

Deze powerpoint is gepresenteerd op het
3^e WCN-Verenso symposium

Got to Move

Bewegen en multimorbiditeit na een
beroerte

4 juni 2010

Deze presentatie is eigendom van Prof Dr
Eric Scherder, Hoogleraar klinische
neuropsychologie, VU Amsterdam. Het
gebruiken van (delen van) deze
presentatie mag alleen in overleg met de
auteur.



Cognitieve achteruitgang en bewegen bij patiënten met een beroerte

Erik Scherder

Dept. of Clinical Neuropsychology,
VU university Amsterdam

Dept. of Human Movement Sciences,
Rijksuniversiteit Groningen



- Betreffen cognitie en motoriek dezelfde neurale circuits in de hersenen?
- Is er voldoende belangstelling voor motoriek bij beginnende dementie?
- Is er voldoende belangstelling voor het verbeteren van cognitie via de motoriek bij CVA?

NINCDS-ADRDA criteria

(McKhann et al., 1984)

- Motorische stoornissen pas in een LAAT stadium van de ziekte van Alzheimer



Available online at www.sciencedirect.com



NEUROSCIENCE AND
BIOBEHAVIORAL
REVIEWS

Neuroscience and Biobehavioral Reviews 31 (2007) 485–497

www.elsevier.com/locate/neubiorev

Review

Gait in ageing and associated dementias; its relationship with cognition

Erik Scherder^{a,b,*}, Laura Eggermont^b, Dick Swaab^c, Marieke van Heuvelen^a,
Yvo Kamsma^a, Mathieu de Greef^a, Ruud van Wijck^a, Theo Mulder^a

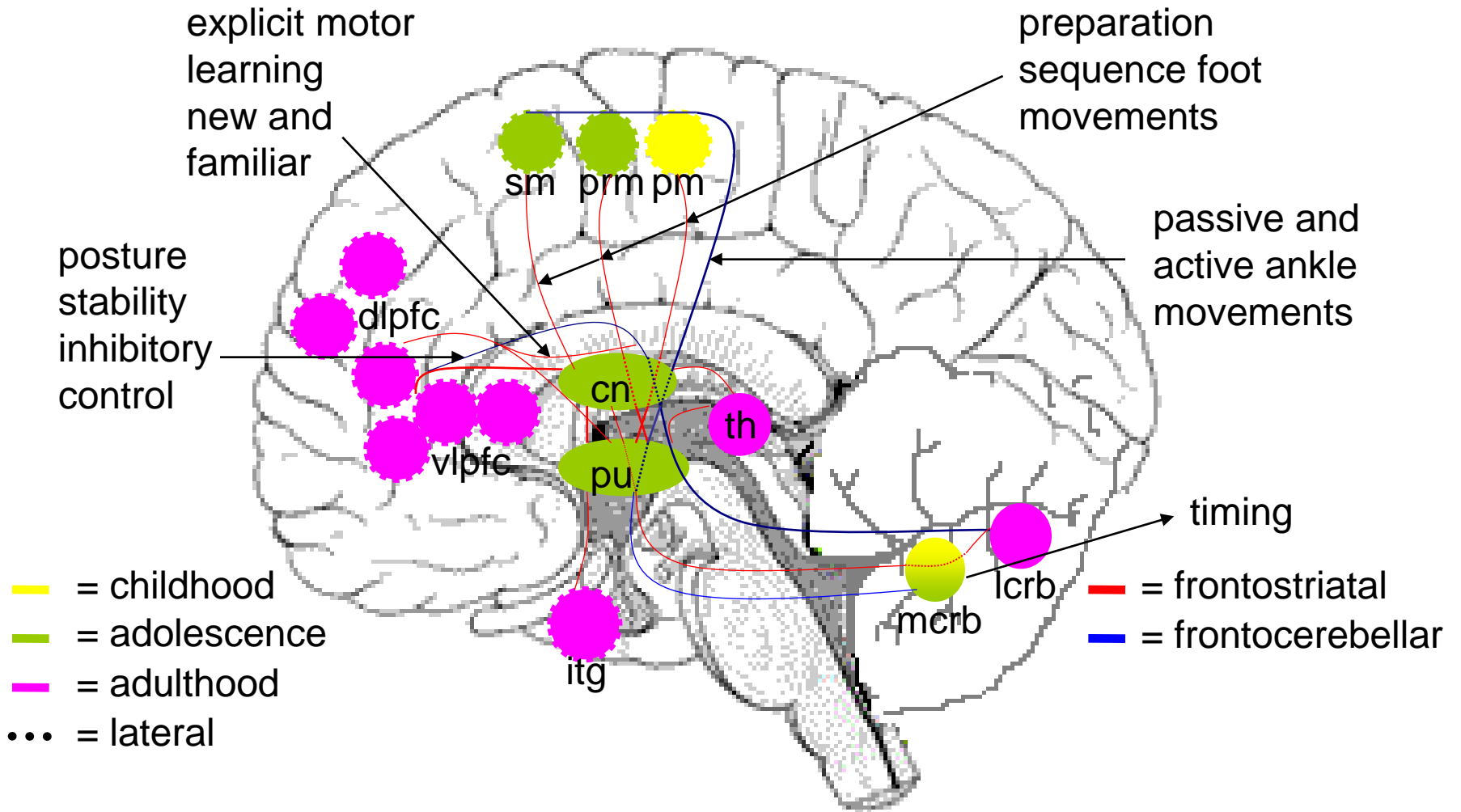
^a*Institute of Human Movement Sciences, Rijksuniversiteit Groningen, A. Deusinglaan 1, 9713 AV Groningen, The Netherlands*

^b*Department of Clinical Neuropsychology, Vrije Universiteit, van der Boerhorststraat 1, 1081 BT Amsterdam, The Netherlands*

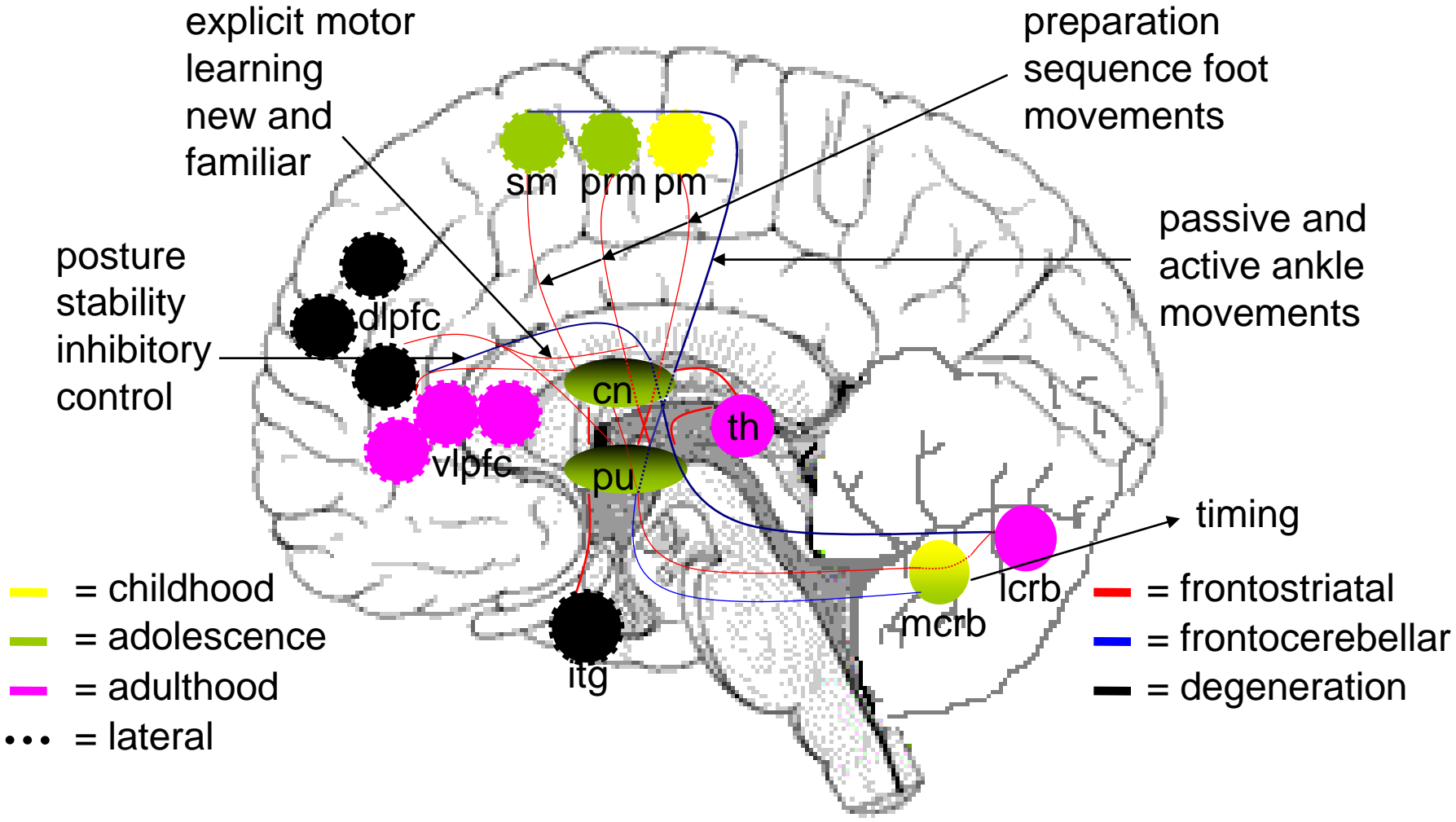
^c*Netherlands Institute of Brain Research, Meibergdreef 33, 1105 AZ Amsterdam, The Netherlands*

Received 5 November 2006

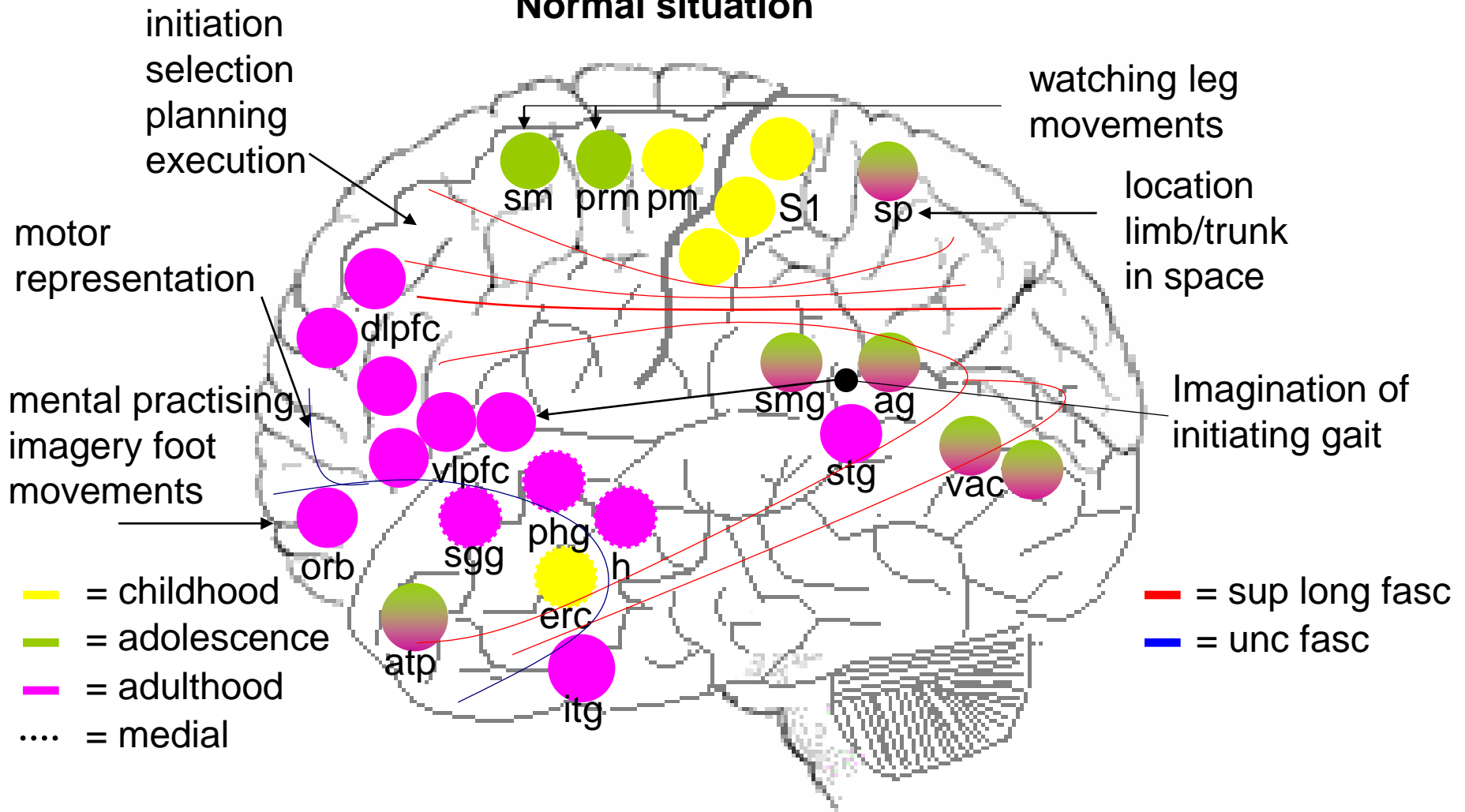
Normal situation



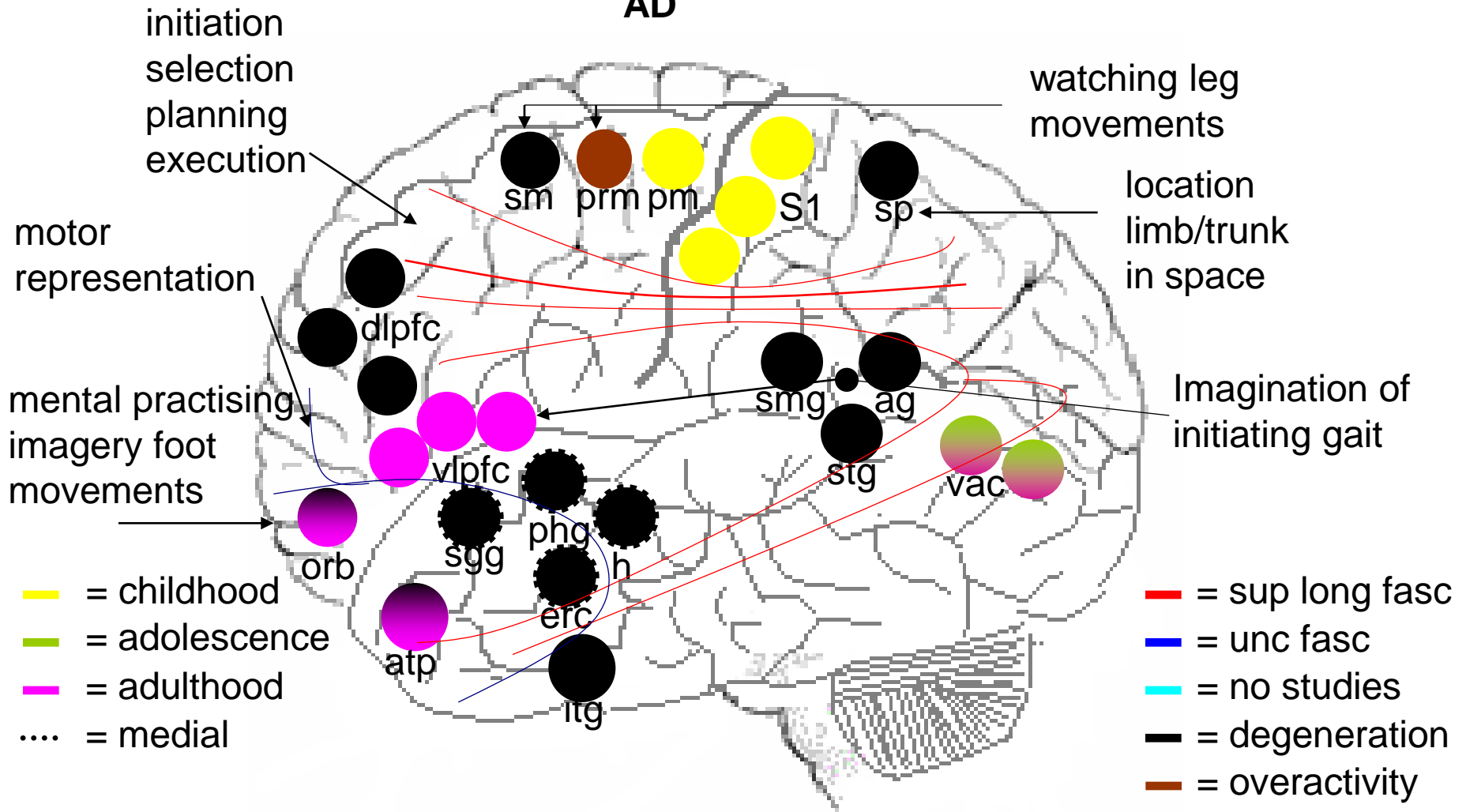
AD



Normal situation



AD



The Mirror Neuron System: A Neural Substrate for Methods in Stroke Rehabilitation

**Kathleen A. Garrison, MSc,¹ Carolee J. Winstein, PhD,²
and Lisa Aziz-Zadeh, PhD³**

Neurorehabilitation and
Neural Repair
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DOI: 10.1177/1545968309354536
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Plasticity during stroke recovery: from synapse to behaviour

*Timothy H. Murphy^{**§} and Dale Corbett[†]*

Abstract | Reductions in blood flow to the brain of sufficient duration and extent lead to stroke, which results in damage to neuronal networks and the impairment of sensation, movement or cognition. Evidence from animal models suggests that a time-limited window of neuroplasticity opens following a stroke, during which the greatest gains in recovery occur. Plasticity mechanisms include activity-dependent rewiring and synapse strengthening. The challenge for improving stroke recovery is to understand how to optimally engage and modify surviving neuronal networks, to provide new response strategies that compensate for tissue lost to injury.

ORIGINAL ARTICLE

Does Treadmill Exercise Improve Performance of Cognitive or Upper-Extremity Tasks in People With Chronic Stroke? A Randomized Cross-Over Trial

Michelle Ploughman, PhD, PT, Jason McCarthy, MD, Melissa Bossé, MD, Heather J. Sullivan, BKin, Dale Corbett, PhD

RESEARCH PAPER

The effect of two physiotherapy approaches on physical and cognitive functions and independent coping at home in stroke rehabilitation. A preliminary follow-up study

OUTI PYÖRIÄ¹, ULLA TALVITIE², HANNU NYRKKÖ³, HANNU KAUTIAINEN⁴,
TIMO POHJOLAINEN⁵ & VIRPI KASPER¹

¹Central Hospital of Savonlinna, Physical Therapy Services, Savonlinna, ²University of Jyväskylä, Department of Health Sciences, Jyväskylä, ³Kruunupuisto Punkaharju Rehabilitation Center, Punkaharju, ⁴Rheumatism Foundation Hospital, Heinola, and ⁵Orton, The Rehabilitation Unit of the Invalid Foundation, Helsinki, Finland

Research Articles

Aerobic Exercise Improves Cognition and Motor Function Poststroke

Barbara M. Quaney, PT, PhD, Lara A. Boyd, PT, PhD, Joan M. McDowd, PhD, Laura H. Zahner, PT,
Jianghua He, PhD, Matthew S. Mayo, PhD, and Richard F. Macko, MD

**Neurorehabilitation and
Neural Repair**

Volume 23 Number 9

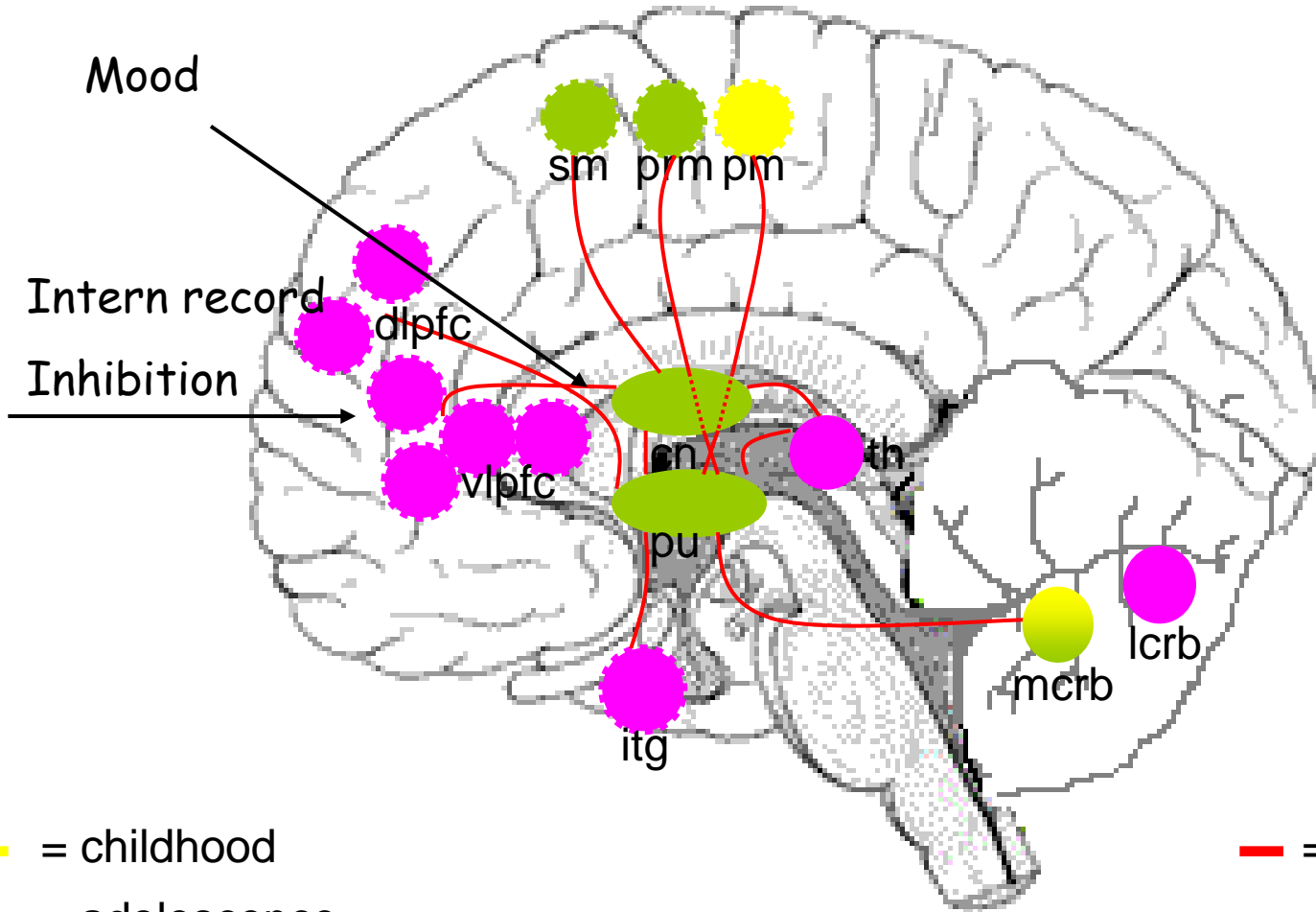
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10.1177/1545968309338193

<http://nrr.sagepub.com>

Normal situation

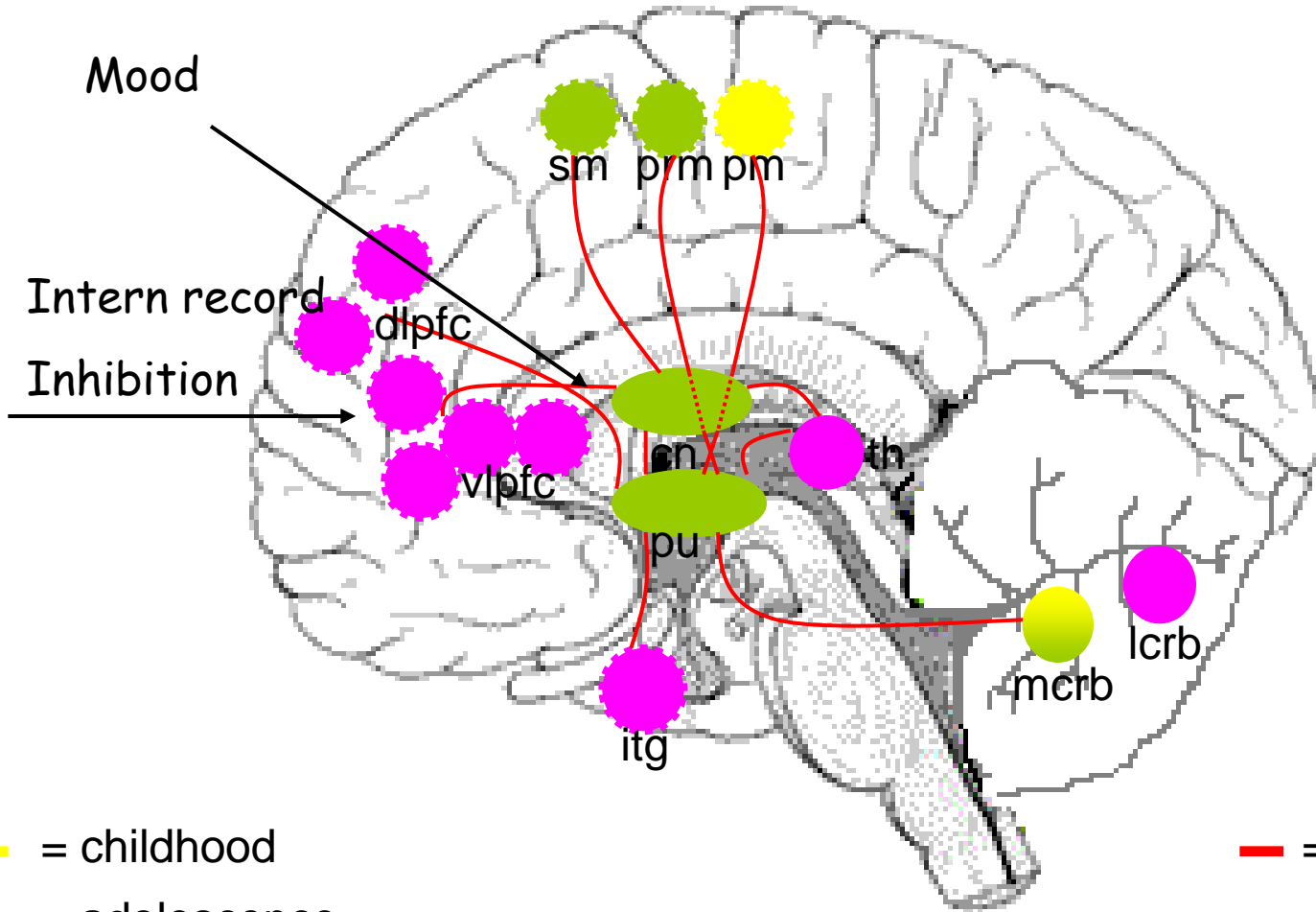


- = childhood
- = adolescence
- = adulthood
- ... = lateral

— = frontostriatal



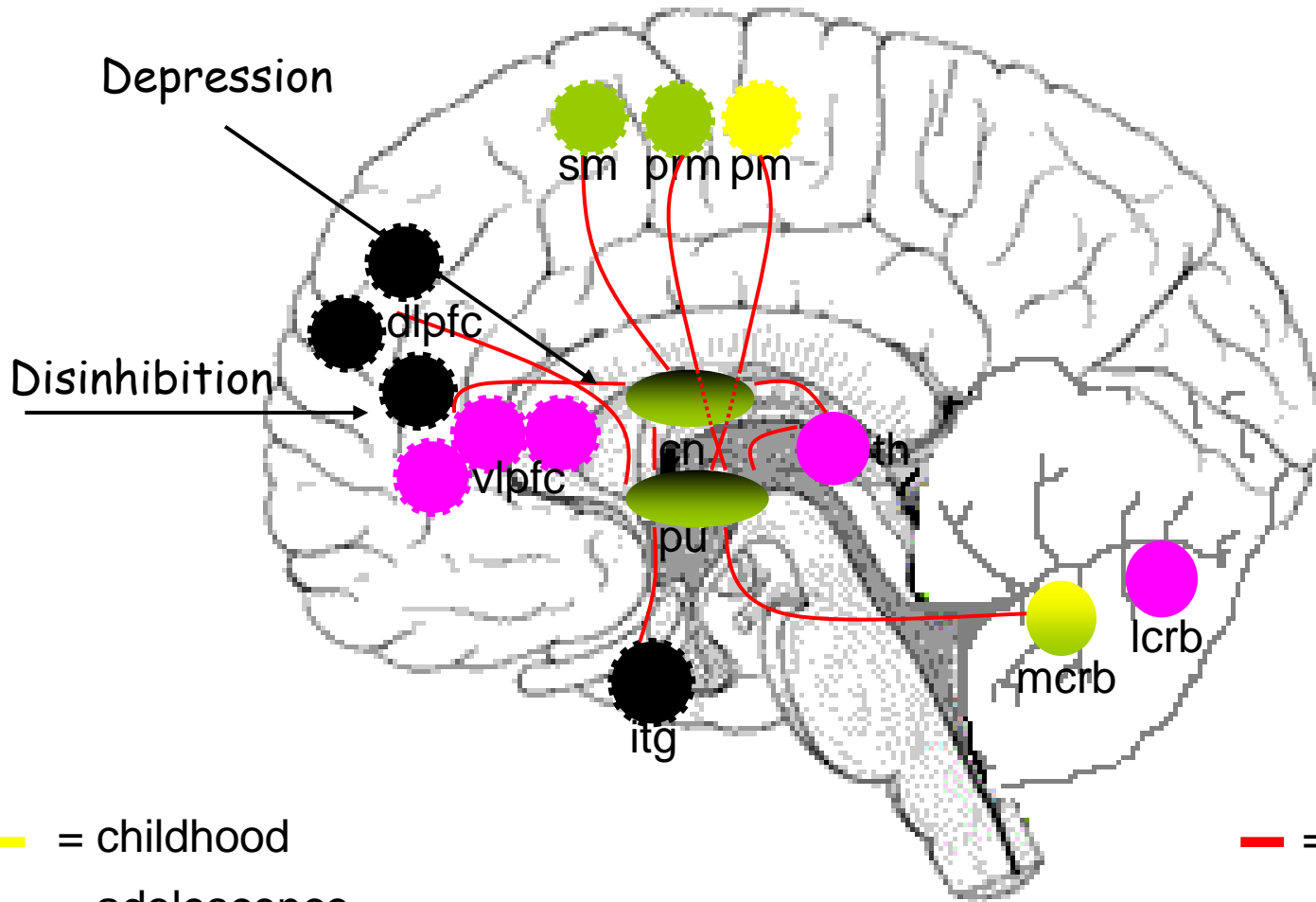
Normal situation



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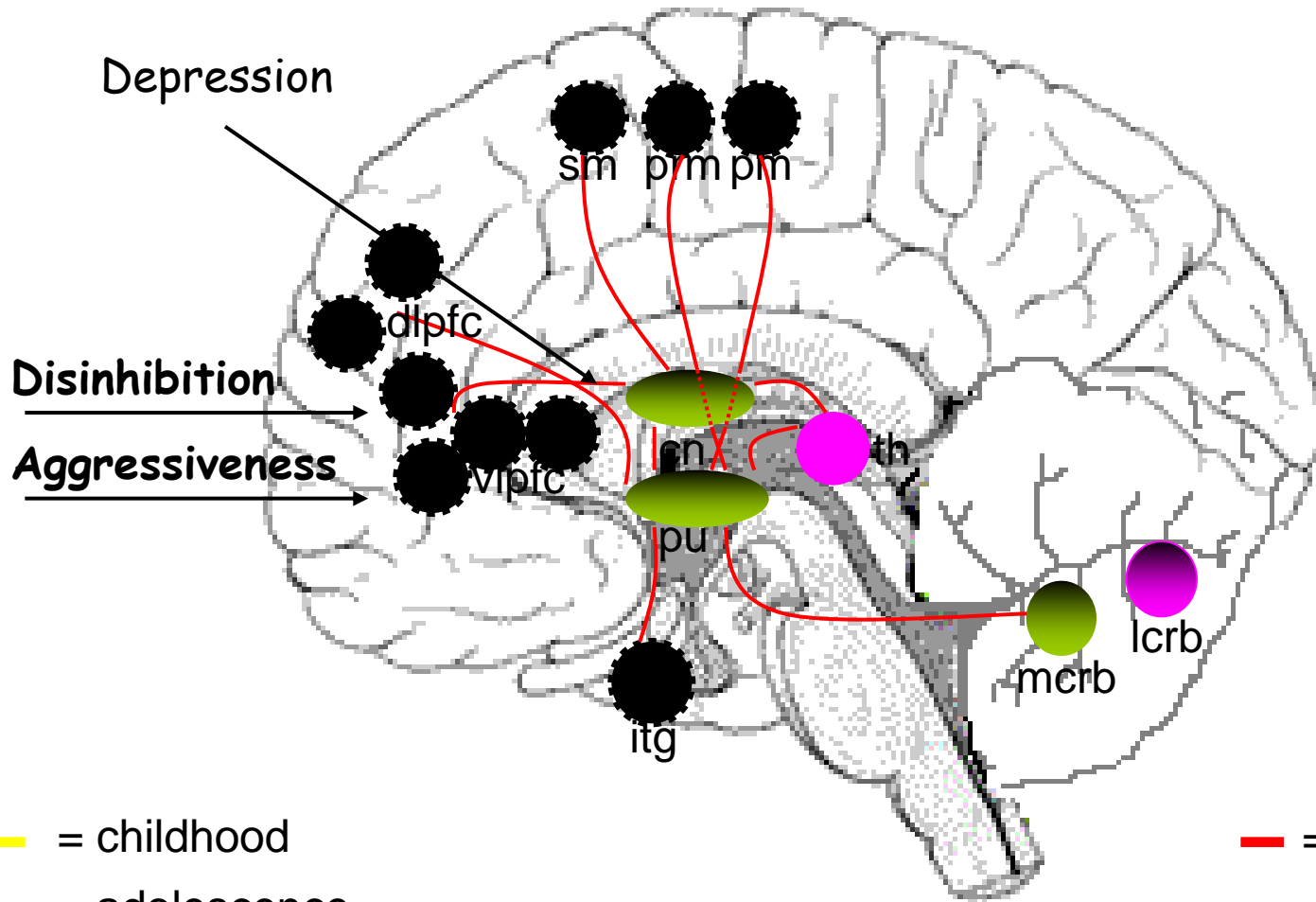
AD



- = childhood
- = adolescence
- = adulthood
- ... = lateral

- = frontostriatal
- = degeneration

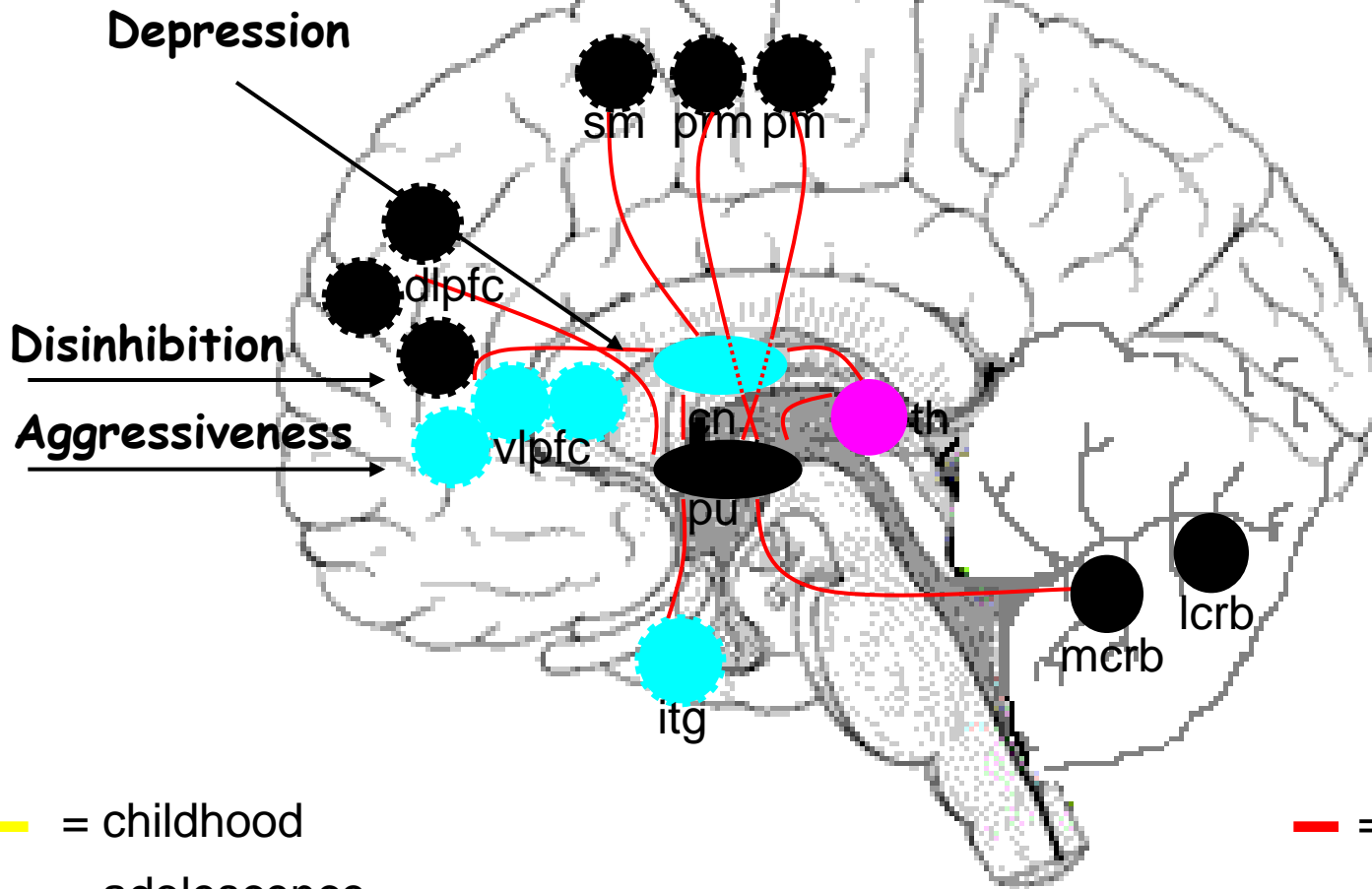
FTD



- = childhood
- = adolescence
- = adulthood
- ... = lateral

- = frontostriatal
- = degeneration

VaD



- = childhood
- = adolescence
- = adulthood
- ... = lateral

- = frontostriatal
- = degeneration
- = no studies



The Minimum Data Set Bedfast Quality Indicator

Differences Among Nursing Homes

Barbara M. Bates-Jensen ▼ Cathy A. Alessi ▼ Mary Cadogan ▼ Lené Levy-Storms ▼ Jennifer Jorge
June Yoshii ▼ Nahla R. Al-Samarrai ▼ John F. Schnelle

15 nursing homes; majority of the 451 residents spent
at least 17 hours a day in bed

The Effects of Resident and Nursing Home Characteristics on Activities of Daily Living

Jye Wang,¹ Robert L. Kane,² Lynn E. Eberly,³ Beth A. Virnig,² and Ling-Hui Chang^{4,*}

¹Department of Health Care Administration, Chang Jung Christian University, Taiwan, Republic of China.

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³Division of Biostatistics, University of Minnesota, Minneapolis.

⁴Department of Occupational Therapy, Chung Shan Medical University, Taiwan, Republic of China.

Stroke

JOURNAL OF THE AMERICAN HEART ASSOCIATION

American Stroke
AssociationSM

A Division of American
Heart Association



Inactive and Alone

Physical Activity Within the First 14 Days of Acute Stroke Unit Care

Julie Bernhardt, PhD; Helen Dewey, PhD; Amanda Thrift, PhD; Geoffrey Donnan, MD

Filling up the hours: How do stroke patients on a rehabilitation nursing home spend the day?

Marleen Huijben-Schoenmakers, Claudia Gamel Nursing Science Department, University Medical Centre Utrecht and **Thóra B Hafsteinsdóttir** Division of Neuroscience of the Rudolf Magnus Institute of Neurosciences, University Medical Centre Utrecht, Utrecht, and Care for the Elderly and Chronically Ill, University of Applied Sciences, Utrecht, The Netherlands and the Faculty of Nursing, University of Iceland, Reykjavik, Iceland

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Dank voor uw aandacht!

