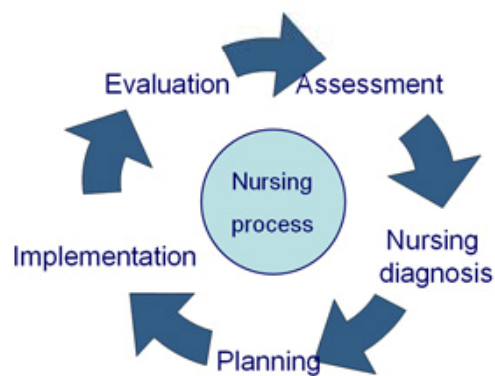


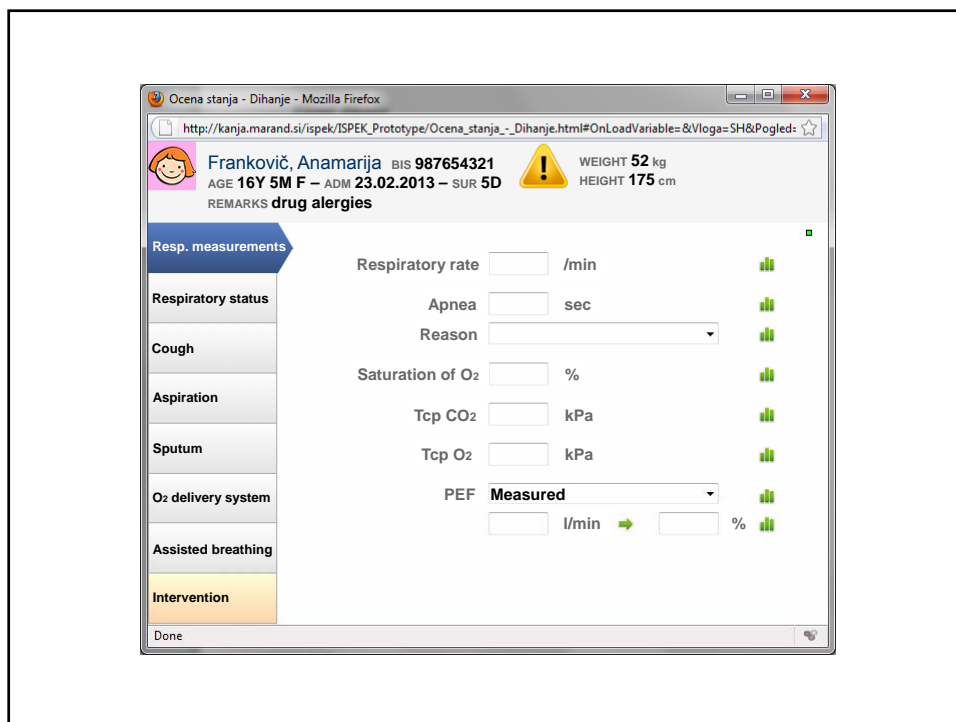
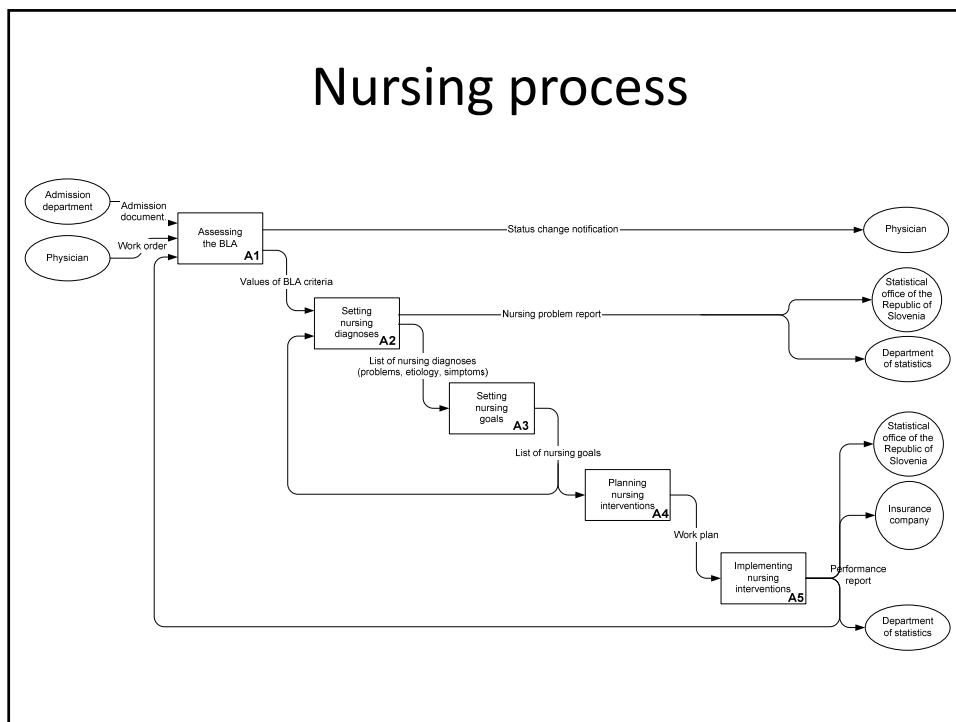
## Application of qualitative multi-attribute decision model for patient's status evaluation

assist. prof. Uroš Rajkovič, PhD  
assoc. prof. Olga Šušteršič, PhD, RN  
prof. emer. Vladislav Rajkovič, PhD

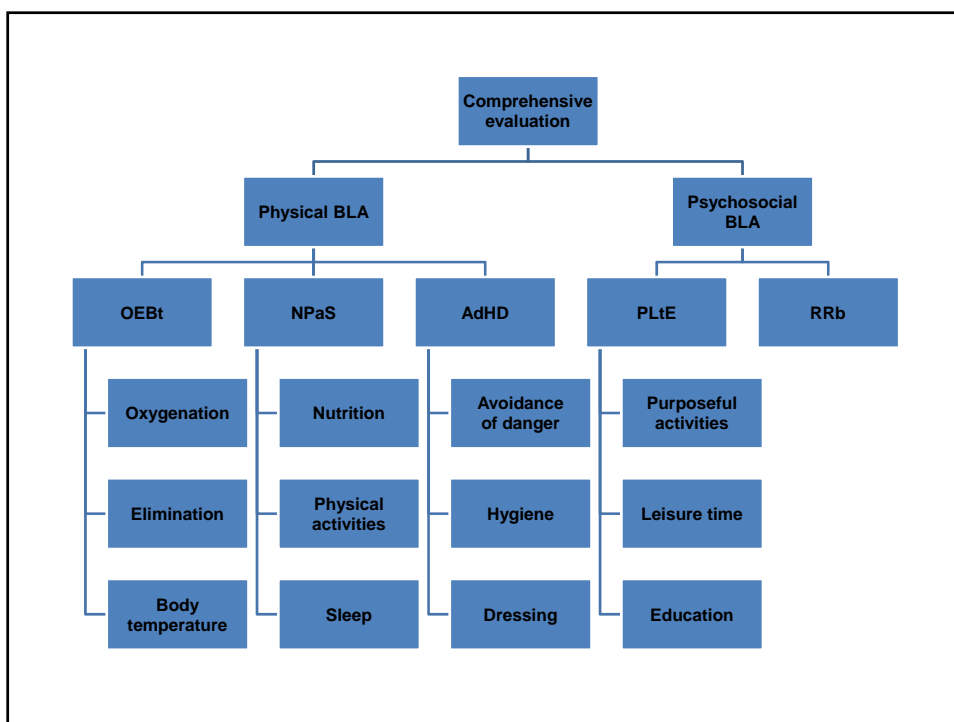
Slovenia

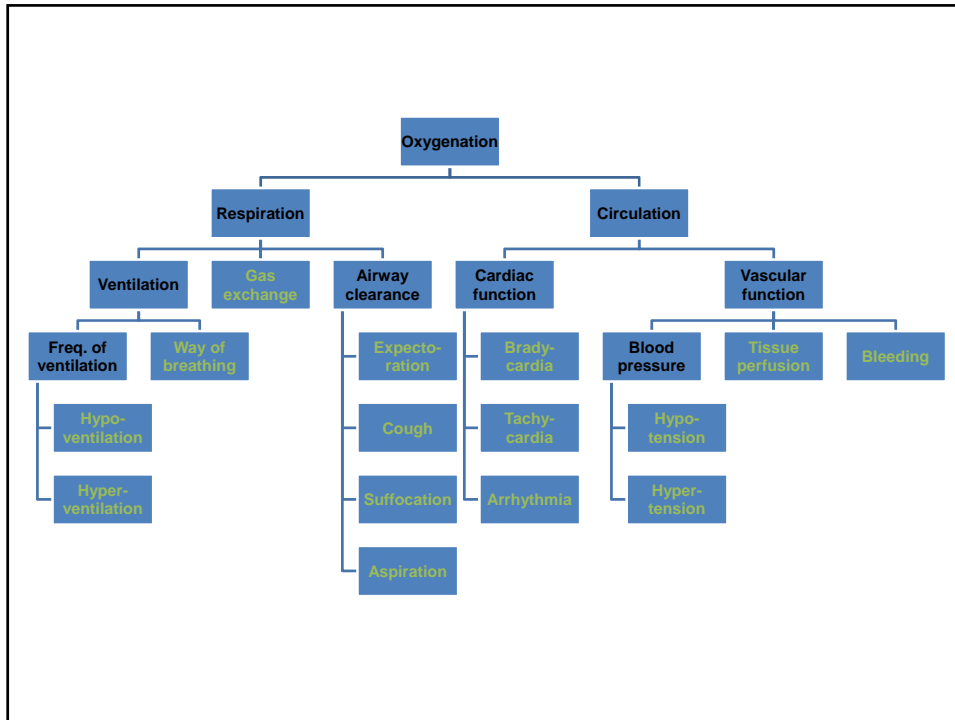
## Nursing process





<b>COMPREHENSIVE EVALUATION</b>	Evaluation of all basic living activities
<b>PHYSICAL BLA</b>	BLA concerning physical patient's condition
<b>OEBt</b>	Oxygenation, Elimination, Body temp.
<b>OXYGENATION</b>	Mechanical inhalation and exhalation of air, circulation
<b>ELIMINATION</b>	Movement & elimination of waste
<b>BODY TEMPERATURE</b>	The temperature of the body
<b>NPaS</b>	Nutrition and hydration, Physical activity, Sleep, Rest
<b>NUTRITION</b>	Nutrition and hydration
<b>PHYSICAL ACTIV.</b>	Ability of body movement
<b>SLEEP</b>	Sleep, restoration and rest
<b>AdHD</b>	Avoidance of danger, hygiene and tidiness, dressing
<b>AVOIDANCE of DANG.</b>	Physical, psychology and social security
<b>HYGIENE</b>	Tidiness and hygiene of body
<b>DRESSING</b>	Dressing and undressing
<b>PSYCHOSOCIAL BLA</b>	BLA concerning psycho-social patient's condition
<b>RRb</b>	Relationship with people, communication, relig. beliefs
<b>PLtE</b>	Purposeful activities, Leisure time and Health educ.
<b>PURPOSEFUL ACTIV.</b>	Harmonisation of work and recreation
<b>LEISURE TIME</b>	Useful use of time
<b>EDUCATION</b>	Health education





	Value	Description	Class
1.	vhd	to a very high degree	<b>BAD</b>
2.	hd	to a high degree	
3.	sd	to some degree	
4.	ld	to a lesser degree	
5.	no	no problem	<b>GOOD</b>

# Comprehensive Evaluation

Nursing anagnosis | Nursing assessment | **Planning** | Performing

Initial assessment

- Pressure ulcer
- Ulcer
- Other changes
- Surgical wound
- Traumatic wound
- Hygiene of upper extremity
- Hygiene of lower extremity
- Hygiene of mouth
- Hygiene of hair
- 2 Hygiene of scalp
- Hygiene of other head parts
- Hygiene of back
- Hygiene of chest
- Hygiene of abdomen
- 3 Hygiene of anal-genital part
- 2 Hygiene of other parts of trunk
- 2 Selfcare**
- Hygiene of environment

Dressing

Tree title: Initial assessment

Save

Evaluation | Comparison | History

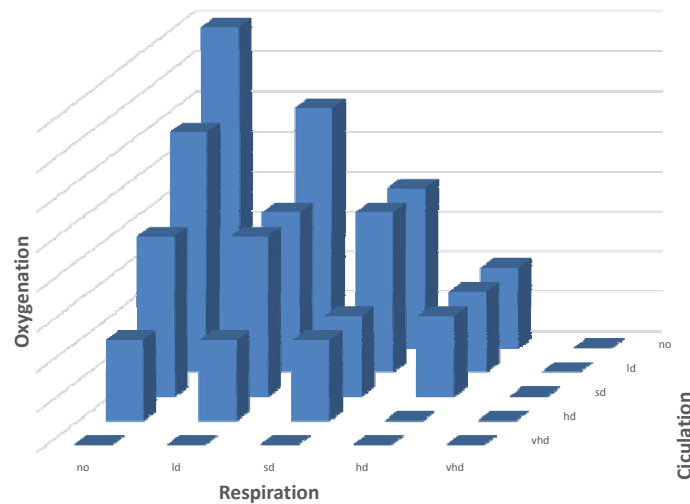
**Hygiene selfcare**

value: needs help

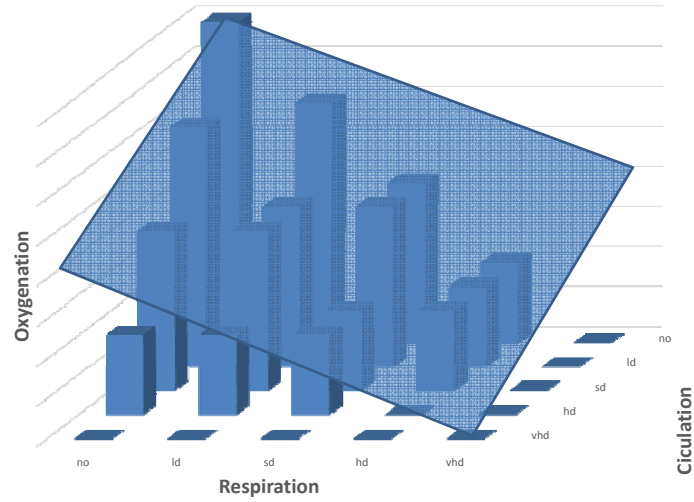
degree of problem:

- 5** to a very high degree
- 4** to a high degree
- 3** to some degree
- 2** to a lesser degree
- 1** no problem

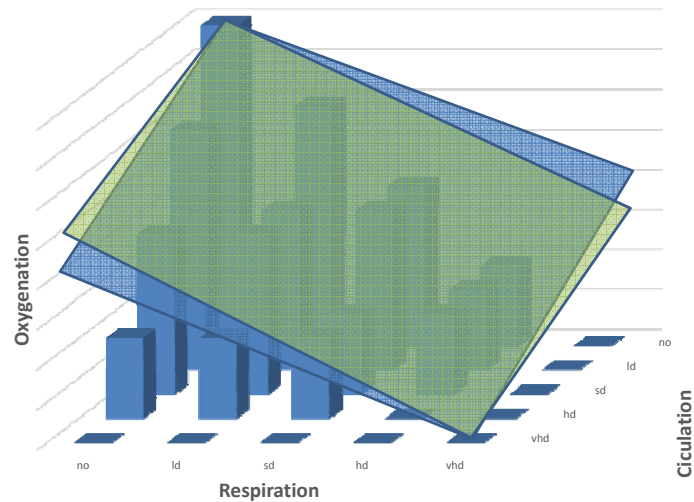
# Multi-attribute utility function

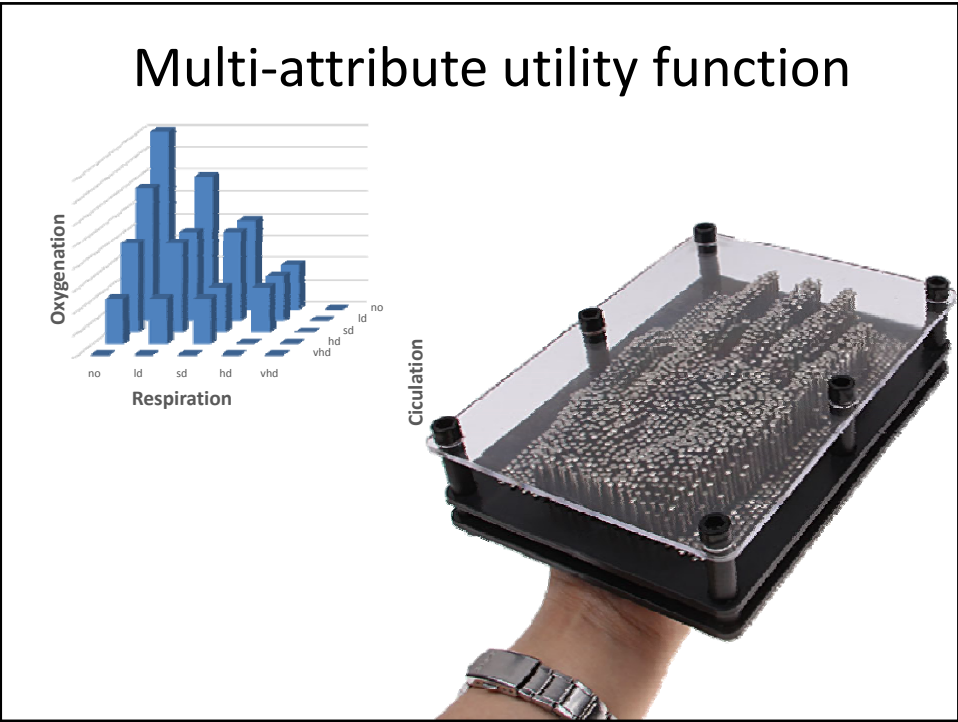


## Multi-attribute utility function



## Multi-attribute utility function

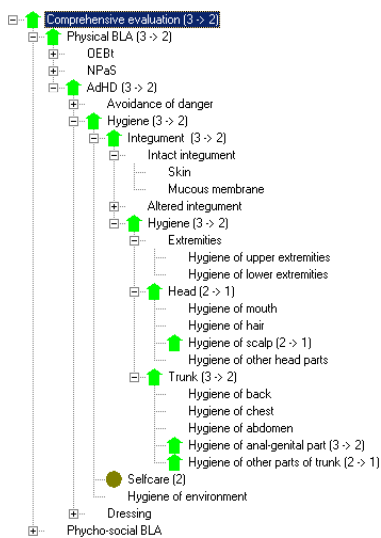




	Assesment:	1st	2nd	3rd
<b>Oxygenation</b>		vhd	hd	sd
├─Respiration		vhd	hd	sd
│ ├─Ventilation		vhd	hd	sd
│ │ ├─Vent.Frequency		vhd	hd	sd
│ │ │ ├─Hyperventilation		vhd	hd	sd
│ │ │ └─Hypoventilation		no	no	no
│ │ └─Way of breathing		ld	ld	ld
└─Gas exchange		no	no	no
├─Airway clearanc		sd	ld	ld
│ ├─Expectoration		no	no	no
│ └─Cough		sd	ld	ld
├─Suffocation		no	no	no
└─Aspiration		no	no	no
├─Circulation		hd	sd	ld
│ ├─Cardiac funct.		sd	ld	ld
│ │ ├─Bradycardia		sd	ld	ld
│ │ └─Tachycardia		no	no	no
│ └─Arrhythmia		ld	ld	ld
└─Vascular funct.		sd	ld	no
│ ├─Blood pressure		sd	ld	no
│ │ ├─Hypertension		no	no	no
│ │ └─Hypotension		sd	ld	no
└─Tissue perfusion		no	no	no
├─Bleeding		no	no	no

	Assessment: 1st			2nd			3rd		
<b>Oxygenation</b>	vhd	▲	hd	▲	sd				
Respiration	vhd	▲	hd	▲	sd				
Ventilation	vhd	▲	hd	▲	sd				
Vent. Frequency	vhd	▲	hd	▲	sd				
Hyperventilation	vhd	▲	hd	▲	sd				
Hypoventilation	no	●	no	●	no				
Way of breathing	ld	●	ld	●	ld				
Gas exchange	no	●	no	●	no				
Airway clearance	sd	▲	ld	●	ld				
Expectoration	no	●	no	●	no				
Cough	sd	▲	ld	●	ld				
Suffocation	no	●	no	●	no				
Aspiration	no	●	no	●	no				
Circulation	hd	▲	sd	▲	ld				
Cardiac funct.	sd	▲	ld	●	ld				
Bradycardia	sd	▲	ld	●	ld				
Tachycardia	no	●	no	●	no				
Arrhythmia	ld	●	ld	●	ld				
Vascular funct.	sd	▲	ld	▲	no				
Blood pressure	sd	▲	ld	▲	no				
Hypertension	no	●	no	●	no				
Hypotension	sd	▲	ld	▲	no				
Tissue perfusion	no	●	no	●	no				
Bleeding	no	●	no	●	no				

## Comparison of two assesments





## Explanation of overall assessment

