Development of information system for patients with cleft lip and palate undergoing operation

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Background

- Approximately 2.5 of every 1,000 children
- 100-150 cases of CL and CP /year
- Needs continuity of care, multidisciplinary team.
- feel they are in a life crisis, fear, anxiety and need to know details
- information is very important for patients/family
Background

Previous research:

- Patients and family received information 94%
- Patients satisfaction 92.48%
- Lost follow up 7.06%
- Wound Infection 0.41%
Nurses role: patients birth until end of Tx

- work continuously and closely
- knowledge, experience and ability to take excellent care
- prevent complications
- help decision process
- decrease parents stress and better cooperation
To develop the information system for patients with cleft lip-palate undergoing operation.
Methods

- an action research divided into 3 phases.

**Phase 1** Situation review
**Phase 2** Develop information system
**Phase 3** evaluation
Phase 1 Situation review:

- review the information provided by interview
  10 nurses were interviewed by semi-structured questionnaire

- what, when, how nurses are giving information for patients
- if have any problem about giving information
- how they think can solve the problems
Phase 1 Situation review:

- nursing care observation: observe nursing care from the day patients were admitted until discharge

- review nursing documents about information: nursing assessment, nursing care plan, nurses note and other record
2 focus groups, 5 nurses in each group to discuss about:
- what nurses can do to develop the system
- If anything more can be done

- guidelines
Phase 2: Develop information system

- Leaflet
- Teaching protocol
- Teaching record
# Teaching record

<table>
<thead>
<tr>
<th>Items</th>
<th>admitted</th>
<th>Op Day</th>
<th>P/O D1</th>
<th>P/O D2</th>
<th>D/C</th>
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Phase 3 evaluation:

After implementation we evaluate the information system by interview 61 parents of patients with cleft lip and palate using the structure interview. The data collection was obtained from July-Dec. 2012.
1. Demographic data:

- Register nurse, experience 3-13 years, average 5.7 years, age 24-35 years, average 27.30
- Bachelor of nursing.
- Parents of patients with cleft lip and palate: age 17-48 years old, average 27 years old. The parents’ education is primary school 92%.
## 2. Receiving information

<table>
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<th>Information</th>
<th>Not receive</th>
<th>Receive (%)</th>
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<tbody>
<tr>
<td></td>
<td>%</td>
<td>Understand</td>
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<td>1. Disease &amp; treatment</td>
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<td>2. Feeding</td>
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<td>3. Wound dressing</td>
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<td>4. Mouth care</td>
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<td>5. Pain management</td>
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<td>6. Medicine</td>
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<td>96.1</td>
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<td>7. Abnormal sign/symptom</td>
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<td>100</td>
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<tr>
<td>8. Date/time to follow up</td>
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3. Satisfaction: patients/parents satisfaction 94.9%

- No complication
- Care giver can take care of patients
- No wound infection in this period of time.
- 0% lost follow up
Conclusion

- Information is very important for parents and family to prepare them to face their situation and prevent complication.

- The information system development provides optimal care for patients and family, but needs to improve some techniques or tools to give some items of information and evaluate further the nursing outcome afterwards.
Acknowledgement

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Thank you