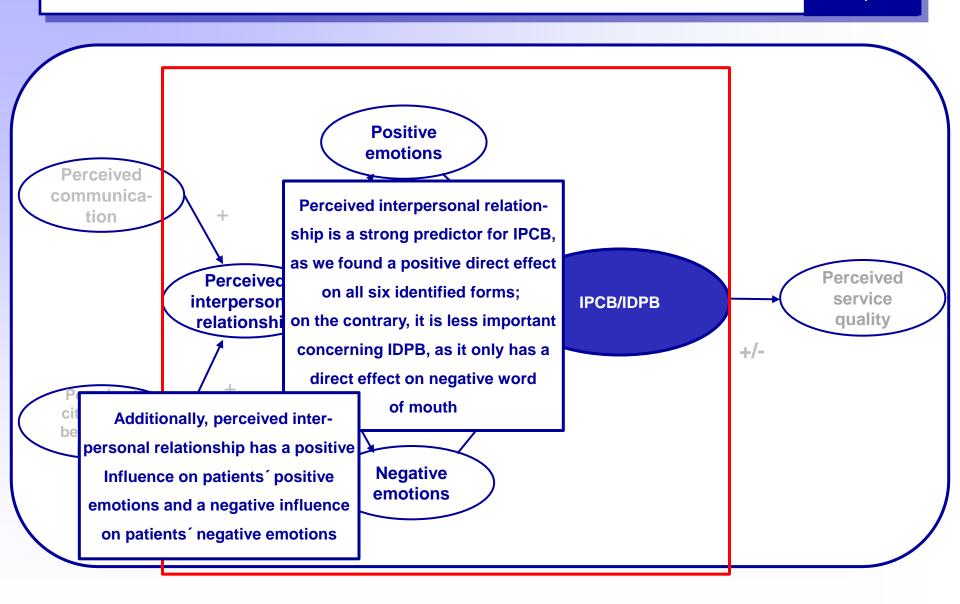




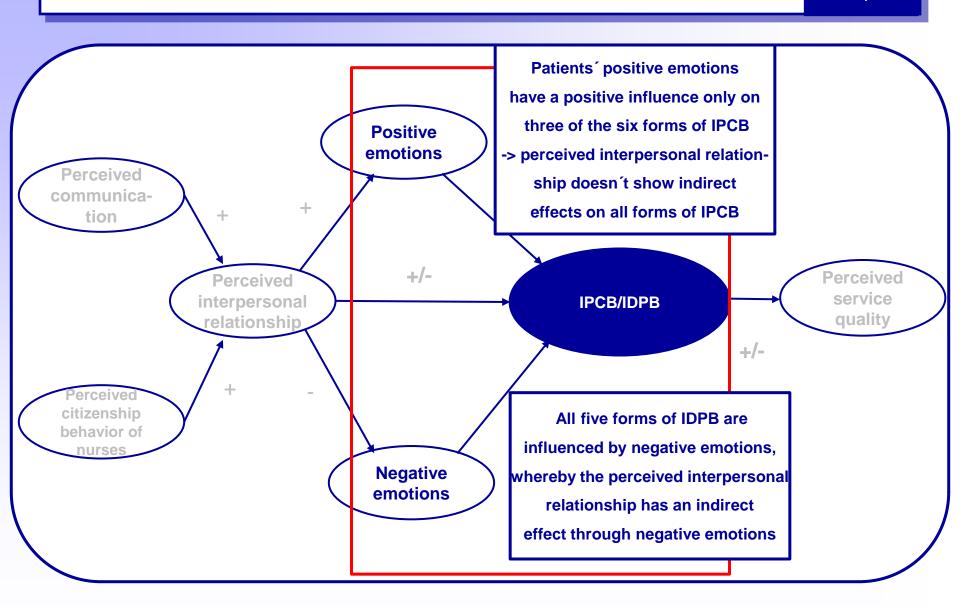
Structural Paths	Refusal to cooperate	Verbal abuse	Negative word of mouth	Physical aggression	Sexual harrassment
Communication -> Relationship	0,28**	0,28**	0,28**	0,28**	0,28**
Citizenship Nurse -> Relationship	0,58**	0,58**	0,58**	0,58**	0,58**
Relationship -> Positive emotions	0,26**	0,26**	0,26**	0,26**	0,26**
Relationship -> Negative emotions	-0,14*	-0,16**	-0,16**	-0,15**	-0,15**
Relationship ->	-0,06	-0,03	-0,11*	-0,01	-0,00
Positive emotions ->	-0,05	-0,11	-0,01	-0,03	-0,00
Negative emotions -> IDPB	0,21**	0,22**	0,23**	0,18*	0,2**
IDPB -> Service quality	-0,08	-0,07	-0,09	-0,03	-0,01

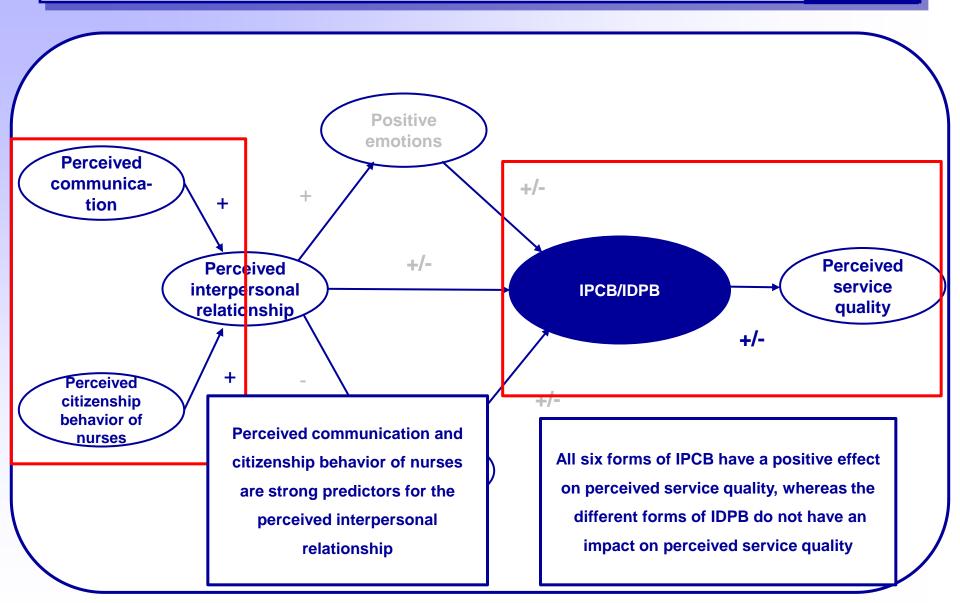
*p < 0,05; **p < 0,01







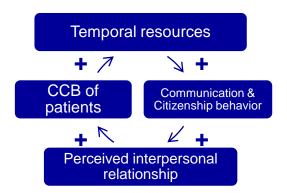




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Our results strenghten the high relevance of positive interpersonal relationships for the different forms of interactive citizenship behavior of inpatients:

- ▶ Nurses are able to stimulate patient citizenship behavior directly, which in turn has an impact on perceived service quality
- ▶ Perceived communication and citizenship behavior of nurses are crucial to establish strong interpersonal relationships
- ▶ Thus, it is necessary that the hospital management understands that nurses need to have special communication skills as well as **temporal resources** which contribute to efficient nursing processes :



Moreover, nurses need to understand the importance of the norm of reciprocity in order to be motivated to show interactive citizenship behavior

On the contrary, the interpersonal relationship provides lesser chances to influence the different forms of interactive dysfunctional behavior of patients

- ► The direct effect of the interpersonal relationship on interactive dysfunctional patient behavior is rather low, as the results show only significant correlations concerning one form of IDPB
- ► However, nurses have the chance to influence interactive dysfunctional patient behavior indirectly by reducing the patients´ negative emotions
- ► This basically brings along the same implications concerning interactive patient citizenship behavior
- ► Moreover, it is crucial that nurses are trained with special tactics in order to cope with dysfunctional patient behavior
- ➤ Finally, dysfunctional behavior in the form of lacking participation may be caused by unclear role requirements; therefore, patient education may enhance the understanding of their role in the service delivery

Thank you very much for your interest and your attention!

We are looking forward to your questions and comments.

Contact

If you are interested or have any further questions please contact:

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