

Restorative Benefits of Paediatric Ward as Play Milieu in Nigerian Hospital

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Thesis Overview

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Introduction

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Caged:

- Aggression
- Withdrawal

Unstructured stimulation:

Regressive behaviour



Habitat:

- Playfulness
- Interact

Structured stimulation:

Progressive behaviours

Statement of Problem

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- The play behaviours of the polar bear cubs are similar to that of the children.

Because of mismatch between the ward conditions and the children, such as;

- Separation from peers and love ones
- Staying with strangers
- Experiencing different routines
- Loss of privacy, and control.

In addition to;

- Confined space
- Strange medical apparatus, and
- Over crowdedness.

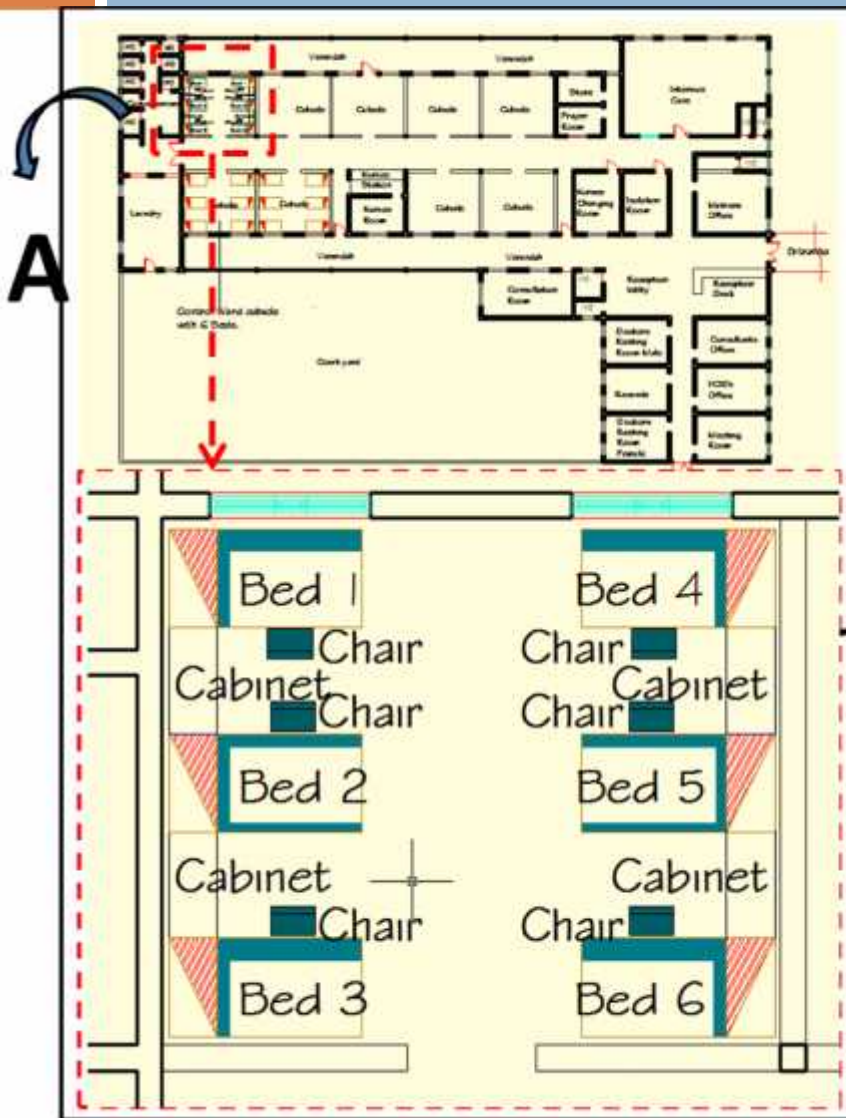
This causes regressive behaviour;

- Restlessness
- Crying
- Withdrawal and
- Reduced functioning.

Children Ward (Before)

Abubakar Tafawa Balewa University Teaching Hospital, Bauchi

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Children Ward		Cubicle
		Area (m ²)
	Number of Beds	6 or more
	Cubicles	378.0
	Aisle	99.0
	offices/courtyard	203.0
TOTAL AREA		680.0

A

6 Bedded typical ward cubicle used as control ward

SELECTION CRITERIA:

- ❖ One of the 18th Teaching Hospitals of the Federal Government;
- ❖ It has 700-bed capacity with different generation of infrastructure from 1981;
- ❖ The hospital offers full services involving healthcare services, training and research;
- ❖ An average of 3400 patients are seen for different diagnosis per week

Research Gap

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Paediatric Nursing
Behavioural Science
Environmental
Psychology
Child Psychology,
Children youth
Environment

Hospital
Architectures in
healthcare
studies

Privacy
Facilities
Safety
Sustainability
Ventilation
flexibility

This study tends to fill the identified gaps through using architectural space and elements to explores children activities and behaviours during their hospitalization.

- Space for senses and body, space for cure and functioning and space with primitive preference

Research Aim and Objectives

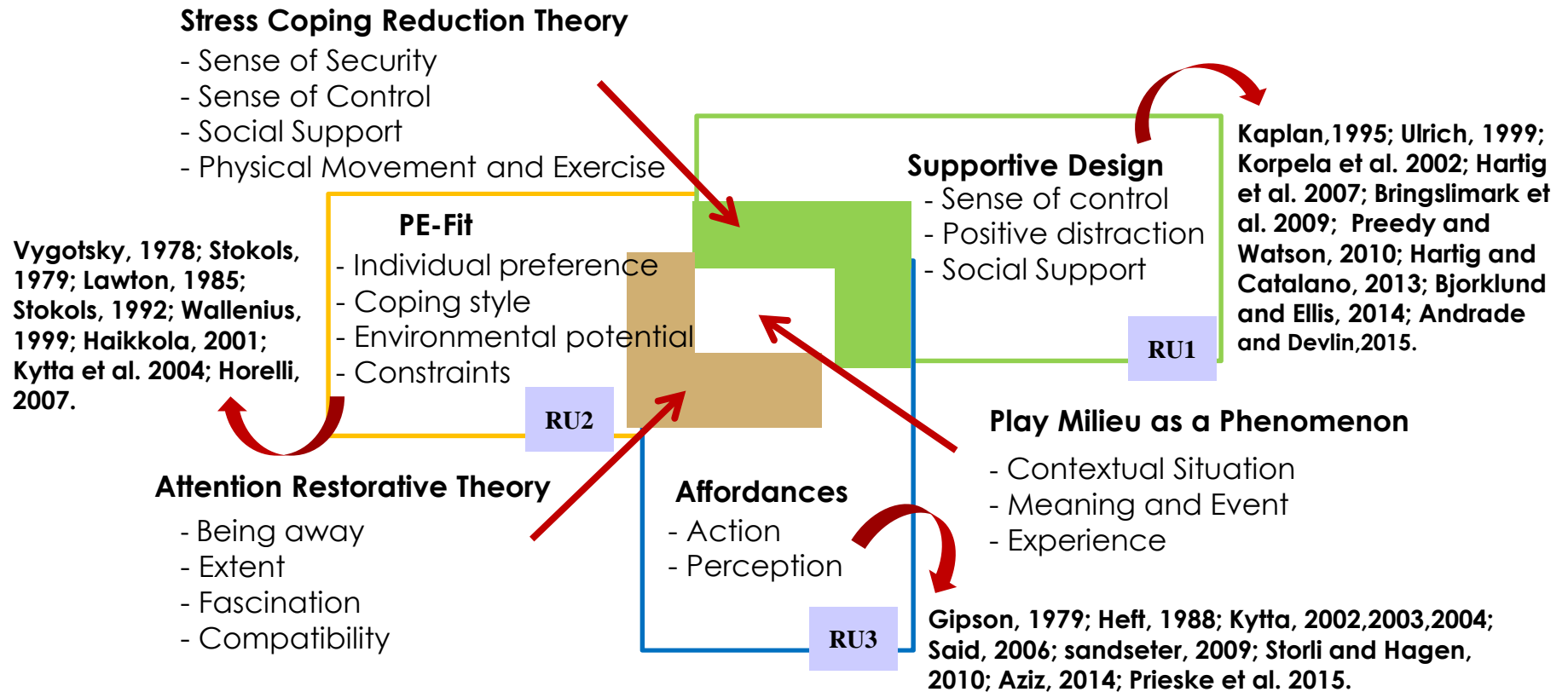
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Aim: To determine the restorative effect of a hospital ward space as a play milieu on stress reduction and functioning of hospitalized children

Main RQ	ASSUMPTION	RQs	ROs
How can a hospital ward space cum play influences children behaviour and functioning in Nigerian healthcare setting	To compensate for the features and situation, children ward transformed to a play milieu with loose items may encourages exploration and play behaviours.	What are the challenges faced by hospitalized children in the ward?	To explore the behavioural responses of children in hospital wards without intervention to sustain their interest;
		How can the ward as a play milieu influences children functioning and restoration?	To identify the shift in children's behaviour after experiencing the hospital ward as a play milieu; and
		What are the perception and preference of children, their caregivers on the use of loose play items ?	To examine the perception of children and their caregivers on the use of the hospital ward as play milieu.

Research Underpinnings

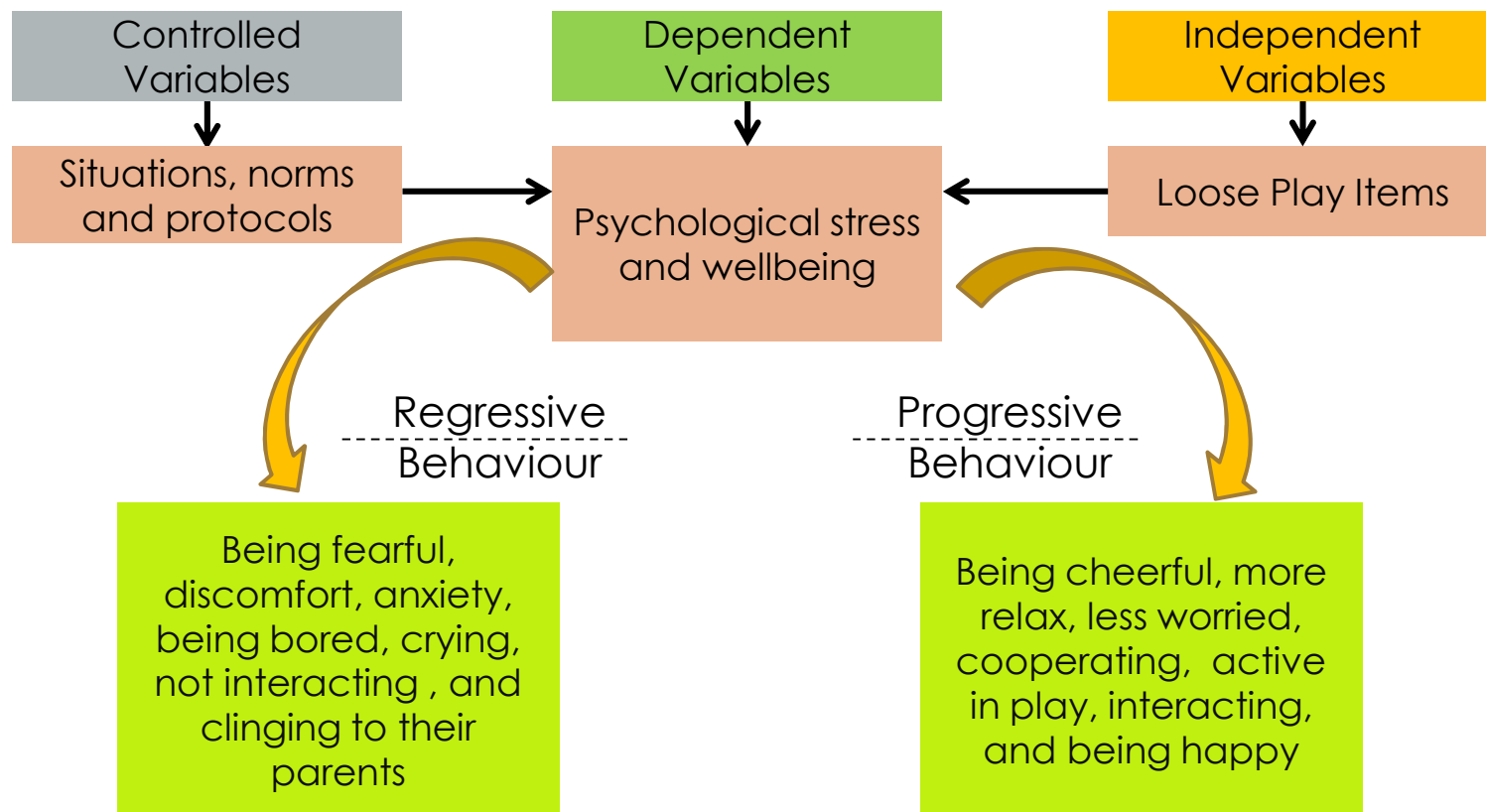
In architecture space is a 3-dimensional setting, but to children space is a social setting: Pragmatist phenomenology serve as the underpinning, theoretical framework and methodological rubric.



Variables of the Study

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Variables leads towards understanding the path in achieving Research Aim and Objectives (Simo-Pinatella et al., 2013).



Research Methodology

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Research Design

Exploratory
Research

Social Ecological
Transaction; A Pragmatist
Phenomenology Approach

Mixed methods design
(Concurrent nested strategy)
(Concurrent triangulation strategy)

Qualitative
(Main method)

Quantitative
(Supportive method)

Children and Caregivers
(Research protocol and ethical clearance)

Data analysis and triangulation

Findings

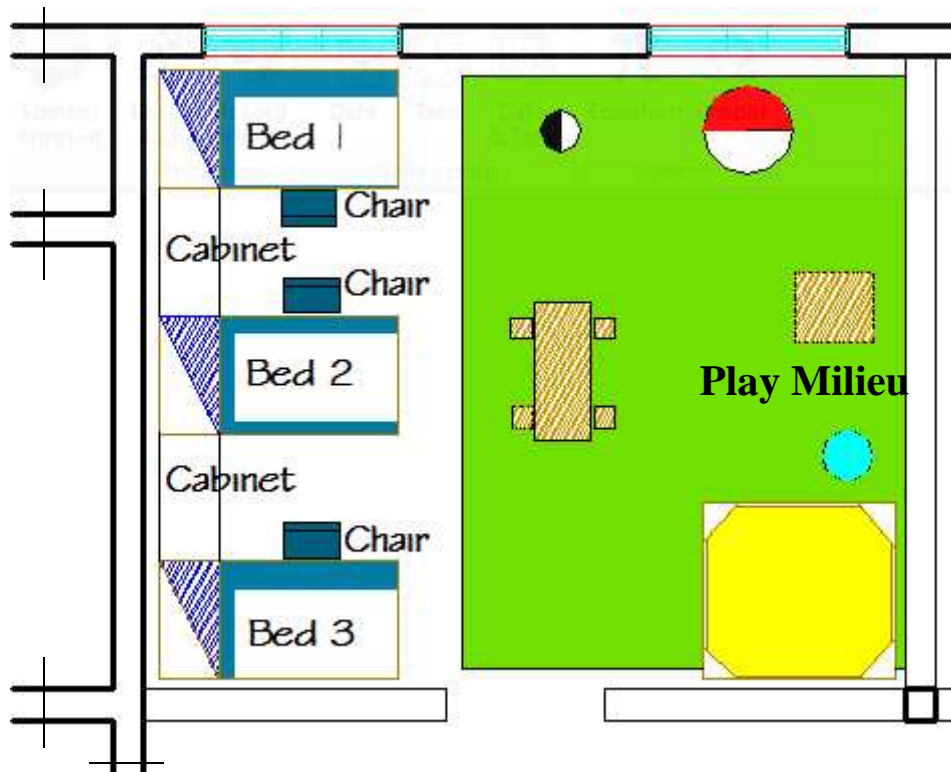
Measurement Strategies

STRATEGY	RESPONDENT	OBJECTIVE
1. Video recording	Children (n=17)	1
2. Photography		2
3. Drawing	Children (n=04)	3
4. AHP Questionnaire	Caregivers (n=25)	1
5. Interview		2
		3

Children Ward (After)

Abubakar Tafawa Balewa University Teaching Hospital, Bauchi

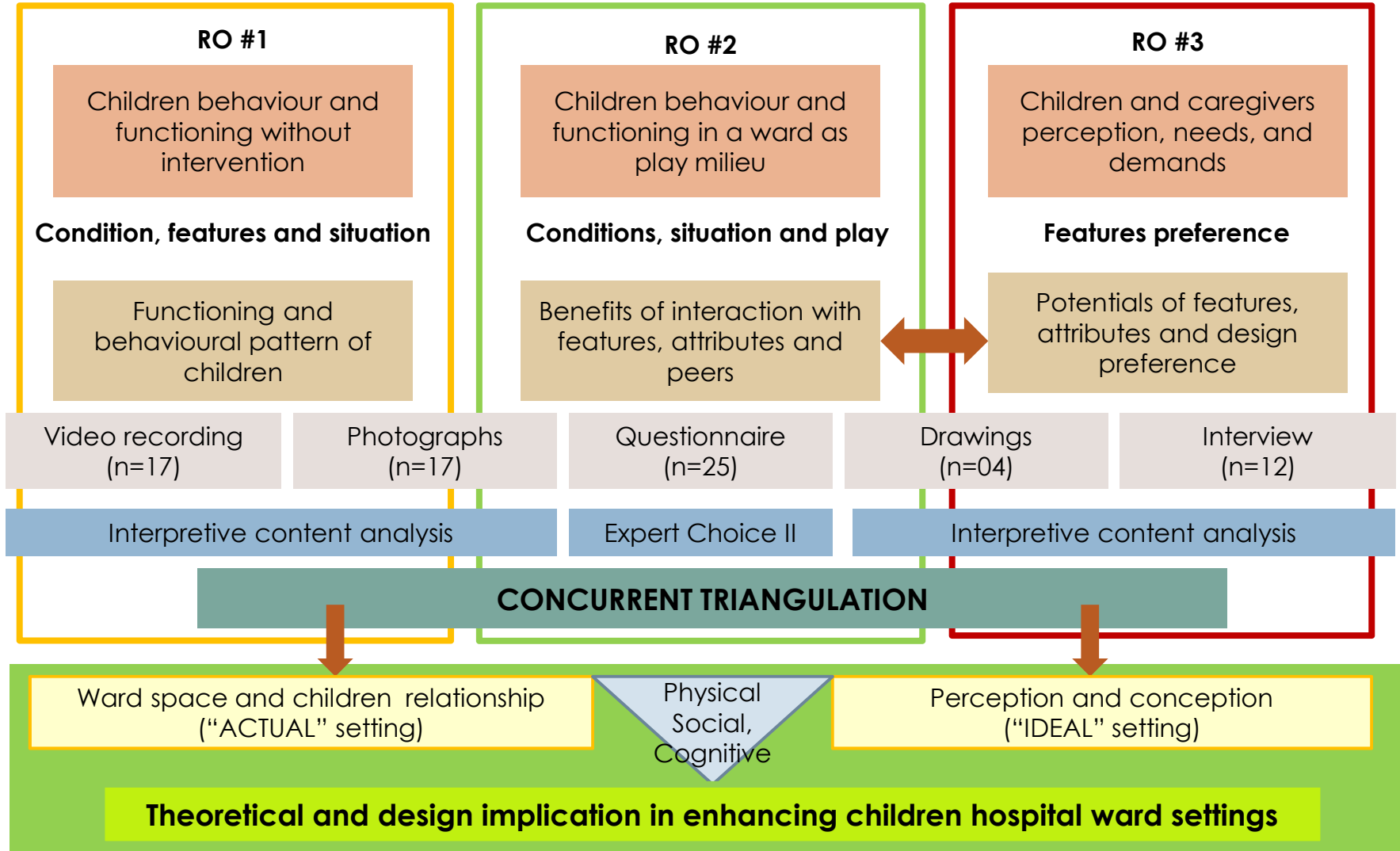
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- Natural and man-made features; sandbox, water, stones, wooden and plastic blocks, writing, colouring and cutting materials and so forth.

Analysis, Parameters and Implication

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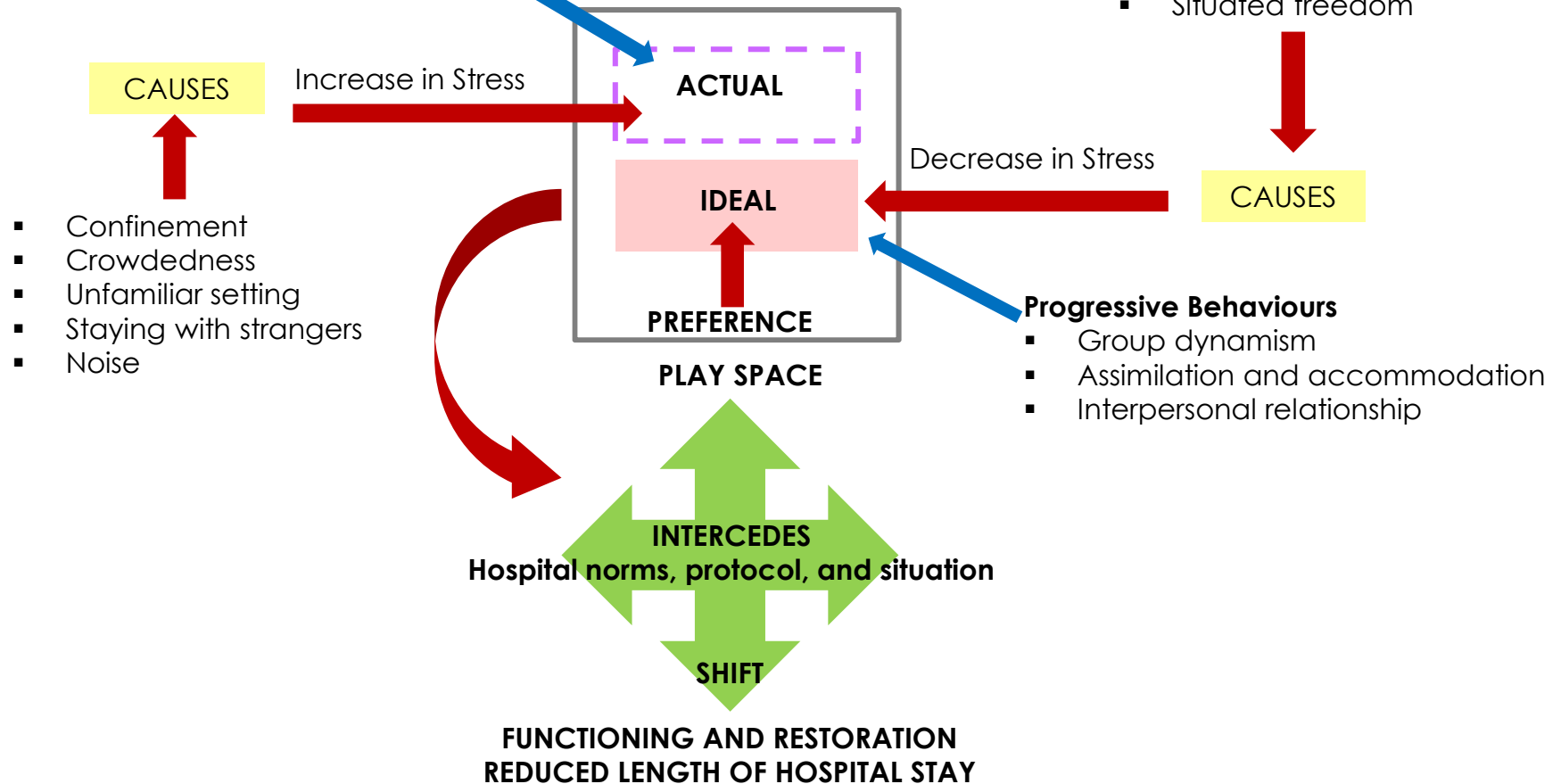
Research Findings

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Regressive Behaviours

- Thumb sucking
- Open mouth and nodding
- Frowning and avoiding eye contact

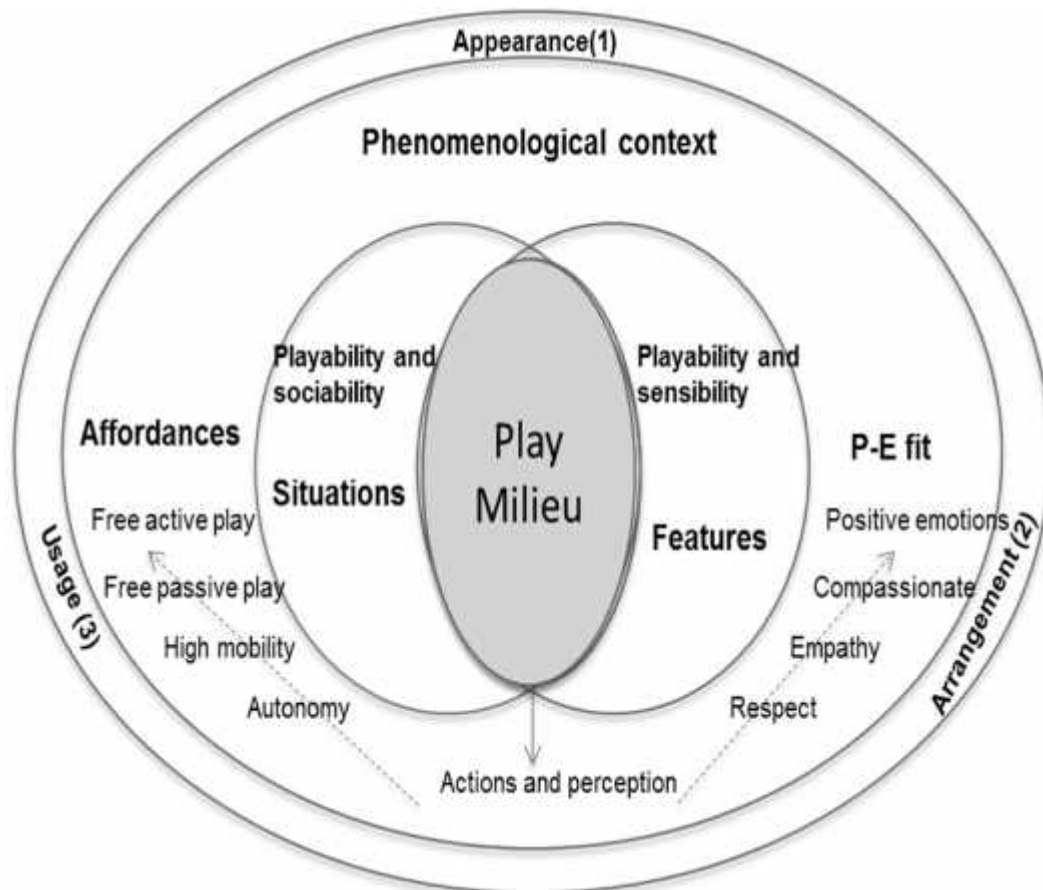
- Play milieu
- Adequate space
- Sense of familiarity
- Situated freedom



Conclusion and Implications

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The ward is a play space to the children, a setting that gives them a place of their own.



The Model of Child-Environment Transactional Process

Theoretical Implication

Appearance:

Setting should consist of fit and affordance

Arrangement:

Practical clarity for stream of play activities

Usage:

Level of affordances

Design Implication

Space definition

Order

Aesthetic

Features

Contributions of Research

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The research has expanded our understanding regarding :

- The **transactional relationship** between children and their hospital setting.
 - The importance of the **play milieu** on children's functioning and restoration.
 - Recognising and valuing **children's preference** about their settings.
- Finally, the finding is consistent with the general comment number 17 (2013) of the United Nation Convention on the Right of Child to rest, leisure, play, recreation, cultural life and the arts.



Recommendations

- Future research may look at **the potentials of using the loose play items for children of different age group in palliative and hospice care.**
- An experimental study is needed for future research to investigate children ward setting as a play milieu using same play items, features and attributes to understand hospitalized children **physiological indices that involves measuring their blood pressure, pulse rate, and respiratory rate** (control and experiment group).
- Future research can **test the model of children's everyday functioning in an outdoor hospital setting using the four aspect of the practical and designing characteristics** in determining the level of child functioning and stress reduction.

Publications

INDEXED JOURNALS

1. Usman Bukar Wakawa and Ismail Said (2014). Natural Play Materials as Motivation for Health Restoration
in Paediatric Ward of Nigerian Hospital: Advanced Material Research Vol. 988 (2014) pp 407-410

CONFERENCE PROCEEDINGS

2. Usman Bukar Wakawa and Ismail Said (2014). Play Intervention in Hospital Ward Towards Recovery of
Hospitalized Children: International Alliance for Sustainable Urbanization and Regeneration (IASUR),
Kashiwa Japan 10-3

PUBLICATIONS IN VIEW (Journal of Paediatric Nursing)

1. Usman Bukar Wakawa and Ismail Said (2015). **Affordance Based Architectural Approach with Loose Play Items for Children Restoration in Nigerian Paediatric Settings**
2. Usman Bukar Wakawa and Ismail Said (2015). **Illness behaviour of hospitalized children in an ideal ward setting**

NAGODE

(nah-GWO-day)

