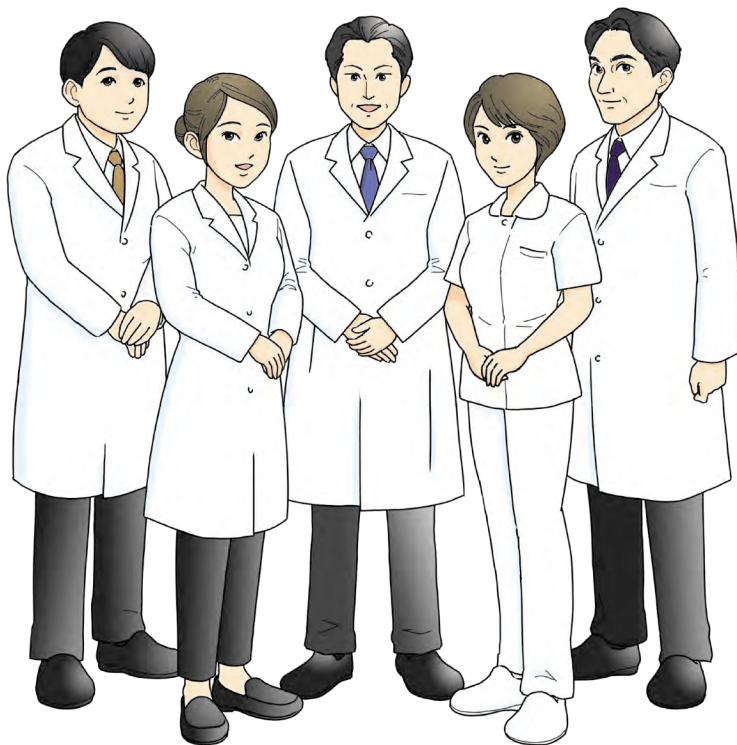
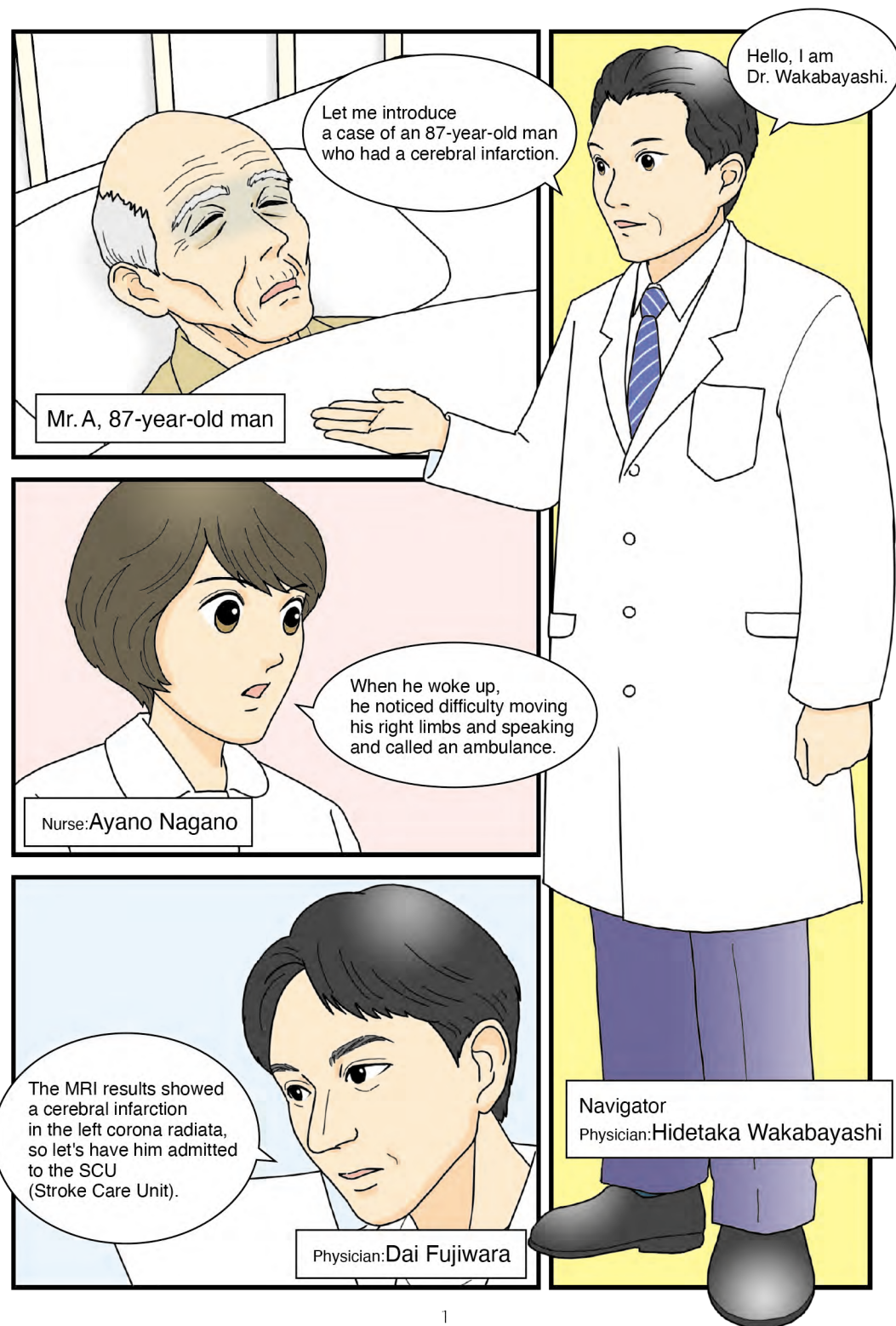
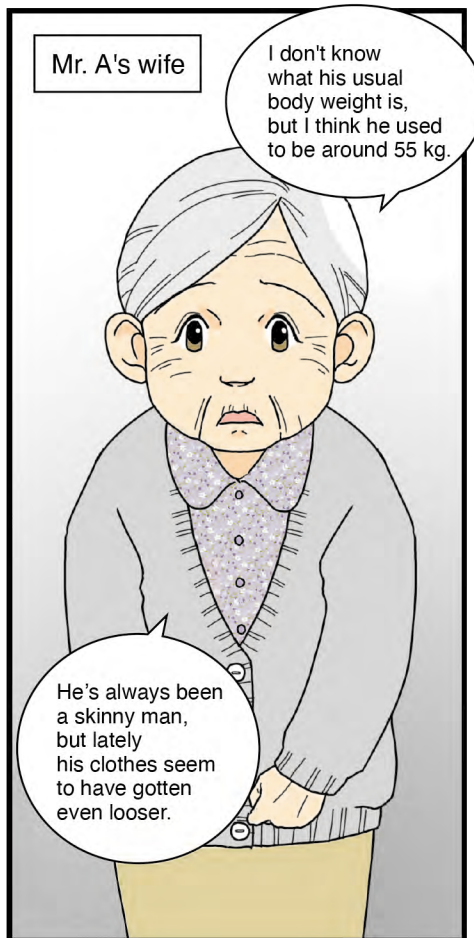
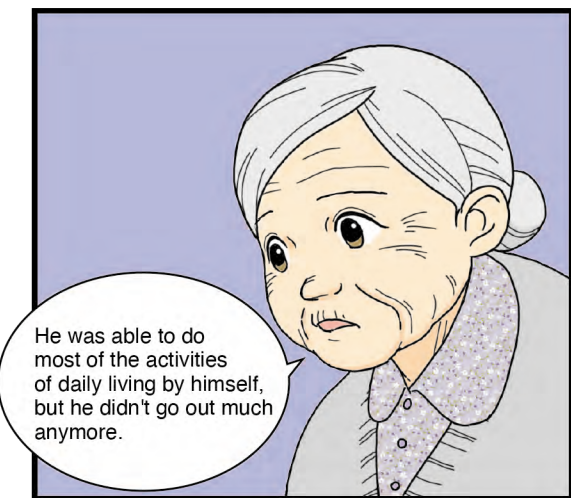
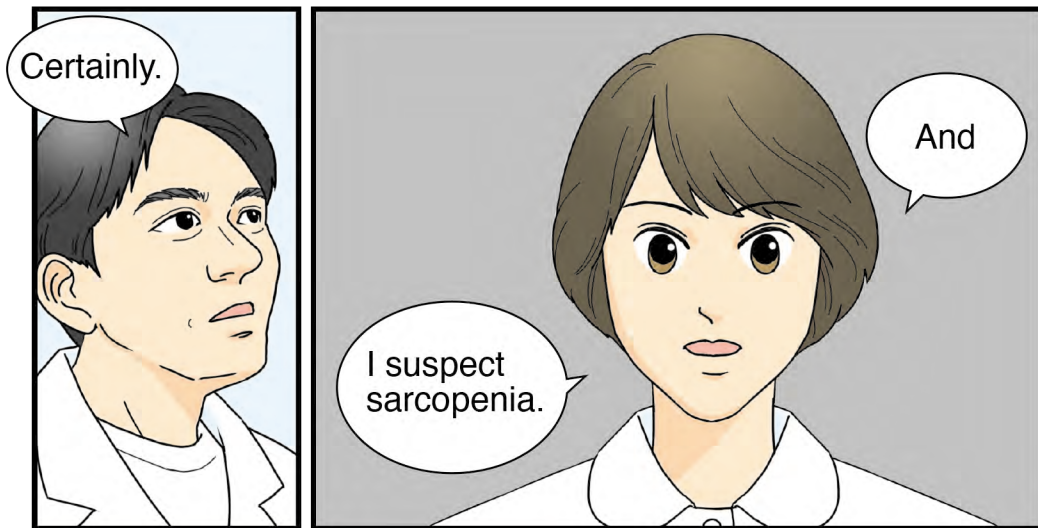


Rehabilitation Nutrition in comic book

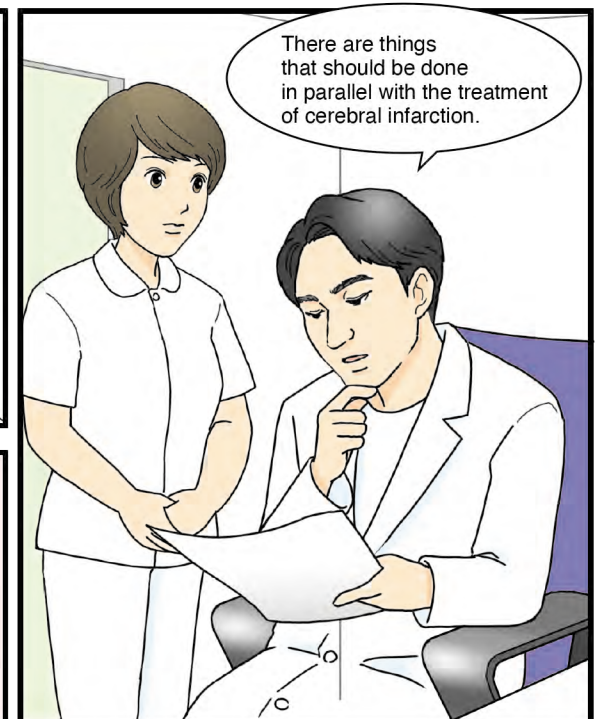
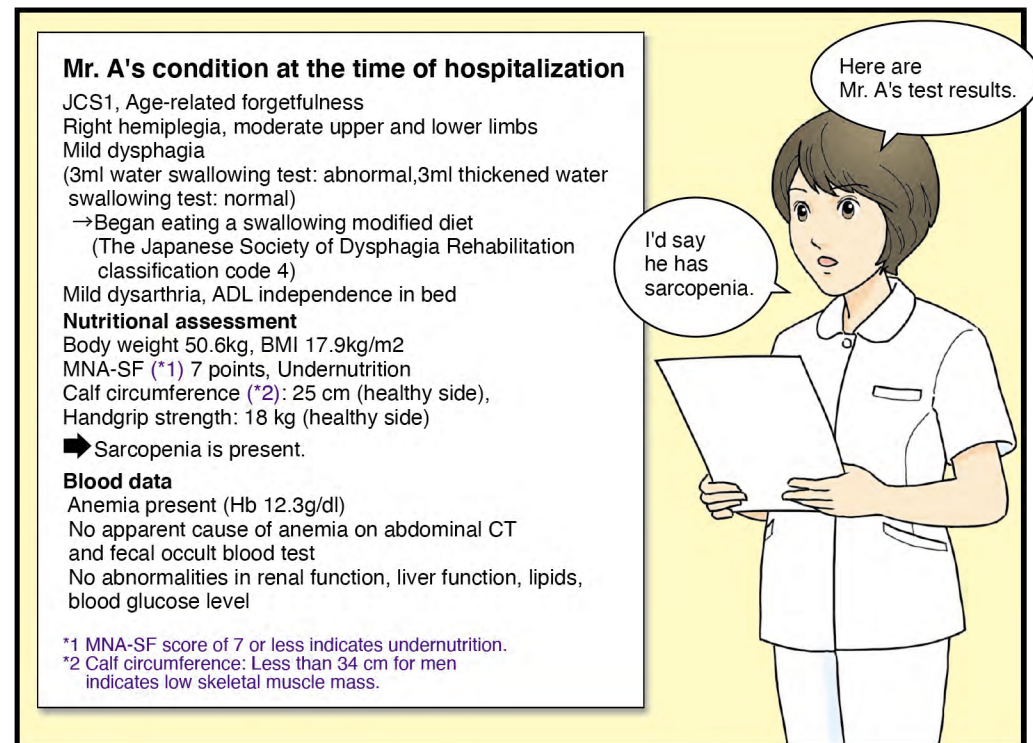
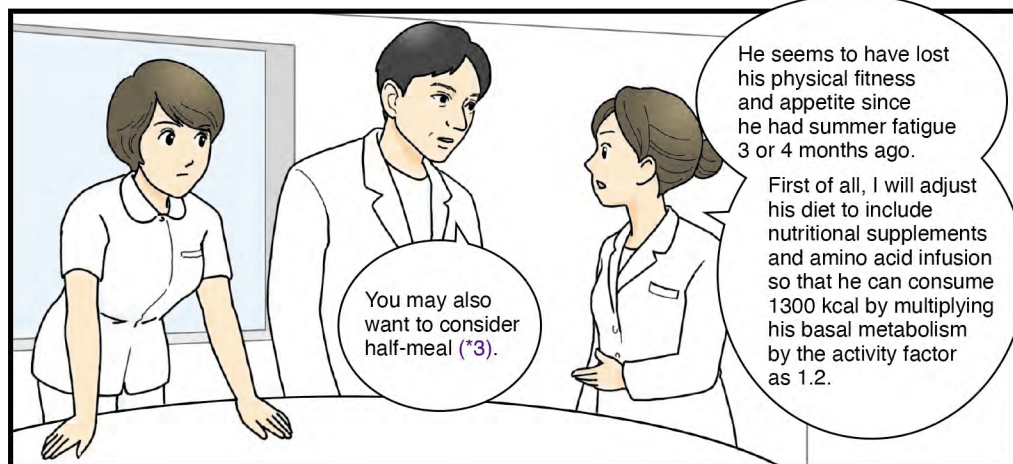
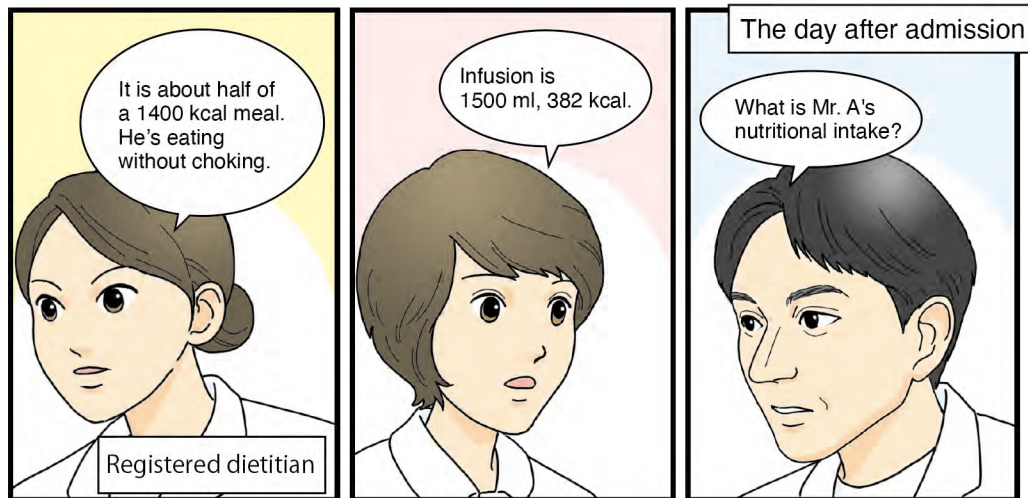
Vol.1 Acute care hospital edition

# From “Can't” to “Can” with Rehabilitation Nutrition









\*3 Half-meal: Meal that has been adjusted to be easier to eat by reducing the serving size by half.  
 ※ Climeal is an oral nutrition supplement that provides 200kcal of energy, 7.5g of protein and various other nutrients.





One week after hospitalization

#### Nutrition

- Increase rehabilitation load + set energy by adding energy accumulation
- Meal 1700kcal (iron-fortified) + 100kcal of Reha-Time-Jelly at 15:00
- End of infusion
- Nutritional counselling to him and his wife

#### Rehabilitation

- Gradually increase load including resistance training
- Physiotherapy before 15:00 as much as possible

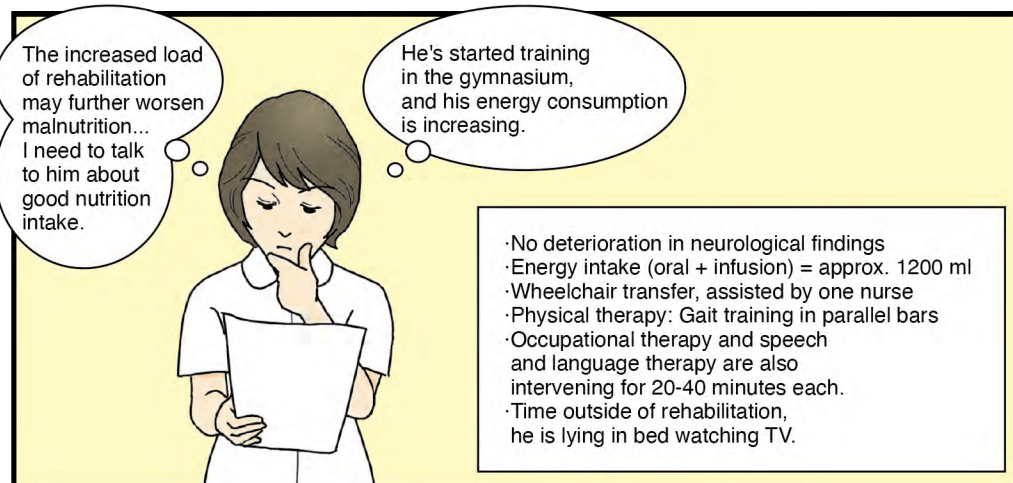
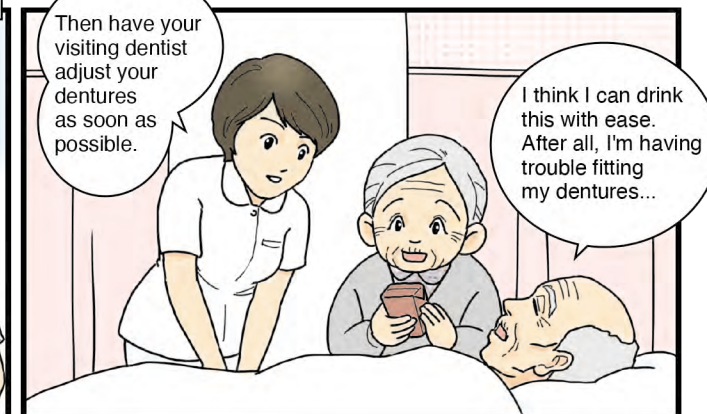
#### Nursing: Increased activities in the ward

- Round the ward twice on the way back from the toilet
- Start with 3 sets of 10 repetitions of chair-stand exercise

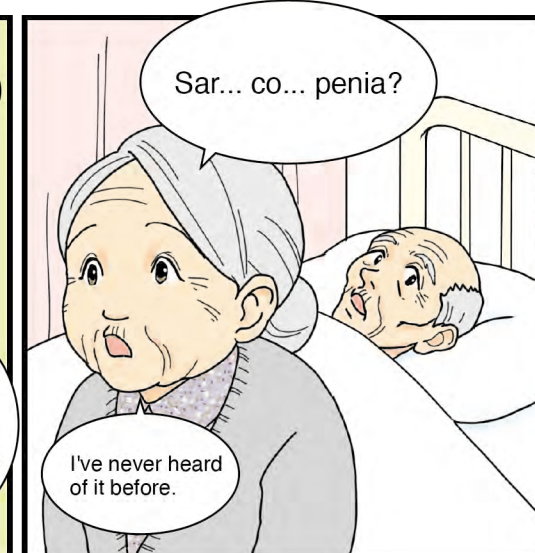
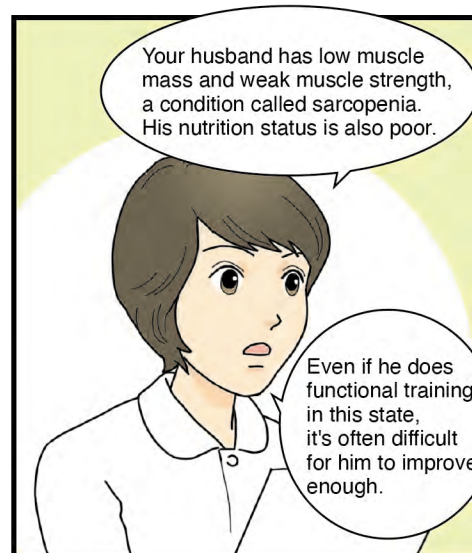
I need to strengthen his nutrition intake as well as his rehabilitation...



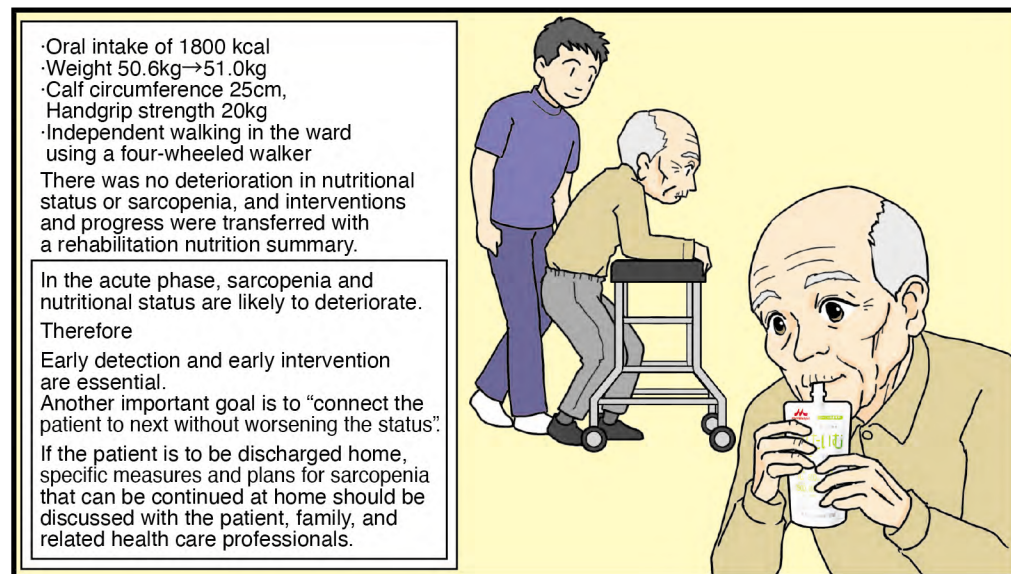
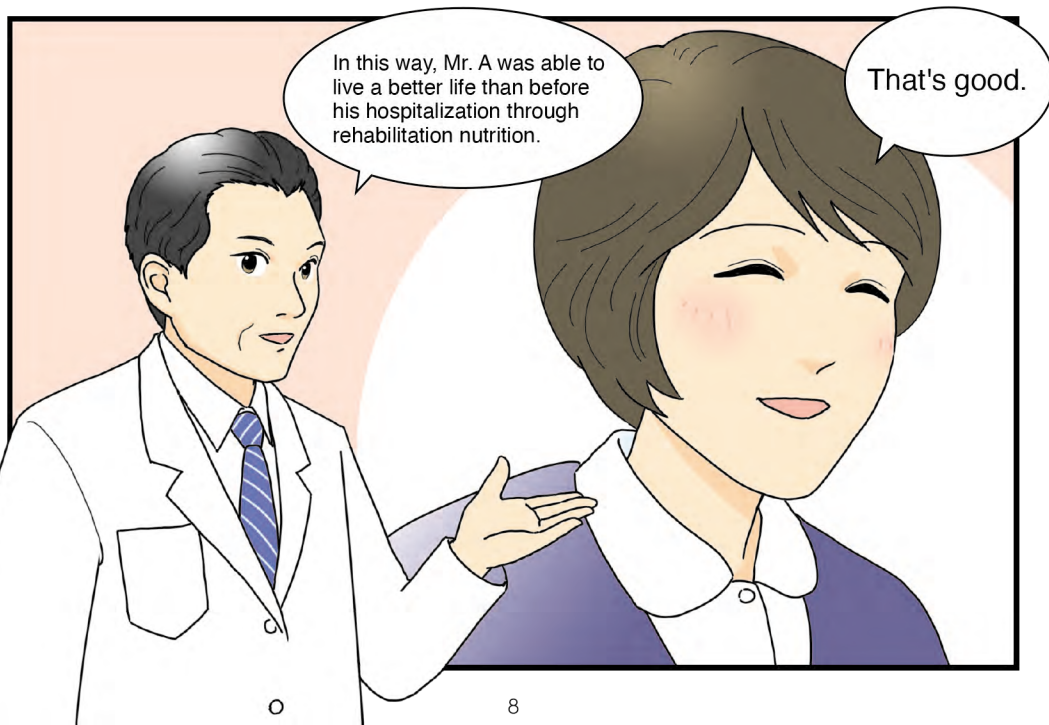
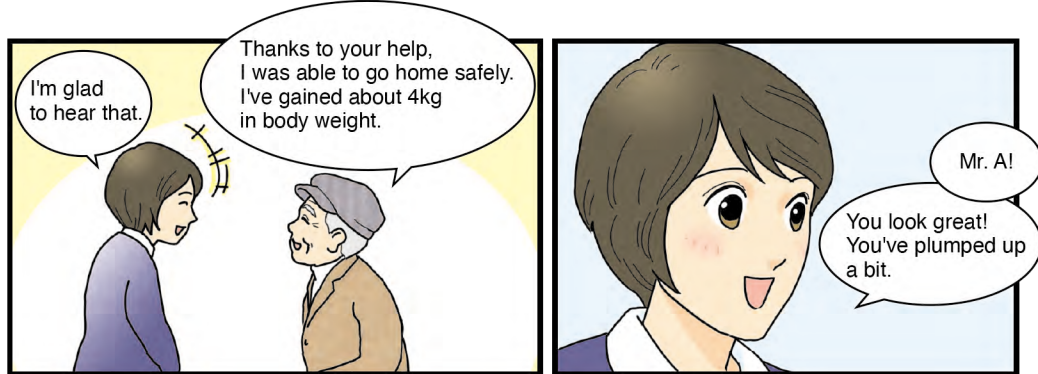
Day 4 of hospitalization



- No deterioration in neurological findings
- Energy intake (oral + infusion) = approx. 1200 ml
- Wheelchair transfer, assisted by one nurse
- Physical therapy: Gait training in parallel bars
- Occupational therapy and speech and language therapy are also intervening for 20-40 minutes each.
- Time outside of rehabilitation, he is lying in bed watching TV.









## ② Sarcopenia Committee

### Sarcopenia assessment on admission

Nurses: Evaluation of muscle mass

Physical therapist: Evaluation of handgrip strength and physical function

Registered dietitian: Determination of sarcopenia and investigation of causes

### Countermeasures for sarcopenia

Sarcopenia card displayed at bedside

(Mascot character: Sarco-kun)

Explanation of sarcopenia to patients and their families

Nutritional intervention

(nutrition fortification, BCAA, vitamin D)

Nutritional supplements are taken after physical therapy intervention

Nurses conducted petit rehabilitation

(chair-stand training, thigh-raising training, etc.)

Countermeasures for sarcopenic dysphagia

→ Intervention by speech language pathologist, certified nurse in dysphagia nursing, and registered dietitian



(Sarco-kun)

Another activity is the "Sarcopenia Committee". The committee was established in 2020 in recognition of the need to address sarcopenia throughout the hospital.

Increasing "awareness" and "connecting"  
Leveraging strengths

It's a team approach to rehabilitation nutrition.

Navigator

Physician: Keisuke Maeda



Let's change tomorrow with rehabilitation nutrition!

From "can't" to "can".

can't

## ① NST (\*4) Conference

### Objective

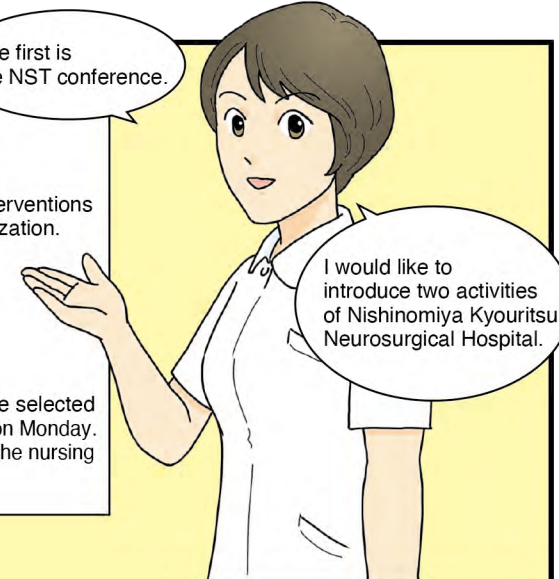
- To identify patients who need nutritional interventions through periodic assessment after hospitalization.
- Evaluate from the perspective of nursing.

### Contents

- Body weight measurement of all patients on weekends.
- Every Sunday, nurses in each ward hold an NST conference for all patients.
- Patients requiring nutritional intervention are selected and the ward registered dietitian is informed on Monday.
- The content of the conference is recorded in the nursing record and the information is shared.

The first is the NST conference.

I would like to introduce two activities of Nishinomiya Kyouritsu Neurosurgical Hospital.



\*4 NST: Nutrition Support Team

The following is a summary of the three nursing perspectives in conferences: "activity, excretion, and nutrition".

### Activity

#### Is there an increase in activity on the ward?

Frequent urination, frequent trips to the toilet  
Presence of restlessness, increased muscle tone, involuntary movements, etc.

#### Is there any low activity?

Daytime somnolence → Need to adjust sleep rhythm  
Low activity → Requires early mobilization and bedside rehabilitation

Are there any factors that limit activity, such as an indwelling urinary catheter?  
Is physical restraint necessary?

### Excretion

#### Excretion is an important nutritional care

Is there any decrease in absorption due to diarrhea?  
Is there a decrease in appetite due to constipation?  
Water intake, fiber, medications, activity status

### Nutrition

#### Food intake status

Any oral problems or dysphagia

#### Factors contributing to body weight loss or gain

Presence of diuretics and edema, activity

#### Factors for lack of appetite

Food preferences, can they bring food to the hospital?  
Depressive tendencies  
Is the patient affected by medication?





# CLINICO delivers “Hope” through “Food”

Reha-Time Jelly gives you  
a refreshing boost !

## Reha-Time Jelly



Muscat flavor Peach flavor Honey lemon flavor Amanatsu flavor

per pouch (120g)

|                                                    |                           |
|----------------------------------------------------|---------------------------|
| Protein<br>10.0g                                   | Energy<br>100kcal         |
| BCAAs<br>2,500mg<br>(including 1,400mg of leucine) | Vitamin D<br>800IU (20µg) |

Delicious daily nutritional support  
for your happiness life ♪

## Enjoy Climeal

Yogurt flavor Strawberry flavor Banana flavor Corn soup flavor



Coffee flavor Milk tea flavor Rich milk flavor Apple milk flavor

per 1 pack (125ml)

|                 |                                  |
|-----------------|----------------------------------|
| Protein<br>7.5g | Energy<br>200kcal                |
| Fiber<br>2.5g   | LAC-Shield*<br>10 billion pieces |

\*“LAC-Shield” is the registered trademark in Japan  
by MORINAGA MILK INDUSTRY CO., Ltd.



## Rehabilitation Nutrition in comic book

Vol.1 Acute care hospital edition

From “Can’t” to “Can” with Rehabilitation Nutrition

|                        |                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Original Story         | Ayano Nagano                                                                                                                                                 |
| Supervising director   | International Association of Rehabilitation Nutrition (IARN)<br>Hidetaka Wakabayashi, Dai Fujiwara, Keisuke Maeda, Saori Imura                               |
| References             | Nagano A, Nishioka S, Wakabayashi H<br>Rehabilitation Nutrition for Iatrogenic Sarcopenia and Sarcopenic Dysphagia<br>J Nutr Health Aging.2019;23(3):256-265 |
| Production Publication | SILKBRAINS Co., Ltd.                                                                                                                                         |
| Offer                  | CLINICO Co., Ltd.                                                                                                                                            |