

# Functional prognosis

## What is the expected sequence of functional recovery? (0-6 months)

(NB: sequence only applies to hemispheric strokes)

**Natural sequence for mobility:** lying ► sitting ► standing up/sitting down ► standing ► walking

**Natural sequence for basic ADLs:** care for external appearance ► eating ► transfers ► toilet use ► mobility ► undressing and dressing ► bathing/showering ► walking stairs

## What are the determinants of functional recovery, how are they objectively assessed and what measurement instruments are recommended? (0-6 months)

Section D.1

### Assess determinants objectively

- day 2: walking ability and dexterity
- day 5: basic ADLs

### Prognosis

#### Favorable

continue at Diagnostic Process

#### Unfavorable

- continue at Diagnostic Process
- weeks 0-4: assess determinants objectively each week
- months 1-6: assess determinants objectively each month

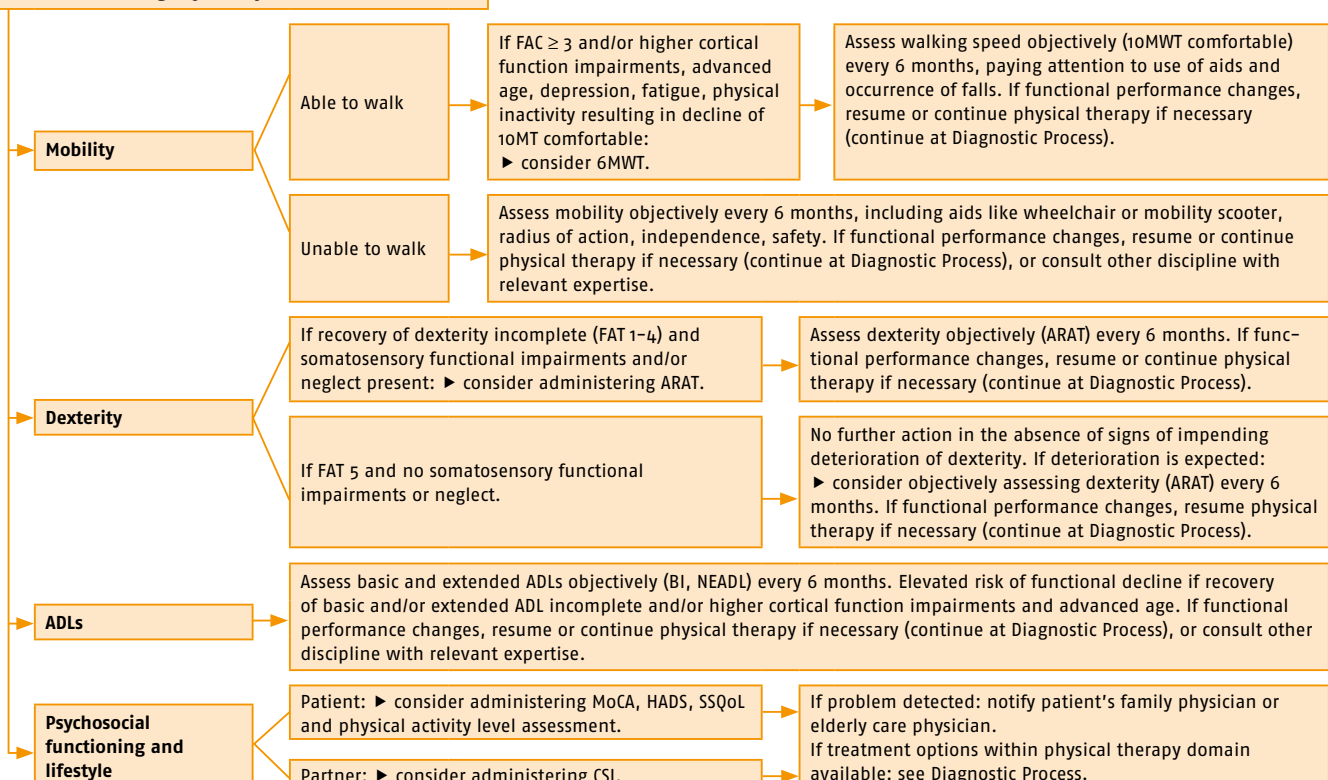
| Recovery of     | Favorable determinants   | Operationalization of favorable prognosis   | Assess at least:   |
|-----------------|--|---|--|
| walking ability | <ul style="list-style-type: none"> <li>- presence of sitting balance</li> <li>- reasonable to good motor function of paretic leg</li> <li>- reasonable to good ADL independence</li> <li>- lower age</li> <li>- absence of homonymous hemianopia</li> <li>- urinary continence</li> <li>- premorbid independent walking ability</li> <li>- premorbid ADL independence</li> </ul> | <ul style="list-style-type: none"> <li>- sitting unaided for at least 30 seconds</li> <li>- no severe paresis of the leg</li> </ul>   | TCT – sitting balance: ≥ 25 points<br><br>MI – lower extremity ≥ 25 points |
| dexterity       | <ul style="list-style-type: none"> <li>- some motor function of paretic arm</li> <li>- some dexterity</li> <li>- presence of neurophysiological functions (motor evoked potentials, SEP)</li> </ul>  | <ul style="list-style-type: none"> <li>- some voluntary finger extension</li> <li>- presence of at least visible or perceptible contraction of shoulder abductors</li> </ul>    | FMA – finger extension: ≥ 1 point<br>MI – shoulder abduction: ≥ 9 points   |
| basic ADLs      | <ul style="list-style-type: none"> <li>- reasonable ADL independence at end of first week</li> <li>- reasonable to good neurological status, incl. motor function of arm</li> <li>- lower age</li> <li>- presence of walking ability</li> <li>- premorbid ADL independence</li> <li>- premorbid good participation</li> <li>- no recurrent stroke</li> </ul>                     | <ul style="list-style-type: none"> <li>- limited, somewhat limited or unlimited ADL independence at end of first week</li> <li>- moderate/mild neurological deficits</li> </ul> | BI at end of week 1: ≥ 7<br><br>NIHSS: ≤ 7                                 |

(NB The determinants apply particularly to strokes in the anterior circulation of the carotid artery.)

## How is the patients functioning (or the risk of deterioration thereof) evaluated during the chronic phase and which assessment times are recommended?

Section D.2

### Assess functioning objectively 6 months after stroke



### Diagnostic Process

#### Presentation (referral)

**General patient details**

- diagnosis at referral
- laterality of stroke
- type of stroke
- date of stroke
- recurrent stroke

**Other details**  
Information from patient's medical file or file kept by other discipline (at hospital or institution)

#### Additional history-taking / heteroanamnesis

- patient's preferred hand
- pre-existing functioning
- patient's domestic situation
- presence of home adaptations/aids
- relevant medical history (CIRS)\*
- relevant psychiatric history (CIRS)\*

\* This information may be available from the patient's medical file.

#### Additional investigations

- diagnostics
- use of measurement instruments in **accordance with Clinimetrics Flowchart**
- physical therapist's findings / results of additional investigations
- impairments of body functions, limitations of activities, and restrictions of participation see **Quick reference card Additional investigations**

#### Analysis

prognostic determinants: **see Functional Prognosis Flowchart**

### Therapeutic Process

#### Treatment plan

- defined interdisciplinary goal
- interdisciplinary agreements
- expected duration of treatment, number of sessions a week and intended duration of session(s).

#### Treatment

See **Therapeutic Process Flowchart**

#### Evaluation

- Depending on presenting problem and related treatment goals and/or at physical therapist's discretion
- Use of measurement instruments in **accordance with Clinimetrics Flowchart**

#### Conclusion of treatment episode

- date and reason for discharge/conclusion of treatment
- agreements about aftercare

| Domain ICF level  | (H)AR          | VR | LR | RC |
|---|----------------|----|----|----|
| <b>Walking and walking-related functions and activities</b> |                |    |    |    |
| Functions:  |                |    |    |    |
| MI for lower extremity                                      | ●              | ●  | ●  | ●  |
| 10MWT comfortable (FAC ≥ 3)                                 | ●              | ●  | ●  | ●  |
| FMA for lower extremity                                     | ●              | ●  | ●  | ●  |
| 10MWT maximum (FAC ≥ 3)                                     | ●              | ●  | ●  | ●  |
| 6MWT (whether or not combined with Borg RPE) (FAC ≥ 3)      | ●              | ●  | ●  | ●  |
| Activities:   |                |    |    |    |
| TCT   | ●              | ●  | ●  | ●  |
| BBS   | ●              | ●  | ●  | ●  |
| FAC   | ●              | ●  | ●  | ●  |
| TIS   | ●              | ●  | ●  | ●  |
| TUG (FAC ≥ 3)   | ●              | ●  | ●  | ●  |
| <b>Dexterity and related functions and activities</b>       |                |    |    |    |
| Functions:  |                |    |    |    |
| MI for upper extremity                                      | ●              | ●  | ●  | ●  |
| FMA for upper extremity                                     | ●              | ●  | ●  | ●  |
| Activities:   |                |    |    |    |
| FAT*  | ●              | ●  | ●  | ●  |
| ARAT*   | ●              | ●  | ●  | ●  |
| NHPT*   | ●              | ●  | ●  | ●  |
| <b>Basic ADLs</b>   |                |    |    |    |
| Activities:   |                |    |    |    |
| BI**  | ● <sup>a</sup> | ●  | ●  | ●  |
| <b>Extended ADLs</b>  |                |    |    |    |
| Activities:   |                |    |    |    |
| NEADL   | ● <sup>a</sup> | ●  | ●  | ●  |
| <b>Perceived quality of life:</b>                           |                |    |    |    |
| Participation:  |                |    |    |    |
| SSQOL   |                |    |    | ●  |
| <b>Other:</b>   |                |    |    |    |
| Functions:  |                |    |    |    |
| NNM   | ●              | ●  | ●  | ●  |
| MAS   | ●              | ●  | ●  | ●  |
| EmNSA   | ●              | ●  | ●  | ●  |
| NIHSS***  | ●              | ●  | ●  | ●  |
| CIRS  | ●              | ●  | ●  | ●  |
| NPRS  | ●              | ●  | ●  | ●  |
| FES   | ●              | ●  | ●  | ●  |
| FSS <sup>a</sup>  | ●              | ●  | ●  | ●  |
| HADS <sup>b,c</sup>   |                | ●  | ●  | ●  |
| MoCA <sup>b</sup>   | ●              | ●  | ●  | ●  |
| O-LCT <sup>b</sup>  | ●              | ●  | ●  | ●  |
| Activities:   |                |    |    |    |
| mRS   | ●              | ●  | ●  | ●  |
| Environmental factors:                                      |                |    |    |    |
| CSI <sup>d</sup>  |                | ●  | ●  | ●  |

| Recommended assessment points   | (H)AR | VR | LR | RC |
|---|-------|----|----|----|
| <b>Basic measurement instruments</b>  |       |    |    |    |
| Always to be administered:  |       |    |    |    |
| during the diagnostic process   | ●     | ●  | ●  |    |
| at conclusion of treatment period and when transferring a patient to another physical therapist   | ●     | ●  | ●  |    |
| at the end of the first week, and 3 and 6 months after the stroke   |       | ●  | ●  |    |
| To be administered depending on context:  |       |    |    |    |
| just before any interdisciplinary consultation (functional [rehabilitation] outcomes)   | ●     | ●  | ●  | ●  |
| timing of administration depends on patient's presenting problem and corresponding treatment goals, and/or at the physical therapist's discretion |       |    |    | ●  |
| <b>Recommended measurement instruments</b>  |       |    |    |    |
| To be administered depending on context:  |       |    |    |    |
| timing of administration depends on patient's presenting problem and corresponding treatment goals, and/or at the physical therapist's discretion | ●     | ●  | ●  | ●  |

(H)AR = hyperacute or acute (rehabilitation) phase; VR = early rehabilitation phase; LR = late rehabilitation phase; RC = rehabilitation during chronic phase.

● Phase in which the basic / recommended measurement instrument is administered.

10MLT = Ten-meter walk test; 6MWT = Six-minute walk test; ARAT = Action Research Arm Test; BI = Barthel Index; BBS = Berg Balance Scale; Borg RPE = Borg Rating of Perceived Exertion; CIRS = Cumulative Illness Rating Scale; CSI = Caregiver Strain Index; EmNSA = Erasmus MC modification of the (revised) Nottingham Sensory Assessment; FAC = Functional Ambulation Categories; FAT = Frenchay Arm Test; FES = Falls-Efficacy Scale; FMA = Fugl-Meyer Assessment; FSS = Fatigue Severity Scale; HADS = Hospital Anxiety and Depression Scale; MAS = Modified Ashworth Scale; MI = Motricity Index; MoCA = Montreal Cognitive Assessment; mRS = Modified Rankin Scale; NEADL = Nottingham Extended ADL index; NIHSS = National Institutes of Health Stroke Scale; NHPT = Nine Hole Peg Test; NZM = Goniometer using the Neutral-Zero method; NPRS = Numeric Pain Rating Scale; O-LCT = O-Letter Cancellation Test; SSQoL = Stroke-Specific Quality of Life scale; TCT = Trunk Control Test; TIS = Trunk Impairment Scale; TUG = Timed Up and Go test.

a To assess the premorbid situation. b Intended to detect and report; treatment not primarily within the physical therapy domain. c To be administered from 7 days after the stroke. d After patient is discharged home or after trial stay at home, provided an informal caregiver is present.

\* Possibly to be derived from occupational therapy file. \*\* Possibly to be derived from nursing file. \*\*\* Possibly to be derived from medical file.

# Therapeutic Process

Intervention?

Is mobilization < 24 hours after the stroke feasible?

**No** (applies only if mobilization is contra-indicated)

**Are there problems while lying in bed regarding:**

- body position in the bed?
- changing body position?
- airways ventilation?\*

**Are any complications to be expected while lying in bed?**

- bronchopneumonia
- deep vein thrombosis
- \* Hemorrhagic stroke is a relative contra-indication for drainage positions

**Evaluation:**

Which measurement instruments?  
See **Clinimetrics flowchart**

**Measures**

- ▶ positioning the paretic side
- ▶ pressure sore prevention (regularly changing body position)
- ▶ breathing exercises and manual support

**Section**

- E.5
- E.5
- E.5

**Measures**

- ▶ changing position in bed
- ▶ monitoring for pain, edema and fever

E.5

E.5

**Yes**

Are there any limitations of activities regarding walking or related functions and activities?

Consider intervention (only Level 1)

| Intervention:                                    | Early mobilization from bed | Exercising sitting balance | Exercising standing up and sitting down | Standing balance without visual feedback | Postural control with visual feedback | Balance during various activities | Body-weight supported treadmill training | Robot-assisted gait training* | Treadmill exercises without body weight support | Overground gait training** | Gait training with external auditory rhythms | Gait training in public spaces | Virtual reality mobility training | Circuit class training | Exercising with informal caregiver | Muscle strength training for paretic leg | Aerobic training | Combined muscle strength and aerobic training | Training in water (hydrotherapy) | Interventions for somatosensory functions | Electrostimulation of paretic leg – TENS | Electrostimulation of paretic leg – NMS | Electrostimulation of paretic leg – EMG-NMS | Biofeedback for paretic leg |
|--|-----------------------------|----------------------------|---|--|---------------------------------------|-----------------------------------|--|-------------------------------|---|----------------------------|--|--------------------------------|-----------------------------------|------------------------|------------------------------------|--|------------------|---|----------------------------------|---|--|---|---|-----------------------------|
| Section:   | F.1.1                       | F.1.2                      | F.1.3                                   | F.1.4                                    | F.1.5                                 | F.1.6                             | F.1.7                                    | F.1.8                         | F.1.9   | F.1.1                      | F.1.1  | F.1.1                          | F.1.1                             | F.1.1                  | F.1.1                              | F.1.1                                    | F.1.1            | F.1.1   | F.1.1                            | F.1.2                                     | F.1.2                                    | F.1.2                                   | F.1.2                                       |                             |
| <b>Impairments at ICF body function level</b>    |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - selective movements                            |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - muscle strength                                |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - resistance to passive movements                |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - active range of motion                         |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - EMG activity                                   |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - comfortable walking speed                      |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - maximum walking speed                          |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - walking distance                               |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - spatiotemporal parameters                      |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - postural sway                                  |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - symmetry of ground reaction forces             |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - heart rate                                     |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - blood pressure                                 |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - aerobic endurance                              |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - energy consumption                             |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - workload                                       |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - respiratory functions                          |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - anxiety  |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - depression                                     |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - fatigue  |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - fear of falling                                |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - complications                                  |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - neurological functions                         |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - falls  |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| <b>Activities and participation</b>              |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - sitting balance                                |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - speed of reaching while sitting                |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - standing balance                               |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - standing up and sitting down                   |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - walking ability                                |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - basic ADLs                                     |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - extended ADLs                                  |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - physical activity level in daily life          |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - quality of life                                |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| <b>Environmental factors</b>                     |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - perceived burden of care of informal caregiver |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |
| - discharge home                                 |                             |                            |   |  |                                       |                                   |  |                               |   |                            |  |                                |                                   |                        |                                    |  |                  |   |                                  |   |  |   |   |                             |

✓ effective; = no added value; × adverse effect. \* Effect on comfortable walking speed, sitting balance, standing balance, and walking ability applies only to patients unable to walk unaided. \*\* Adverse effect on aerobic endurance applies only to patients in early rehabilitation phase; effect on walking distance and anxiety applies to patients walking unaided.



# Therapeutic Process

Yes

Does patient have limitations of activities for walking or related functions and activities?

Consider intervention (only Level 2)

| Intervention:                                 | Bilateral leg training with rhythmic auditory cueing | Mirror therapy for paretic leg | Limb overloading with external weight on paretic side | Systematic feedback on walking speed | Maintaining ankle dorsiflexion by means of standing frame or night splint | Manual passive mobilization of ankle* | Range of motion exercises for ankle with devices | Ultrasound for paretic leg | Segmental muscle vibration for drop foot | Whole body vibration |
|---|--|--------------------------------|---|--------------------------------------|---|---------------------------------------|--|----------------------------|--|----------------------|
| Section:                                      | F.2.1  | F.2.2                          | F.2.3   | F.2.4                                | F.2.5   | F.2.6                                 | F.2.7  | F.2.8                      | F.2.9                                    | F.2.10               |
| <b>Impairments at ICF body function level</b> |  |                                |   |                                      |   |                                       |  |                            |  |                      |
| - selective movements                         | =  | ✓                              |   |                                      |   |                                       |  |                            |  | =                    |
| - muscle strength                             |  |                                |   |                                      |   |                                       | =  |                            |  | =                    |
| - resistance to passive movements             |  | =                              |   |                                      |   |                                       | =  | =                          |  |                      |
| - Hmax/Mmax ratio                             |  |                                |   |                                      |   |                                       |  | ✓                          |  |                      |
| - range of motion                             |  |                                |   |                                      | =   | ✓                                     | =  | =                          |  |                      |
| - somatosensory function                      |  |                                |   |                                      |   |                                       |  |                            |  | =                    |
| - walking speed                               | =  |                                | =   | ✓                                    |   |                                       | =  |                            |  | =                    |
| - symmetry of ground reaction forces          |  |                                |   |                                      |   | =                                     |  |                            |  |                      |
| - walking distance                            |  |                                |   |                                      |   |                                       | =  |                            |  |                      |
| - spatiotemporal parameters                   |  |                                |   |                                      |   |                                       |  |                            | =  |                      |
| - kinematic outcome measures                  |  |                                |   |                                      |   |                                       |  |                            | ✓  |                      |
| - electromyographic functions                 |  |                                |   |                                      |   |                                       |  |                            | ✓  |                      |
| <b>Activities and participation</b>           |  |                                |   |                                      |   |                                       |  |                            |  |                      |
| - sitting and standing balance                |  |                                | ×   |                                      |   |                                       | =  |                            |  | =                    |
| - standing up from chair                      |  |                                |   |                                      | =   |                                       |  |                            |  |                      |
| - speed of standing up /sitting down          |  |                                |   |                                      |   | ×                                     |  |                            |  |                      |
| - walking ability                             |  | =                              |   | =                                    |   | =                                     | =  |                            |  | =                    |
| - basic ADLs                                  |  | ✓                              |   |                                      |   |                                       | =  |                            |  | =                    |
| <b>Environmental factors</b>                  |  |                                |   |                                      |   |                                       |  |                            |  |                      |
| - length of stay                              |  |                                |   | =                                    |   |                                       |  |                            |  |                      |
| - quality of life                             |  |                                |   | =                                    |   |                                       |  |                            |  |                      |

✓ effective; = no added value; × adverse effect. \* The effect on passive range of motion is not clinically relevant. \*\* Just as effective as other forms of exercise therapy at equal dosage.

| General treatment options            |  | Section |
|--------------------------------------|--|---------|
| Teleconsultation/ telerehabilitation | to facilitate self-management, independent exercising, and empowerment in patient's own domestic and community environment (Level 2)   | B.6     |
| Self-management                      | to facilitate patient's control of own treatment and initiative  | B.7     |
| Lifestyle programs                   | with aerobic training (clinimetrics and program structure according to <i>KGNF Guideline on Cardiac Rehabilitation</i> ) to reduce risk factors for stroke if history of TIA or 'minor stroke' (Level 2) | B.8     |
| Falls prevention                     | to improve walking ability, including screening for elevated falls risk and implementing multifactorial treatment strategy (Level 4)   | B.9     |

| Are any aids required for mobility? |   | Section |
|-------------------------------------|---|---------|
| walking aids                        | to improve walking ability (safety, independence, efficiency, confidence) (Level 2)               | F.3.1   |
| leg orthoses                        | to improve walking ability (walking speed, energy consumption, walking distance) (Level 2)        | F.3.2   |
| wheelchair                          | To improve mobility of non-ambulatory patients (safety, independence, radius of action) (Level 4) | F.3.3   |

| Does patient have any limitations of other ADLs regarding: |  | Section |
|--|--|---------|
| dyspraxia?   | consult occupational therapist and/or (neuro)psychologist: strategy training; gestural training                | F.6.2   |
| leisure time activities?                                   | consult occupational therapist: learning/re-learning and resuming leisure or social activities in home setting | F.6.3   |

| Does patient have limitations of cognitive abilities regarding: |  | Section |
|---|--|---------|
| attention span?   | consult (neuro)psychologist: compensation strategies training                            | G.1     |
| memory?   | consult (neuro)psychologist: strategy training using internal and/or external strategies | G.2     |
| attention for neglected side?                                   | consult (neuro)psychologist: visuele scanning training                                   | G.3     |

Does patient have limitations of dexterity and related functions and activities?

Consider intervention (only Level 2)

| Intervention:                                 | 'Continuous passive motion' for shoulder | Subsensory threshold electrical and vibration stimulation of paretic arm | Circuit class training | Passive bilateral arm training | Mechanical arm trainer |
|---|--|--|------------------------|--------------------------------|------------------------|
| Section:                                      | F.5.1                                    | F.5.2  | F.5.3                  | F.5.4                          | F.5.5                  |
| <b>Impairments at ICF body function level</b> |  |  |                        |                                |                        |
| - selective movements                         |  | =  | ✓                      | =                              | =                      |
| - muscle strength                             |  | =  |                        | =                              | =                      |
| - resistance to passive movements             |  | =  |                        |                                |                        |
| - shoulder joint stability                    |  | =  |                        |                                |                        |
| - pain  |  | =  |                        |                                |                        |
| - somatosensory function                      |  | ×  |                        |                                |                        |
| - neurological functions                      |  |  |                        | =                              |                        |
| - neurophysiological outcome measures         |  |  |                        | ✓                              |                        |
| <b>Activities and participation</b>           |  |  |                        |                                |                        |
| - dexterity                                   |  | =  | ✓                      |                                | ✓                      |
| - basic ADLs                                  |  | =  |                        |                                | =                      |
| - quality of life                             |  | =  |                        |                                |                        |

✓ effective; = no added value; × adverse effect.