

Introduction to Engineering Design

Find problems that may arise in NPU for patient with mental illness

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CONTENTS

What is the NPU?

NPU : Negative-Pressure-Unit

A special isolation ward that artificially lowers the air pressure inside the hospital to prevent the pathogen from spreading outside.



How to elicit the opinion

1

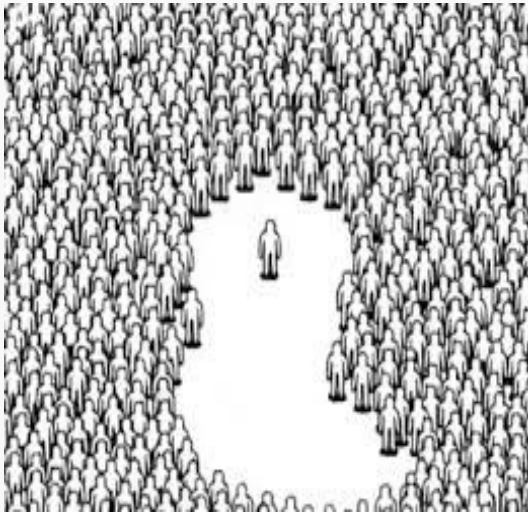
Characteristics of sound pressure rooms.

2

Necessary for mentally ill patients

01 The effect of NPU on patients.

Bad Effect for Patient



The patient feels isolated.

Bad Effect for Patient



The patient feels left out.

Bad Effect for Patient



The patient feels anxious.

02 Group therapy and activities are restricted.

Therapy Restricted



There is a setback in treatment.

Therapy Restricted



Play therapy is restricted.

03 It can be dangerous when the patient is alone.

It can be dangerous



The patient needs a nurse.

It can be dangerous



Protection suits and disinfection procedures are required.

04 Hard to get in and out to NPU

Additional cost incurred



Additional costs related to protective clothing can be incurred.

Additional cost incurred



It's impossible to recycle.

Evaluating Priorities

1. The effect of NPU on patients.

강현빈 : 2 > 1 > 3 > 4

2. Group therapy and activities are restricted.

강희영 : 3 > 1 > 2 > 4

3. It can be dangerous when the patient is alone.

박민준 : 2 > 3 > 1 > 4

4. Hard to get in and out to NPU

장준혁 : 1 > 3 > 4 > 2

Evaluating Priorities

<div>Win</div> <div>Lose</div>	①	②	③	④	Win
①		1+1	1+1	1+1+1+1	8
②	1+1		1+1	1+1+1	7
③	1+1	1+1		1+1+1+1	8
④	X	1	X		1
Lose	4	5	4	11	

Result : 1 = 3 > 2 > 4

Questions for 10/29

- 1. How can family member visit NPU patients?**
- 2. Are negative pressure masks used in Korea?**

-Group 2-

Thank you