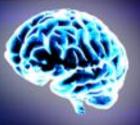




Eisai

Eisai Korea Inc.

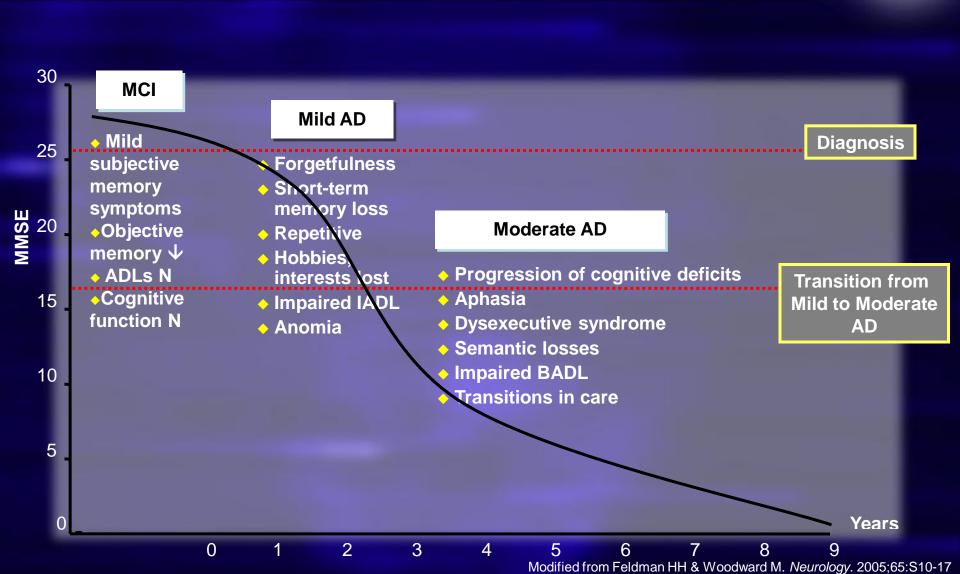
What is Alzheimer's disease?



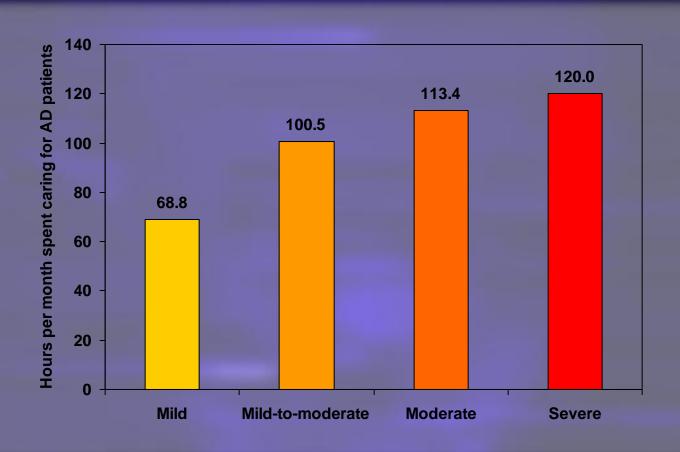
- A progressive, degenerative disease
- Its core symptoms are:
 - Cognitive decline
 - Functional decline
 - Behavioral disturbances
- Neurofibrillary tangles and plaques may lead to loss of cholinergic neuronal function
- Cholinergic hypothesis
- -cholinergic deficit in cerebral cortex triggered Alzheimer's disease

Symptom Progression in AD



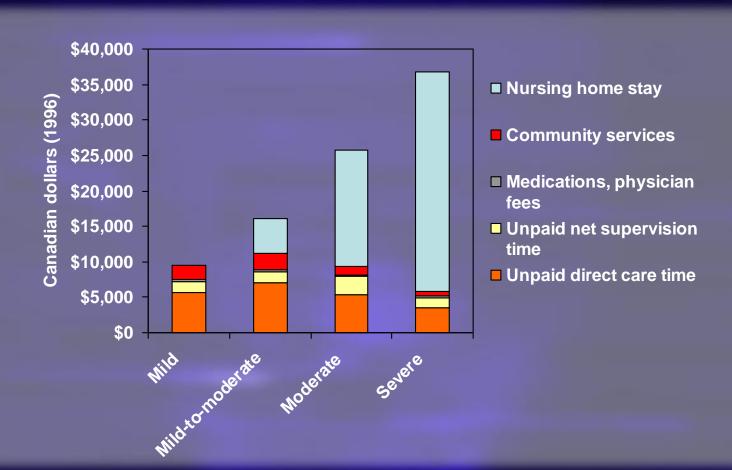


AD Caregiver Time by Disease Severity



Mean Annual Cost of AD by Disease Severity





ARICEPT (Donepezil HCI)



- Donepezil 5mg & 10mg Tablet
- High bioavailability
- Long half life(70h) and Once daily
- No titration to reach effective dose
- Selective to CNS AChE (AChE>BuchE, IC50 Ratio = 1252/1)
- May be taken with or without food
- Aricept® is the only AChE inhibitor indicated for mild to severe Alzheimer's disease and Vascular Dementia treatment

ARICEPT (Donepezil HCI)



All Stage of AD

아리셉트는 Mild to Severe Alzheimer's Disease에 처방하실 수 있는 치매증상치료제입니다.

The 1st Choice of Dementia Treatment

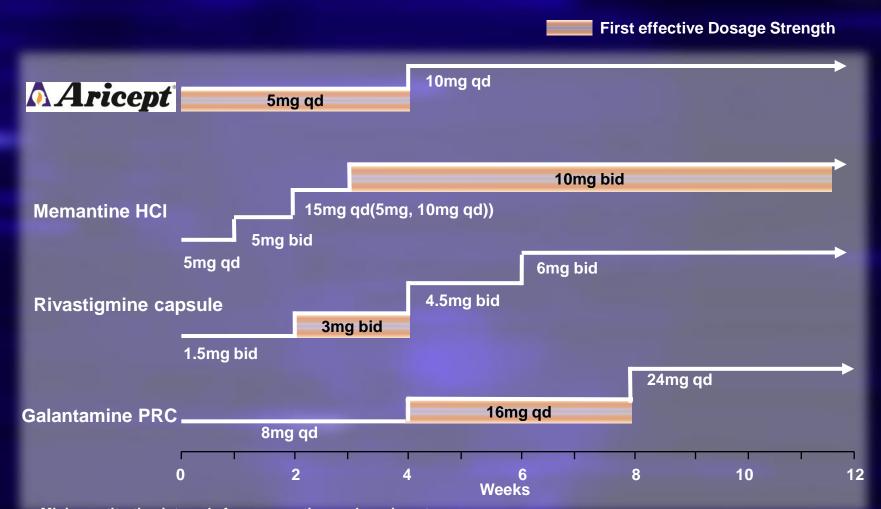
아리셉트는 Alzheimer's Disease, Vascular Dementia에 처방하실 있는 치매증상치료제입니다.

Convenience

아리셉트는 임상적으로 유효약용량에 도달하기 위한 titration 기간이 필요 없는 치매증상 치료제입니다.

Mechanism of ARICEPT Dose escalation schedule

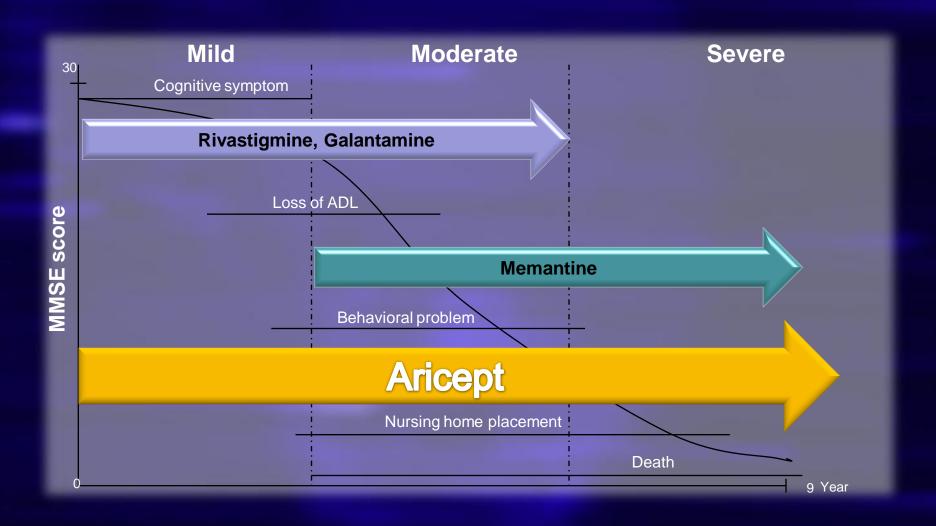




- Minimum titration intervals from respective package inserts.
- Rivastigmine should be administered with food. It is preferable to administer Galantamine with food.

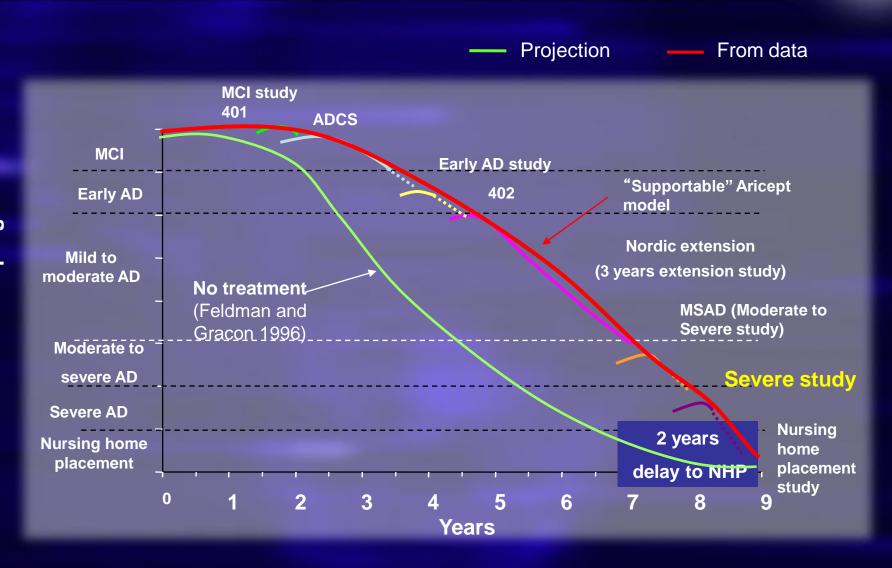
ARICEPT is the only AChE-I for all stage of AD



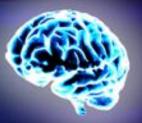


Proven efficacy of ARICEPT through all dementia course





MCI study (Neurology 2004;63:651-657)





Efficacy of donepezil in mild cognitive impairment

A randomized placebo-controlled trial

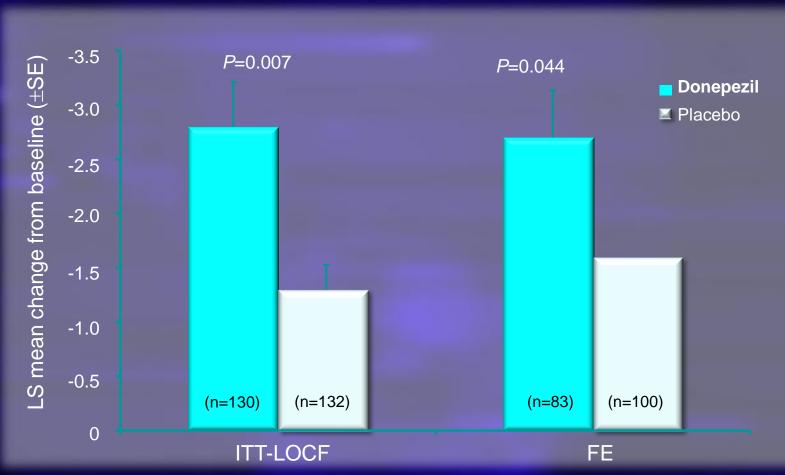
S. Salloway, MD, MS; S. Ferris, PhD; A. Kluger, PhD; R. Goldman, PhD; T. Griesing, PhD; D. Kumar, MS; and S. Richardson, PhD, for the Donepezil "401" Study Group*

- <u>Design</u>: 24-week, multicenter, randomized, double-blind, placebo-controlled study
- Patients: A total of 270 patients with MCI (24≤MMSE score) were enrolled and randomized to receive either donepezil or placebo

Result of MCI study (1)



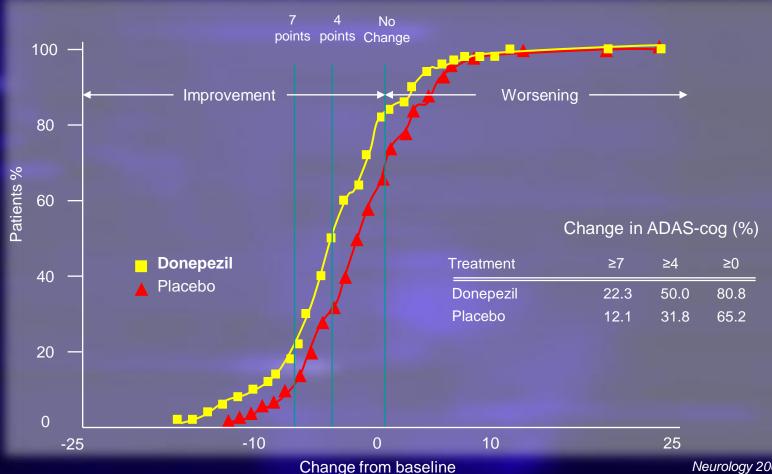
Modified ADAS-cog Score at Week 24







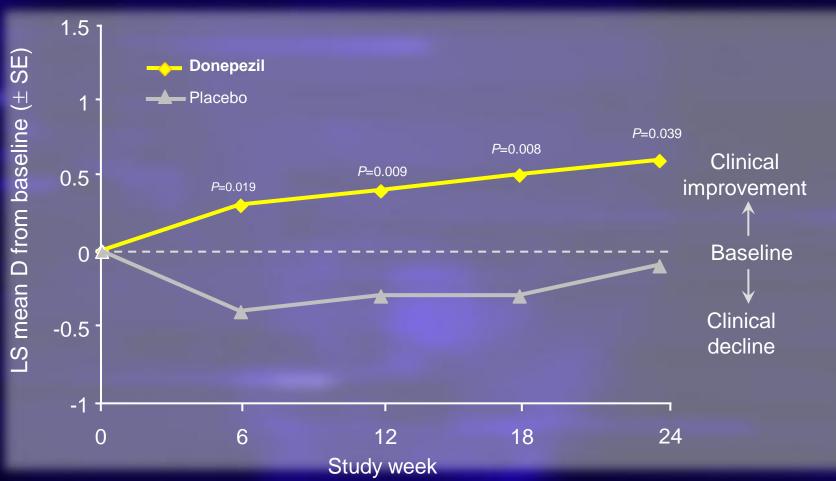
Cumulative percentage of patients with specified changes from baseline in ADAS-cog



Result of MCI study (3)



WMS-R Digit Span Backwards Test Scores (FE)



MCI long term study (comparison with VitE & Placebo)



The NEW ENGLAND JOURNAL of MEDICINE

ESTABLISHED IN 1812

JUNE 9, 2005

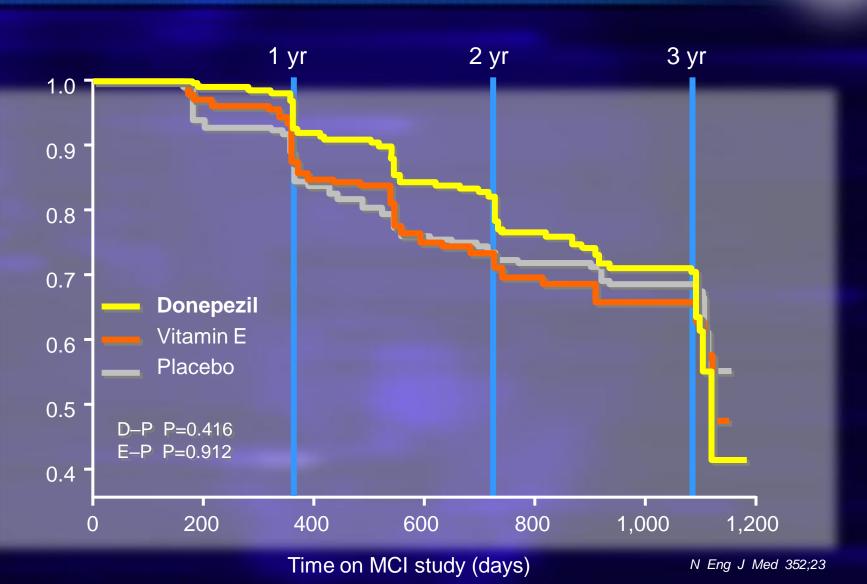
VOL. 352 NO. 23

Vitamin E and Donepezil for the Treatment of Mild Cognitive Impairment

- <u>Design</u>: 3 years, randomized, multicenter, randomized, double-blind, placebo-controlled, parallel study
 - (→ Open-label donepezil after conversion to AD)

ARICEPT delays conversion to dementia





Benefit for early stage AD patients'



Efficacy of Donepezil in Early-Stage Alzheimer Disease

A Randomized Placebo-Controlled Trial

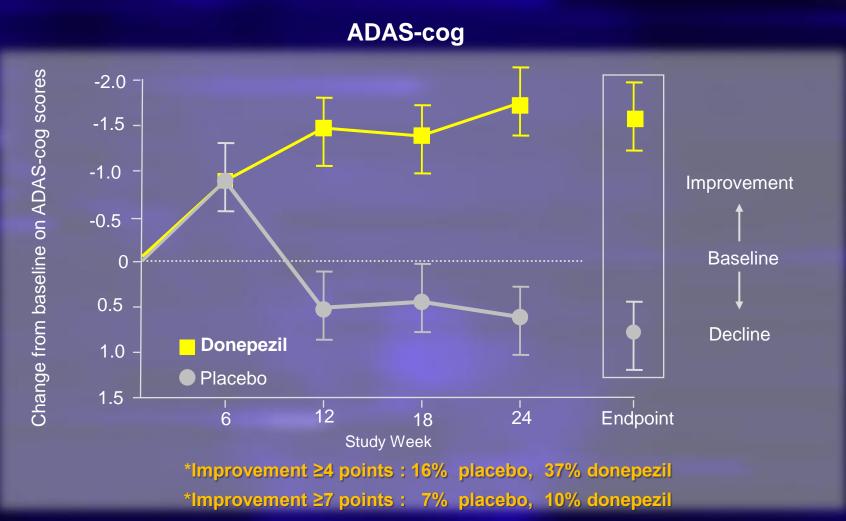
Ben Seltzer, MD; Parvaneh Zolnouni, MD; Margarita Nunez, MD; Robert Goldman, PhD; Dinesh Kumar, MA; John Ieni, PhD; Sharon Richardson, PhD; for the Donepezil "402" Study Group

Arch Neurol. 2004;61:1852-1856

- <u>Design</u>: 24-week, multicenter, randomized, double-blind, placebo-controlled study
- <u>Patients</u>: A total of 153 patients with early AD (21≤ MMSE score ≤26) were enrolled and randomized to receive either donepezil or placebo

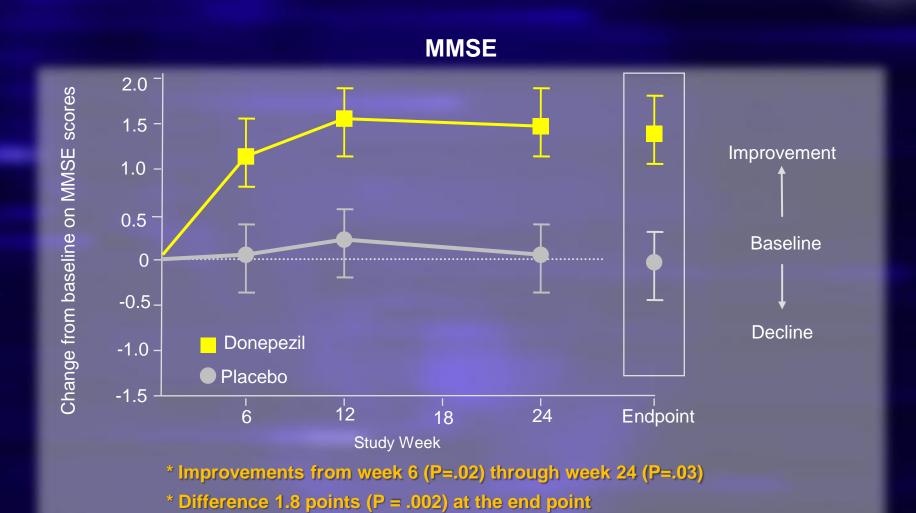
Result of Early AD study (1)





Result of Early AD study (2)





Mild to Moderate AD (Nordic study 2001)

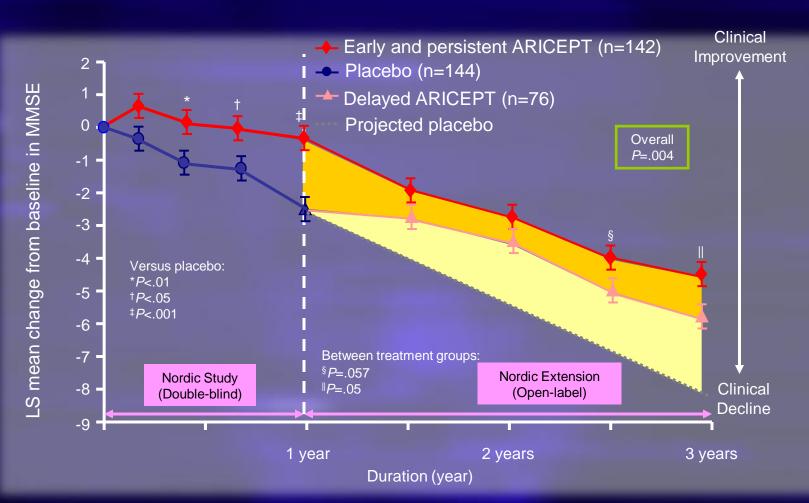


3-Year Study of Donepezil Therapy in Alzheimer's Disease: Effects of Early and Continuous Therapy

- B. Winblad^a A. Wimo^b K. Engedal^c H. Soininen^d F. Verhey^e
- G. Waldemar^f A.-L. Wetterholm^g A. Haglund^g R. Zhang^h R. Schindler^h for the Donepezil Nordic Study Group
- <u>Design</u>: 52-week, double-blind phase (1 year)→ open-label extension (2 year)

 strotal 3 year nordic extension study
- Patients: N=286 with possible or probable AD (MMSE 10~26)
 - donepezil 5mg/day for 4 weeks, followed by 10mg/day

Benefit of early and persistent treatment



Efficacy of ARICEPT for Moderate to Severe AD



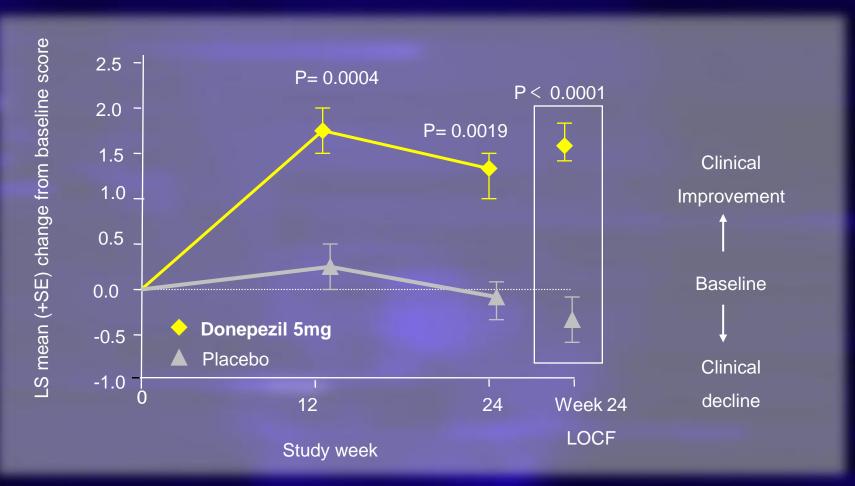
A 24-week, randomized, double-blind study of donepezil in moderate to severe Alzheimer's disease

H. Feldman, MD; S. Gauthier, MD; J. Hecker, MD, B. Vellas, MD, PhD; P. Subbiah, MD; E. Whalen, PhD, and the Donepezil MSAD Study Investigators Group*
NEUROLOGY 2001;57:613–620

- <u>Design</u>: 24-week, multicenter, randomized, double-blind, placebo-controlled, parallel-group study
- <u>Patients</u>: 290 patients (sMMSE 5 to 17) were randomized to receive either donepezil or placebo

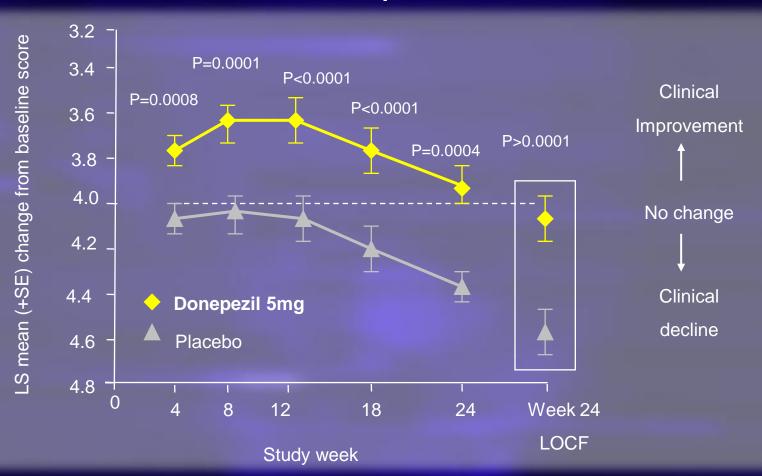
Result of Moderate to Severe AD (1)

sMMSE



Result of Moderate to Severe AD (2)

CIBIC-plus



Efficacy of ARICEPT for Severe AD

Efficacy and safety of donepezil in patients with more severe Alzheimer's disease: a subgroup analysis from a randomized, placebo-controlled trial

Howard Feldman¹*, Serge Gauthier², Jane Hecker³, Bruno Vellas⁴, Yikang Xu⁵, John R. Ieni⁶, Elias M. Schwam⁷ and the Donepezil MSAD Study Investigators Group

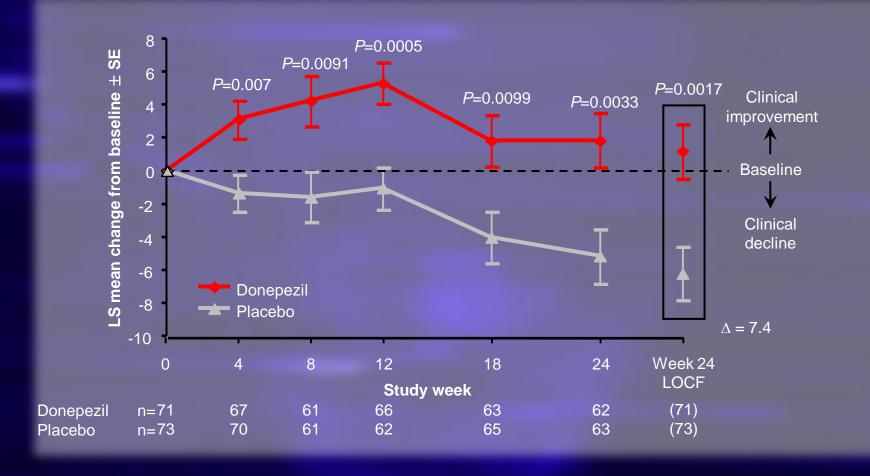
Int J Geriatr Psychiatry 2005; 20: 559-569

- <u>Design</u>: 24-week, multicenter, randomized, double-blind, placebocontrolled study
- <u>Patients</u>: A total of 145 patients with more severe AD (sMMSE 5 to 12)
 were enrolled and randomized to receive either donepezil or placebo



Result: SIB

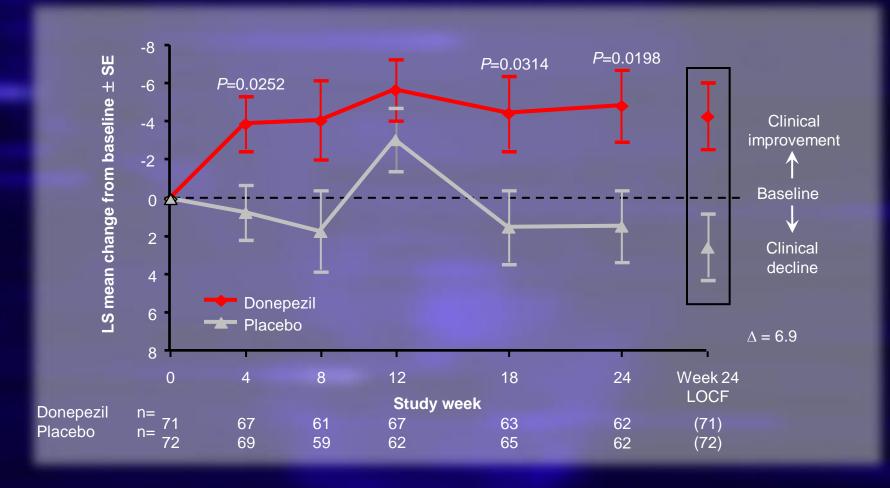
SIB



Result: NPI



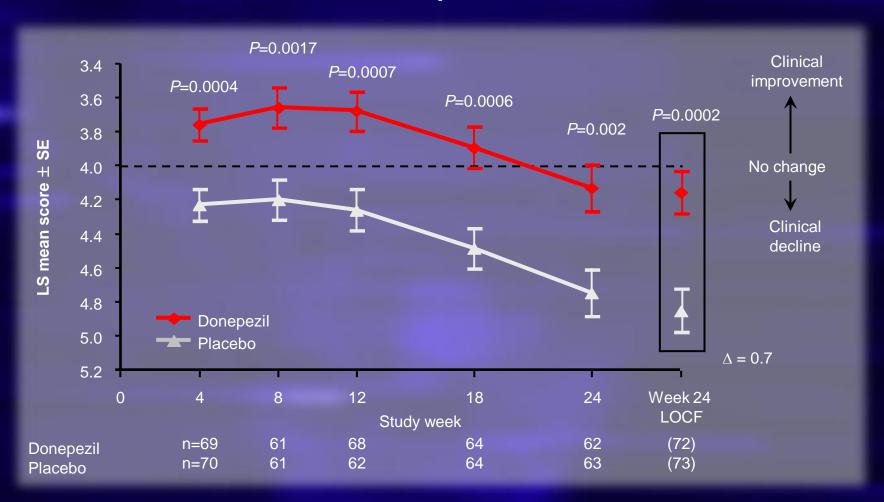
12-Item NPI Total







CIBIC-plus

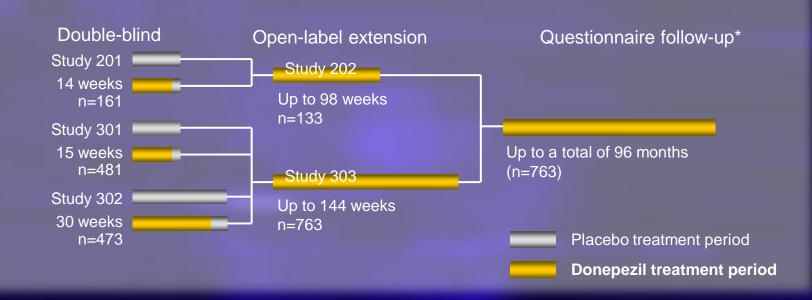




Efficacy of ARICEPT for DNHP

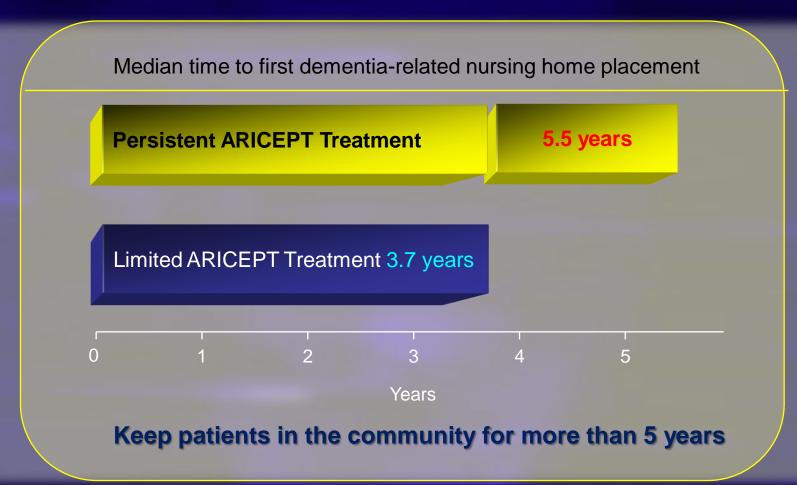
Donepezil Is Associated with Delayed Nursing Home Placement in Patients with Alzheimer's Disease

David S. Geldmacher, MD, *† George Provenzano, PhD,† Thomas McRae, MD, Vera Mastey, MS, and John R. Ieni, PhD!



2 year delay to NHP





Long-term efficacy of ARICEPT





European Neuropsychopharmacology 10 (2000) 195-203

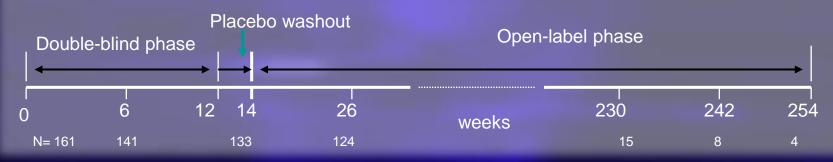
EUROPEAN NEURO-PSYCHOPHARMACOLOGY

www.elsevier.com/locate/euroneuro

Long-term efficacy and safety of donepezil in the treatment of Alzheimer's disease: final analysis of a US multicentre open-label study

S.L. Rogers^{a,*}, R.S. Doody^b, R.D. Pratt^c, J.R. Ieni^c

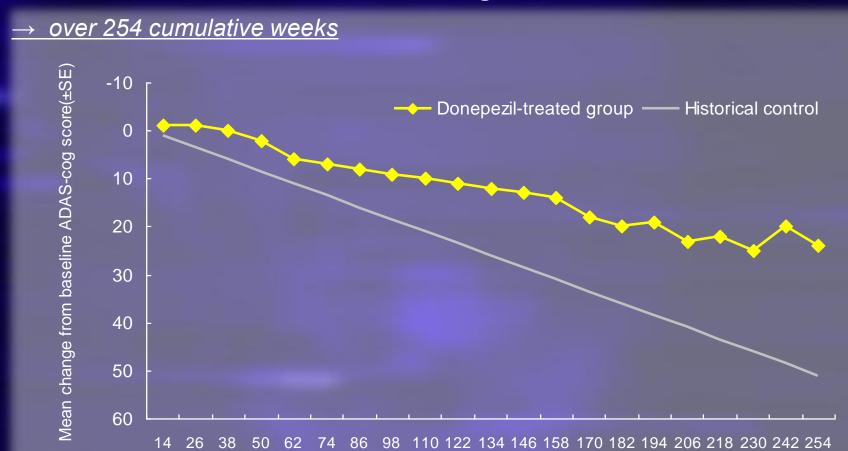
Design: for up to cumulative 254 weeks (4.9 years)



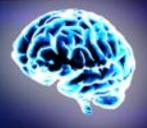
Result of long-term efficacy of ARICEPT



ADAS-cog



ARICEPT for severe BPSD



Effects of Donepezil on Neuropsychiatric Symptoms in Patients With Dementia and Severe Behavioral Disorders

Jeffrey L. Cummings, M.D., Thomas McRae, M.D., Richard Zhang, Ph.D., The Donepezil-Sertraline Study Group

Am J Geriatr Psychiatry 2006; 14: 605

Design: 8-week open-label,

12-week double-blind, placebo-controlled study

Patients: Probable or possible AD, according to NINCDS-ADRDA criteria, NPI ≥5

Open-label (n=275; mean age, 76.3 years)
Double-blind (n=120; mean age, 76.9 years)

Study Design

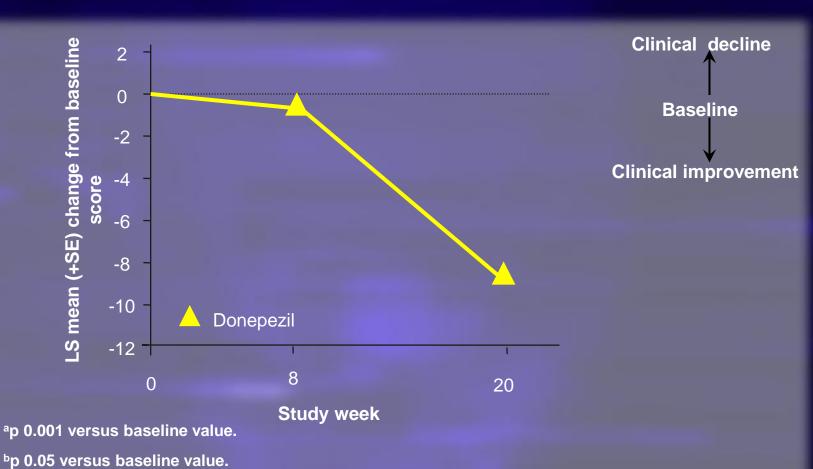


Phase 1	Open-label		Double-blind placebo-controlled
	8 weeks		12 weeks
275 Patients - Patients were withdrawn from psychotic medication	Donepezil 5mg/d	Donepezil 10mg/d (two 5 mg tablets)	Placebo+Donepezil siskleus is
	4 weeks	4 weeks	Sertraline+Donepezil
Week -	0	4 8	20

Result: NPI



NPI-12



ARICEPT for Safety and Tolerability

Adverse Event	Placebo (n=392)	Aricept® (n=501)
% of patients with any AEs	73	81
Diarrhea	4	10
Nausea	2	6
Vomiting	4	8
Anorexia	4	8
Headache	3	4
Dizziness	1	2
Insomnia	4	5

^{*} AEs reported in controlled Clinical Trials in ar Least 2% of patients receiving Aricept® and at higher frequency than placebo.



Summary

- ARICEPT® significantly improved cognition, global function and behavioral symptoms in patients with mild to severe AD.
- ARICEPT® shows the benefit in all course of AD patients
- ARICEPT® is safe and well tolerate in severe AD patients
- ARICEPT® is a only approved AChE-Inhibitors in severe AD and VaD

Aricept is the first choice of dementia treatment