Nursing Language Integration in SNOMED CT®

Perioperative Nursing Data Set (PNDS)

North American Nursing Diagnosis Association

Nursing Interventions Classification (NIC)

NOC — OUTCOMES CLASSIFICATION
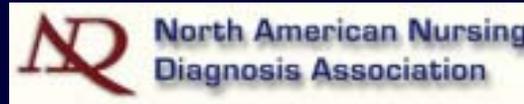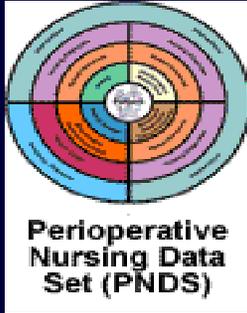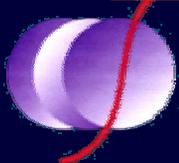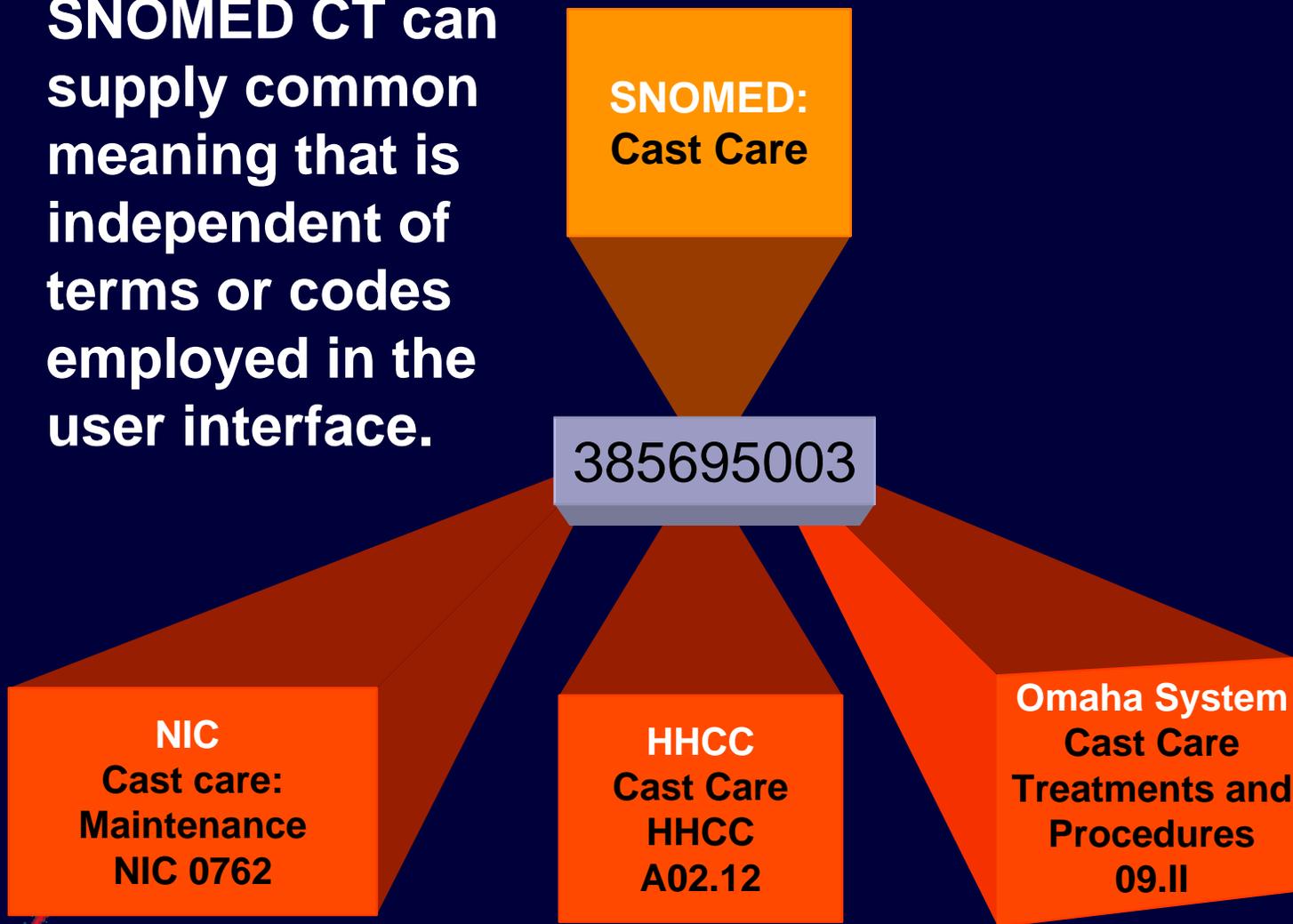

The Omaha System

Home Health Care Classification (HHCC) System

The integration of ANA recognized standardized nursing languages positions SNOMED CT as *the vehicle* for the aggregation of nursing data using the most widespread nursing terminologies used at the point of care.
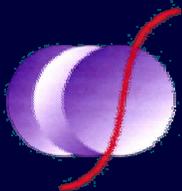
Nursing Convergence Example

SNOMED CT can supply common meaning that is independent of terms or codes employed in the user interface.

SNOMED:
Cast Care

385695003

NIC
Cast care:
Maintenance
NIC 0762

HHCC
Cast Care
HHCC
A02.12

Omaha System
Cast Care
**Treatments and**
Procedures
09.II

Nursing Concept Modeling Within SNOMED CT

- **Nursing diagnoses are modeled within the Clinical findings hierarchy**
  - NANDA, HHCC, Omaha System, PNDS

- **Nursing interventions are modeled within the Procedure hierarchy**
  - NIC, HHCC, Omaha System, PNDS

- **Nursing outcomes are modeled within the Observable entity hierarchy**
  - NOC, HHCC, Omaha System, PNDS
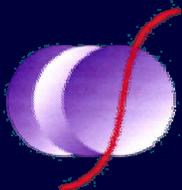
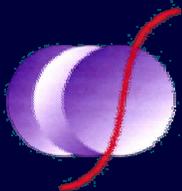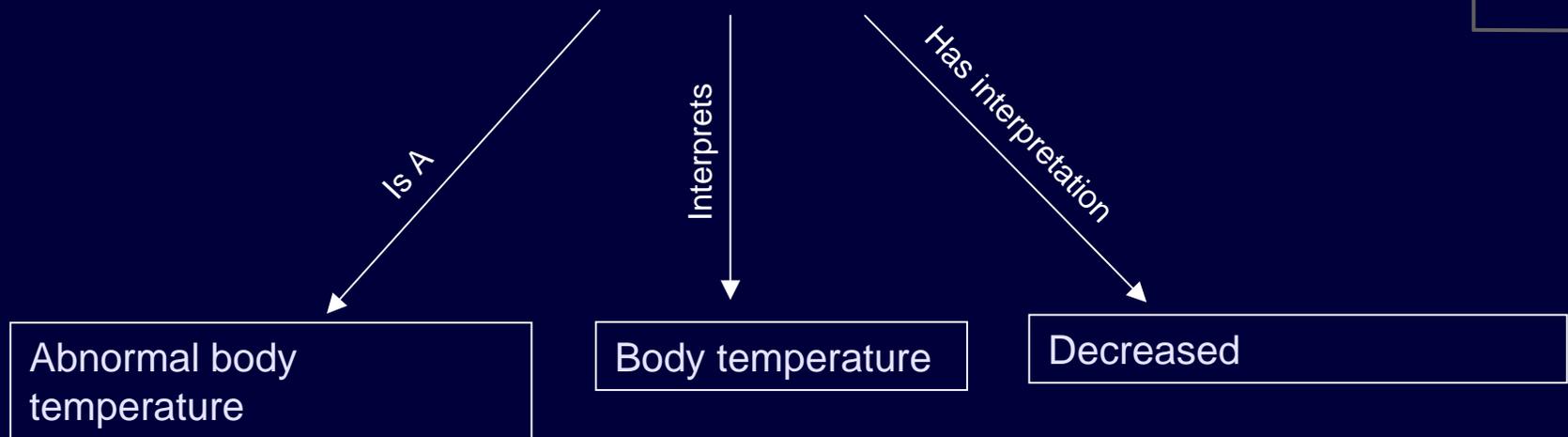# Underlying Principles for the Integration of Nursing Concepts

1. **A nursing concept may be identical to an existing SNOMED CT concept (Exact match)**

2. **A nursing concept may be a synonym of an existing SNOMED CT concept and is added as such**

3. **A nursing concept may be new**
   - These concepts are added as new, given a SNOMED CT code, modeled using current attributes, and given a specific IS_A relationship, placing it within the appropriate hierarchy
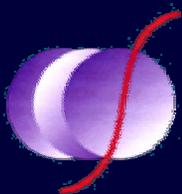
Nursing Diagnosis Example

1. A nursing concept may be identical to an existing SNOMED CT concept. (Exact match)

Hypothermia
(Clinical finding)

Is A → **Abnormal body temperature**

Interprets → **Body temperature**
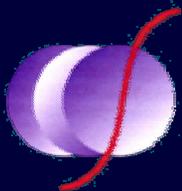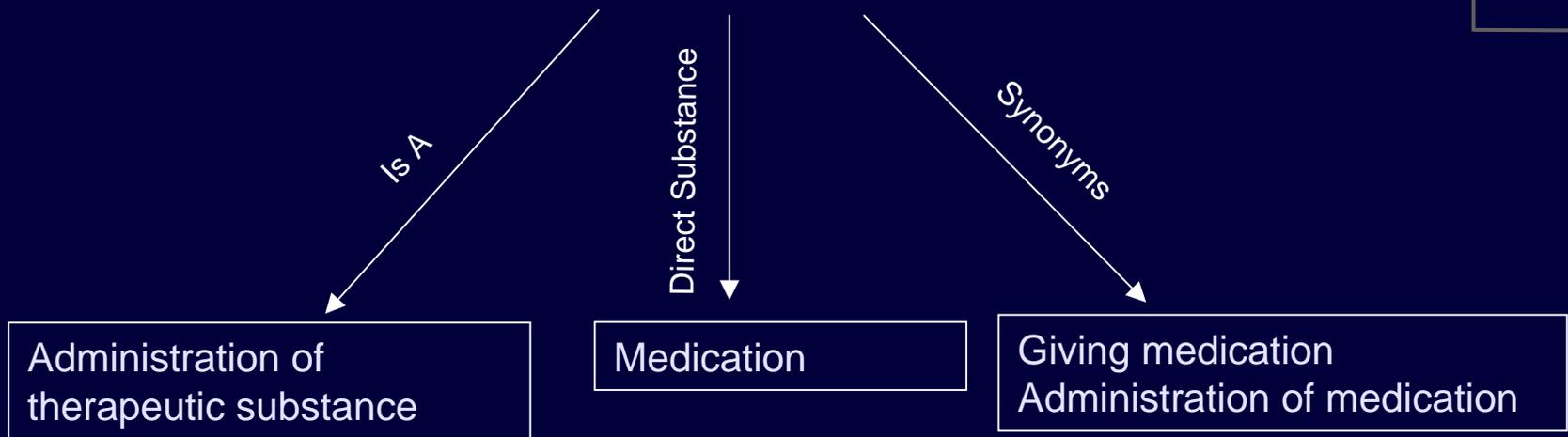
Has interpretation → **Decreased**

(NANDA 00006   PNDS X26   HHCC K25.3)

Nursing Intervention Example

2. A nursing concept may be a synonym of an existing SNOMED CT concept and is added as such.
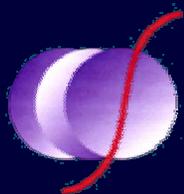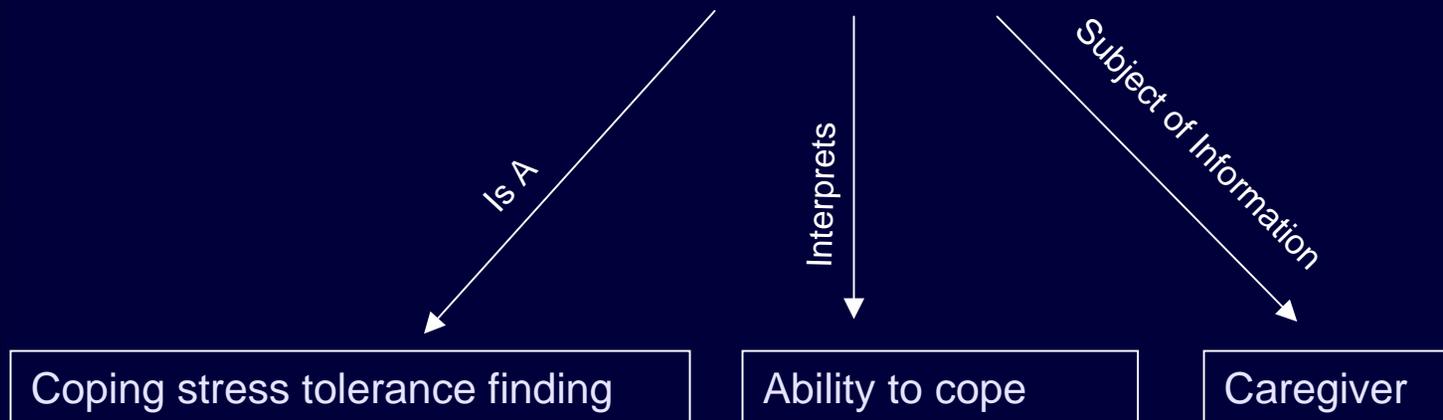
Medication Administration (Procedure)

Is A → Administration of therapeutic substance

Direct Substance → Medication

Synonyms → Giving medication / Administration of medication

(NIC 2300   Omaha System 33.II   HHCC H24.02)

Nursing Diagnosis Example
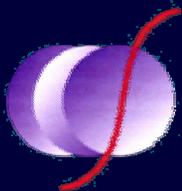## 3. A nursing concept may be new.

Caregiver Role Strain
(Clinical finding)

Is A → Coping stress tolerance finding

Interprets → Ability to cope

Subject of Information → Caregiver

(NANDA 00073   PNDS X9)

Nursing Outcome Example

**Knowledge Level:
Fall Prevention
(Observable entity)**

Is A

Synonym

Knowledge level

Knowledge: Fall prevention

(NOC 1828)