

Vilai Kuptniratsaikul, M.D.

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| Sex | Female | |
| Place of birth | Bangkok, THAILAND | |
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QUALIFICATIONS

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| ▪ Master of Science (M.Sc.), in Clinical Epidemiology | 2004 |
| ▪ Cert. in Geriatric Rehabilitation, Case Western Reserve University, Ohio, USA | 1993 |
| ▪ Dip. Thai Board in Rehabilitation Medicine | 1991 |
| ▪ Grad. Dip. in Clinical Sciences (Rehabilitation) | 1989 |
| ▪ M.D. | 1985 |

HONORS AND AWARDS

- Innovative Research Award of Faculty of Medicine Siriraj Hospital, in 2018, for Underwater Treadmill machine
- Honorable mention in Oral presentation award entitled “Psychometric properties of Thai version Herth hope index in stroke patients” in 2018 Annual meeting of Royal College of Psychiatrists of Thailand

- 3rd rank in Oral presentation award entitled “Clinical factors predicting severe medical complications interrupting rehabilitation program of stroke inpatients” in 2018 Annual meeting of Royal College of Physiatrists of Thailand
- 3rd rank in Oral presentation award entitled “Therapeutic ultrasound combined with transcutaneous electrical nerve stimulation versus therapeutic ultrasound alone for pain relief and functional improvement in symptomatic knee osteoarthritis: A randomized controlled trial” in 2017 Annual meeting of Royal College of Physiatrists of Thailand
- Clinical Research Award of Faculty of Medicine Siriraj Hospital, in 2014, entitled “Efficacy and Safety of Curcuma domestica Extracts Compared to Ibuprofen in Patients with Knee Osteoarthritis: A Multicenter Study.” published in Clin Interv Aging 2014.
- Clinical Research Award of Faculty of Medicine Siriraj Hospital, in 2011, entitled “Efficacy and Safety of Derris scandens Benth extracts in Patients with Knee Osteoarthritis” published in J Altern Complement Med 2011.

APPOINTMENTS

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| ▪ President Elect | Thai Osteoporosis Foundation | 2020-present |
| ▪ President | Royal College of Physiatrists of Thailand | 2019-2020 |
| ▪ President Elect | Royal College of Physiatrists of Thailand | 2017-2018 |
| ▪ Chairman | Department of Rehabilitation Medicine, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, THAILAND | 2008-2015 |
| ▪ Vice Chairman | Department of Rehabilitation Medicine, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, THAILAND | 2004-2007 |
| ▪ Assistant Dean for Student Affairs | Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, THAILAND | 1995-2000 |
| ▪ Associate Professor | Department of Rehabilitation Medicine, | 1997-present |

Faculty of Medicine Siriraj Hospital,
Mahidol University,
Bangkok, THAILAND

- Assistant Professor Department of Rehabilitation Medicine, 1992-1997
 Faculty of Medicine Siriraj Hospital,
 Mahidol University,
 Bangkok, THAILAND
- Instructor Department of Rehabilitation Medicine, 1988-1992
 Faculty of Medicine Siriraj Hospital,
 Mahidol University,
 Bangkok, THAILAND

EDUCATION AND TRAINING

Postgraduate study

- Clinical epidemiology Clinical Epidemiology Unit, 2002-2004
 Faculty of Medicine,
 Chulalongkorn University,
 Bangkok, THAILAND
- Research fellow in MetroHealth Medical Center, 1992–1993
 Geriatric
 Rehabilitation
 Case Western Reserve University,
 Ohio, 44109, USA
- Residency Department of Rehabilitation Medicine, 1988–1991
 Faculty of Medicine Siriraj Hospital,
 Mahidol University
 Bangkok, THAILAND

Undergraduate study

- Medical student Faculty of Medicine Siriraj Hospital, 1979–1985
 Mahidol University,
 Bangkok, THAILAND

School

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| ▪ High school student | Mahapruttaram School, Bangkok, THAILAND | 1977–1979 |
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AREA OF INTEREST

- Geriatric Rehabilitation
- Stroke Rehabilitation

PROFESSIONAL MEMBERSHIP

- **Medical Council of Thailand**
 - Member
- **Royal College of Psychiatrists of Thailand**
 - Member
 - Secretariat, 2006-2008, and 2010-2012
 - Organizing committee, 2008-2010, 2012-present
 - Head of Research Sub-committee, 2004-2017
 - President Elect, 2017-2018
 - President, 2019-2020
- **Thai Osteoporosis Foundation**
 - Member
 - Organizing Committee, 2008-present
 - President Elect, 2020-2021
- **Thai Society of Gerontology and Geriatric Medicine**
 - Member
 - Organizing Committee, 2006-present
- **Thai Arthritis Foundation**
 - Member
 - Organizing Committee, 2001-present
- **Board of Journal of Thai Rehabilitation Medicine**
 - Editorial Board, 2006-present

PUBLICATIONS

1. Kittichaikarn C, Kuptniratsaikul V. Design of an Underwater Treadmill System for rehabilitation of older obese adults: a pre-post study. *BMC Geriatr* 2019 Nov 14;19(1):310. doi: 10.1186/s12877-019-1334-5.
2. Kuptniratsaikul V, Kittichaikarn C, Suntornpiyapan P, Kovintaset K, Inthibal S. Is four-week underwater treadmill exercise regimen compared to home exercise efficacious for pain relief and functional improvement in obese patients with knee osteoarthritis? A randomized controlled trial. *Clin Rehabil* 2019; 33 (1): 85-93.
3. Sangtong K, Chupinijrobkob C, Putthakumnerd W, Kuptniratsaikul V. Does adding transcutaneous electrical nerve stimulation to therapeutic ultrasound affect pain or function in people with osteoarthritis of the knee? A randomized controlled trial. *Clin Rehabil*. 2019 Apr 1:269215519838017. doi: 10.1177/0269215519838017.
4. Wanaratna K, Muangpaisan W, Kuptniratsaikul V, Chalermrasi C, Nuttamonwarakul A. Prevalence and factors associated with frailty and cognitive frailty among community-dwelling elderly with knee osteoarthritis. *J Community Health* 2019; 44(3):587-595.
5. Kuptniratsaikul V, Thitisakulchai P, Sarika S Khaewnaree S. The burden of stroke on caregivers at 1-year period: a multicenter study. *J Thai Rehabil Med* 2018; 28: 8-14.
6. Konggateyai P, Onkampa W, Wongsrithep W, Kuptniratsaikul V. The study of grip strength in community-dwelling Thai elderly. *J Gerontol Geriatr Med* 2018; 17: 53-61.
7. Kuptniratsaikul V, Kovindha A, Suethanapornkul S, Massakulpan P, Permsirivanich W, Srisa-An Kuptniratsaikul P. Motor recovery of stroke patients after rehabilitation: 1-year follow-up study. *Int J Neurosci* 2017; 127: 37-43.
8. Pattanasuwanna P, Kuptniratsaikul V. Inpatient rehabilitation outcomes in patients with stroke at Thailand's largest tertiary referral center: A 5-year retrospective study. *J Scientific Res Studies* 2017; 4(8), 208-16.
9. Limampai P., Wongsrithep W., Kuptniratsaikul V. Depression after stroke at 12-month follow-up: a multicenter study. *Int J Neurosci* 2017; 127: 887-92.
10. Kuptniratsaikul V, Kovindha A, Suethanapornkul S, Massakulpan P, Permsirivanich W, Srisa-An Kuptniratsaikul P. Motor recovery of stroke patients after rehabilitation: 1-year follow-up study. *Int J Neurosci* 2017; 127: 37-43.
11. Koedwan C, Bun in J, Teerasimbut C, Kuptniratsaikul V. The prevalence of knee OA in community-based elders. *Thai J Physiother* 2016; 38: 59-70.
12. Khongsri N, Tongsuntud S, Limampai P, Kuptniratsaikul V. The prevalence of sarcopenia and related factors in a community-dwelling elders Thai population. *Osteoporosis and Sarcopenia* 2016; 2:110-5.

13. Kuptniratsaikul V, Wattanapa P, Wathanadilokul U, Sukonthamarn K, Lukkanapichonchut P, Ingkasuthi K, et al. The Effectiveness and Efficiency of Inpatient Rehabilitation Services in Thailand: A Prospective Multicenter Study. *Rehabilitation Process and Outcome* 2016; 5: 13–18.
14. Tunwattanapong P, Kongkasawan R, Kuptniratsaikul V. The effectiveness of a neck and shoulder stretching exercise program among office workers with neck pain: a randomized controlled trial. *Clin Rehabil* 2016; 30: 64-72.
15. Kongkasawan R, Voraakhom K, Pisalayabutra P, Maneechai P, Boonin J, Kuptniratsaikul V. Creative art therapy to enhance rehabilitation for stroke patients: A randomized controlled trial. *Clin Rehabil* 2016; 30: 1016-23.
16. Rinkaewkan P, Kuptniratsaikul V. The effectiveness of inpatients rehabilitation for spinal cord patients in Siriraj hospital. *Spinal Cord* 2015; 53: 591-7.
17. Keeratithaworn N, Panich K, Ajjimaporn A, Kuptniratsaikul V. Effect of 4-week simple balance exercise on balance ability in Thai elderly. *J Sports Sci Tech* 2015; 15: 1203-11.
18. Tanasugarn L, Natearpha P, Kongsakon R, Chaosaowapa M, Choatwongwachira W, Seanglaw D, Kiratisin P, Namatra C, Srinonprasert V, Nimmannnit A, Vannabhum M, Laohapand T, Kuptniratsaikul V. Physical effects and cognitive function after exercising "Rue-si-dad-ton" (exercise using the posture of the hermit doing body contortion): a randomized controlled pilot trial. *J Med Assoc Thai* 2015; 98: 306-13.
19. Kuptniratsaikul V, Wattanapan P, Wathanadilokul U, Sukonthamarn K, Lukkanapichonchut P, Ingkasuthi K, et al. A Multicenter Study of Efficiency for Rehabilitation Service: A Comparison between Institutes. *J Thai Rehabil Med* 2014; 24: 76-85.
20. Tanvijit P, Kuptniratsaikul V. The Physical Fitness of Residents of Faculty of Medicine Siriraj Hospital, Mahidol University. *Siriraj Med J* 2014; 66:194-201.
21. Kuptniratsaikul V, Dajpratham P, Taechaarpornkul W, Buntragulpoontawee M, Lukkanapichonchut P, Chootip J, et al. Efficacy and Safety of Curcuma domestica Extracts Compared to Ibuprofen in Patients with Knee Osteoarthritis: A Multicenter Study. *Clin Interv Aging* 2014; 9: 1-8.
22. Thanakiatpinyo T, Suwannatrat S, Suwannatrat U, Khumkaew P, Wiwattamongkol D, Vannabhum M, Pianmanakit S, Kuptniratsaikul V. The efficacy of traditional Thai massage in decreasing spasticity in elderly stroke patients. *Clinical Interventions in Aging* 2014; 9: 1311–9.
23. Kuptniratsaikul V, Wattanapan P, Wathanadilokul U, Sukonthamarn K, Lukkanapichonchut P, Ingkasuthi K, et al. A Multicenter Study of Efficiency for

- Rehabilitation Service: A Comparison between Institutes. J Thai Rehabil Med 2014; 24: 76-85.
24. Limphakdee W, Leewanun C, Kuptniratsaikul V. The efficacy of acupuncture biweekly for pain relief in knee osteoarthritis patients. J Thai Rehabil Med 2014; 24: 5-12.
 25. Piravej K, Konjen N, Cowintaveewat V, Kuptniratsaikul V, Srisa-an Kuptniratsaikul P. Interdisciplinary intensive rehabilitation on Sub-acute vs. chronic stroke quality of life: A multi-center study. Asian Biomed 2014; 8: 1-9.
 26. Dajpratham P, Kuptniratsaikul V, Putthakumnerd W, Limumpai P. Walking function at 1-year after stroke rehabilitation: a multicenter study. J Med Assoc Thai 2014; 97: 107-12.
 27. Tongsuntud S, Kuptniratsaikul V, Pulket C. A maximum of compression force assessment of two types of stretchers during moving patients. Siriraj Med J 2014; 66: 70-74.
 28. Kuptniratsaikul V, Kovindha A, Piravej K, Dajpratham P. First-year outcomes after stroke rehabilitation: A multicenter study in Thailand. ISRN Rehabil 2013; 2013: 1-6.
 29. Kuptniratsaikul V, Kovindha A, Suethanapornkul S, Manimmanakorn N, Archongka Y. Long-term morbidities in stroke survivors: a prospective multicenter study of Thai stroke rehabilitation registry. BMC Geriatr 2013; 13: 33-41.
 30. Sirisopon D, Leewanun C, Kuptniratsaikul V. The attitude and behavior of exercise of residents of Faculty of Medicine Siriraj Hospital. J Thai Rehabil Med 2011; 21: 50-5.
 31. Kuptniratsaikul V, Praditsuwan R, Assantachai P, Ploypitch T, Udompunturak S, Pooliam J. Effectiveness of simple balancing training program in elderly patients with history of frequent falls. Clin Interv Aging 2011; 6: 111-7.
 32. Kuptniratsaikul V, Pinthong T, Bunjob M, Thanakhumtorn S, Chinswangwatanakul P, Thamlikitkul V. Efficacy and Safety of *Derris scandens* Benth extracts in Patients with Knee Osteoarthritis. J Altern Complement Med 2011; 17: 147-53.
 33. Wattanapan P, Kovindha A, Piravej K, Kuptniratsaikul V. Relationship between the ability to change from a supine to a sitting position at admission and mobility outcomes after stroke rehabilitation. J Med Assoc Thai 2010; 93: S21-4.
 34. Kuptniratsaikul V, Teerasombat C, Leurcharusmee A, Kusump A. Group Education and Exercise Program for Overweight Knee Osteoarthritic Patients. Siriraj Med J 2010; 62: 9-13.
 35. Muangpaisan W, Praditsuwan R, Assanasen J, Srinonprasert V, Assantachai P, Intalapaporn S, Chatthanawaree W, Dejpratham P, Kuptniratsaikul V, Pisalsalakij D. Caregiver Burden and Needs of Dementia Caregivers in Thailand: A Cross-Sectional Study. J Med Assoc Thai 2010; 93: 601-7.

36. Kuptniratsaikul V. Summary of a registry of rehabilitation for Thai stroke patients: A multicenter study. *J Thai Rehabil* 2010; 20: 103-8.
37. Kuptniratsaikul V, Thanakhumtorn S, Chinswangwatanakul P, Watanamongkonsil L, Thamlikitkul V. Efficacy and Safety of Curcuma domestica Extracts in Patients with Knee Osteoarthritis. *J Altern Comple Med* 2009; 15: 891-7.
38. Kuptniratsaikul V, Kovindha A, Massakulpan P, Permsirivanich W, Srisa-an Kuptniratsaikul P. Inpatient Rehabilitation Services for Stroke Patients in Thailand: a Multi-Center Study. *J Rehabil Med* 2009; 41: 684-6.
39. Kuptniratsaikul V, Kovindha A, Dajpratham P, Piravej K. Main outcomes of stroke rehabilitation: a multi-centre study in Thailand. *J Rehabil Med* 2009; 41: 54-8.
40. Kuptniratsaikul V, Kovindha A, Suethanapornkul S, Manimmanakorn N, Archongka Y. Complications during the rehabilitation period in Thai patients with stroke: a multicenter prospective study. *Am J Phys Med Rehabil* 2009; 88: 92-9.
41. Kovindha A, Wattanapan P, Dejpratham P, Permsirivanich W, Kuptniratsaikul V. Prevalence of incontinence in patients after stroke during rehabilitation: a multi-centre study. *J Rehabil Med* 2009; 41: 489-91.
42. Dajpratham P, Kuptniratsaikul V, Kovindha A, Kuptniratsaikul PS, Dejnuntarat K. Prevalence and management of poststroke spasticity in Thai stroke patients: a multicenter study. *J Med Assoc Thai* 2009; 92: 1354-60.
43. Permsirivanich W, Tipchatyotin S, Piravej K, Juntawises U, Kuptniratsaikul V, Ma-A-Lee A. Factors influencing home modification of stroke patients. *J Med Assoc Thai* 2009; 92: 101-7.
44. Kuptniratsaikul V, Kovindha A, Massakulpan P, Piravej K, Suethanapornkul S, Dajpratham P, et al. An epidemiologic study of the Thai Stroke Rehabilitation Registry (TSRR): a multi-center study. *J Med Assoc Thai* 2008; 91: 225-33.
45. Suethanapornkul S, Srisa-an Kuptniratsaikul P, Kuptniratsaikul V, Uthensut P, Dajpratha P, Wongwisethkarn J. Post stroke shoulder subluxation and shoulder Pain: A cohort multicenter study. *J Med Assoc Thai* 2008; 91: 1885-93.
46. Archongka Y, Manimmanakorn N, Kuptniratsaikul V, Solunda S, Yee-heng P. Unit cost of stroke rehabilitation. *J Med Assoc Thai* 2008; 91: 1257-62.
47. Manimmanakorn N, Vichiansiri R, Nuntharuksa C, Permsirivanich W, Kuptniratsaikul V. Quality of life after stroke rehabilitation among urban vs. rural patients in Thailand. *J Med Assoc Thai* 2008; 91: 394-9.
48. Manimmanakorn N, Arrayawichanon P, Wattanapun P, Nuntharuksa P, Kuptniratsaikul V. Age-related rehabilitation outcome in stroke patients. *J Med Assoc Thai* 2008; 91: 388-93.

49. Masskulpan P, Riewthong K, Dajpratham P, Kuptniratsaikul V. Anxiety and depressive symptoms after stroke in 9 rehabilitation centers. *J Med Assoc Thai* 2008; 91: 1595-602.
50. Kovindha A, Kuptniratsaikul V, Dajpratham P, Massakulpan P, Piravej K, Archongka Y, Suethanapornkul S, Manimmanakorn N, Permsirivanich W, Srisa-an Kuptniratsaikul P. Thai Stroke Rehabilitation Registry (TSRR). *J Thai Rehabil Med* 2007; 17: 31-6.
51. Rattanachaiyanont M, Kuptniratsaikul V. No additional benefit of shortwave diathermy over exercise program for knee osteoarthritis in peri-/post-menopausal women: an equivalence trial. *Osteoarthritis Cartilage* 2008; 16: 823-8.
52. Kuptniratsaikul V, Rattanachaiyanont M. Validation of a Modified Thai version of the Western Ontario and McMaster (WOMAC) Osteoarthritis Index for Knee Osteoarthritis. *Clin Rheumatol* 2007; 26: 1641-5.
53. Kuptniratsaikul V, Smathajitt A, Danputipong P, Ratanachoti P, Graisorn N, Marktuam S, et al. Disability assessment in elderly orthopedic patients. *J Med Assoc Thai* 2007; 90: 2192-7.
54. Kuptniratsaikul V, Dejpratham P, Praditsuwan R. The timed Up & Go: the practical basic mobility skills assessment. *Siriraj Hosp Gaz* 2006; 58: 588-91.
55. Kuptniratsaikul V, Kuptniratsaikul S. Intra-articular injection of Deproteinized Hemodialysate in osteoarthritis of the knee: A case-series. *J Med Assoc Thai* 2004; 87: 100-5.
56. Kuptniratsaikul V. Epidemiology of spinal cord injuries: A study in Siriraj spinal unit, Thailand, 1997-2000. *J Med Assoc Thai* 2003; 86: 1116-21.
57. Kuptniratsaikul S, Kuptniratsaikul V, Udompunturak S, et al. The measurement of the Semitendinosus muscle tendon length: A cadaveric study in King Chulalong Memorial Hospital. *Chula Med J* 2002; 46: 123-30.
58. Kuptniratsaikul S, Kuptniratsaikul V, Tanprasert S, et al. Suprascapular nerve entrapment :A case report of an uncommon site and uncommon pathology of the lesion. *Chula Med J* 2002; 46: 155-62.
59. Kuptniratsaikul V, Tosayanonda O, Nilkanuwong S, Thamalikitkul V. The efficacy of exercise to improve functional performance in knee osteoarthritis. *J Med Assoc Thai* 2002; 85: 33-40.
60. Kuptniratsaikul V, Tosayanonda O, Nilkanuwong S, Thamalikitkul V. The epidemiology of knee osteoarthritis patients. *J Med Assoc Thai* 2002; 85:154-61.
61. Kuptniratsaikul V, Julakabkabba S, Ratanavijitsilpa S. An instrument for assessment of depression among spinal cord injury patients: Comparison between the CES-D and TDI. *J Med Assoc Thai* 2002; 85: 978-83.

62. Kuptniratsaikul V, Smerasuta O, Klomjaiyen P. The Perceived Handicap Questionnaire: A self perceived handicap measurement in patients with spinal cord injury. *J Med Assoc Thai* 2002; 85: 935-9.
63. Rattanachaiyanont M, Kuptniratsaikul V, Dangrat, C. Distal Radius Bone Mineral Density and Grip Strength in Peri/Postmenopausal Thai Women. *J Med Assoc Thai* 2002; 85:1008-1013.
64. Kuptniratsaikul V, Praditsuwan R, Sangsirinakakul C. Psychological Health of the Elderly: An Overlook in Clinical Practice. *J Geron Geriatr Med* 2002; 3: 33-8.
65. Tantibhaedhyangkul P, Kuptniratsaikul V, Tosayanonda O. Grip and Quadriceps strength: Normative values in the Thai population. *Siriraj Hosp Gaz* 2001; 53: 224-30.
66. Kuptniratsaikul V , Ratanarapee S, Kunanikom S, et al. The attitude of chronically ill patient and personnel to recreational activities. *Siriraj Hosp Gaz* 2001; 53:877-86.
67. Kuptniratsaikul V, Smerasuta O, Klomjaiyen P. Psychological conditions of spinal cord injury patients. *Siriraj Hosp Gaz* 2000; 52: 23-9.
68. Kuptniratsaikul V, Leureharusamee A, Nakasawan V. The study of attitude and health behavior in osteoarthritic elderly. *J Thai Rehabil* 2000; 9: 90-6.
69. Kuptniratsaikul V, Smerasuta O, Klomjaiyen P. The assessment of psychological health by the General Health Questionnaire-28, Thai version. *Siriraj Hosp Gaz* 2000; 52: 647-54.
70. Kuptniratsaikul V, Kaewnaree S, Leurcharusamee A, et al. Vocational and avocational activities after traumatic spinal cord injury. *Siriraj Hosp Gaz* 1999; 51: 77-85.
71. Kuptniratsaikul V, Wongsaranuchit Y, Ratanachoti P. Grip strength, pinch strength and quadriceps strength in Thai elderly. *Siriraj Hosp Gaz* 1999; 51: 158-65.
72. Prateepavanich P, Kuptniratsaikul V, Charoensak T. The relationship between myofascial trigger points of Gastrocnemius muscle and nocturnal calf cramps. *J Med Assoc Thai* 1999; 82: 451-9.
73. Nilmanut S, Kuptniratsaikul V, Pekuman P, et al. The study of the Center for Epidemiologic Studies-Depression scale (CES-D) in Thai people in Siriraj Hospital. *J Thai Rehabil* 1997; 6: 25-30.
74. Kuptniratsaikul V, Pekuman P. The study of the Center for Epidemiologic Studies- Depression Scale (CES-D) in Thai people. *Siriraj Hosp Gaz* 1997; 49: 442-8.
75. Kuptniratsaikul V. The prevalence of depression in Thai disable patients. *Siriraj Hosp Gaz* 1997; 49: 566-73.
76. Tantibhaedhyangkul P, Kuptniratsaikul V, Tosayanonda O. The study of the prevalence and the correlation factors of depression in stroke patients. *J Thai Rehabil* 1997; 7: 64-71.

77. Kuptniratsaikul V. The prevalence of the elderly patients of Rehabilitation Medicine Department. Siriraj Hosp Gaz 1996; 48: 302-7.
78. Kuptniratsaikul V, Nakasawan V. The effect of group therapy in knee osteoarthritic patients. Siriraj Hosp Gaz 1996; 48: 777-84.
79. Kuptniratsaikul V. Functional assessment in Thai elderly patients. Sirriaj Hosp Gaz 1996; 48: 976-82.
80. Sampasneetamrong S, Kuptniratsaikul V, Tosayanonda O. Compliance to exercise in elderly with osteoarthritis of the knee. J Thai Rehabil 1996; 6: 19-23.
81. Thongsopit V, Riewpaiboon W, Kuptniratsaikul V, Tosayanonda O. Functional ability of elderly Thai people in activities of daily living and ambulation. J Thai Rehabil 1995; 4: 11-17.
82. Kuptniratsaikul V. The study of different latencies of the median and ulnar nerve to the ring finger, normal and carpal tunnel syndrome cases. J Thai Rehabil 1992; 1: 7-15.