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Méta-analyse des facteurs de risque de la seconde fracture de hanche chez les patients âgés

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Review

Meta-analysis of risk factors for the second hip fracture (SHF) in elderly patients



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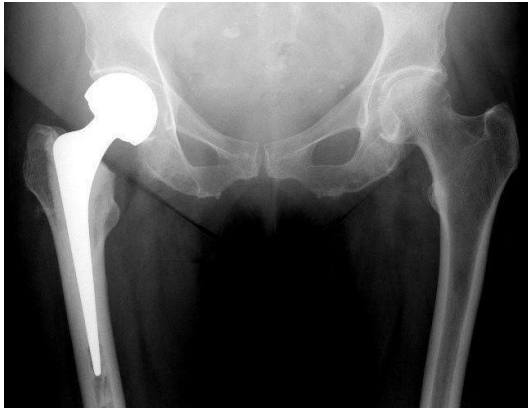
ABSTRACT

This study aims to quantitatively summarize the risk factors for the incidence of SHF. A meta-analysis was performed with the data obtained from 22 relevant papers published in Pubmed, Embase and Cochrane central database (all through January 2014) following strict selection. The pooled odds ratios (ORs) or standardized mean difference (SMD) with 95% confidence intervals (CIs) were calculated for potential risk factors associated with SHF. Our meta-analysis indicated the significant risk factors for SHF were female (OR, 1.46; 95%CI, 1.29–1.66), living in institutions (OR, 2.23; 95%CI, 1.29–3.83), osteoporosis (Singh index (SI) 1–3) (OR, 10.02; 95%CI, 5.41–18.57), low vision (OR, 2.09; 95%CI, 1.06–4.12), dementia (OR, 1.89; 95%CI, 1.47–2.43), Parkinson (OR, 2.90; 95%CI, 1.41–5.95), cardiac diseases (OR, 1.32; 95%CI, 1.02–1.70) and respiratory disease (OR, 1.97; 95%CI, 1.16–3.32). Related strategies must be implemented on those involved with above-mentioned medical conditions to effectively prevent a SHF.

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La seconde fracture de hanche

Quels sont les facteurs favorisants ?



Méthodes

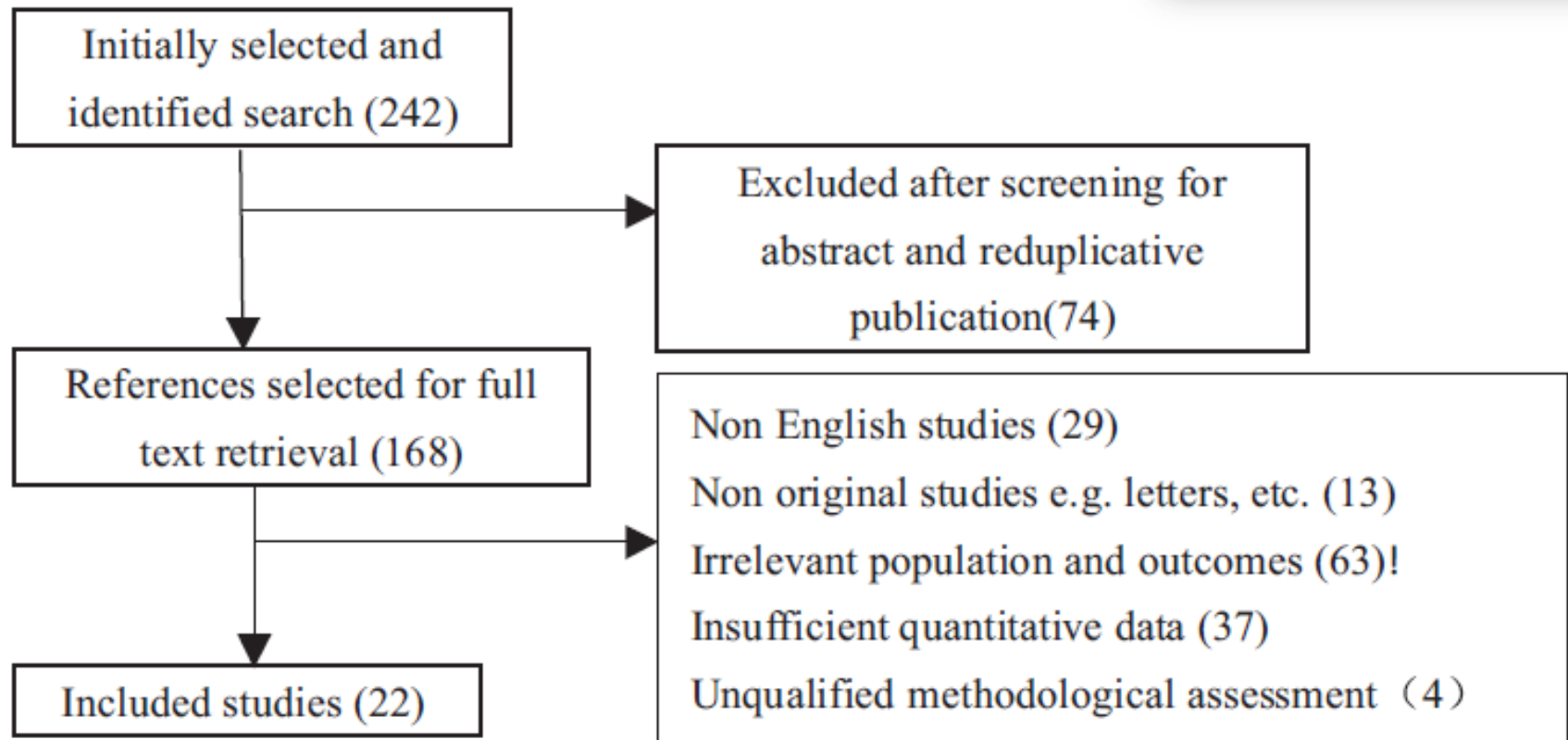
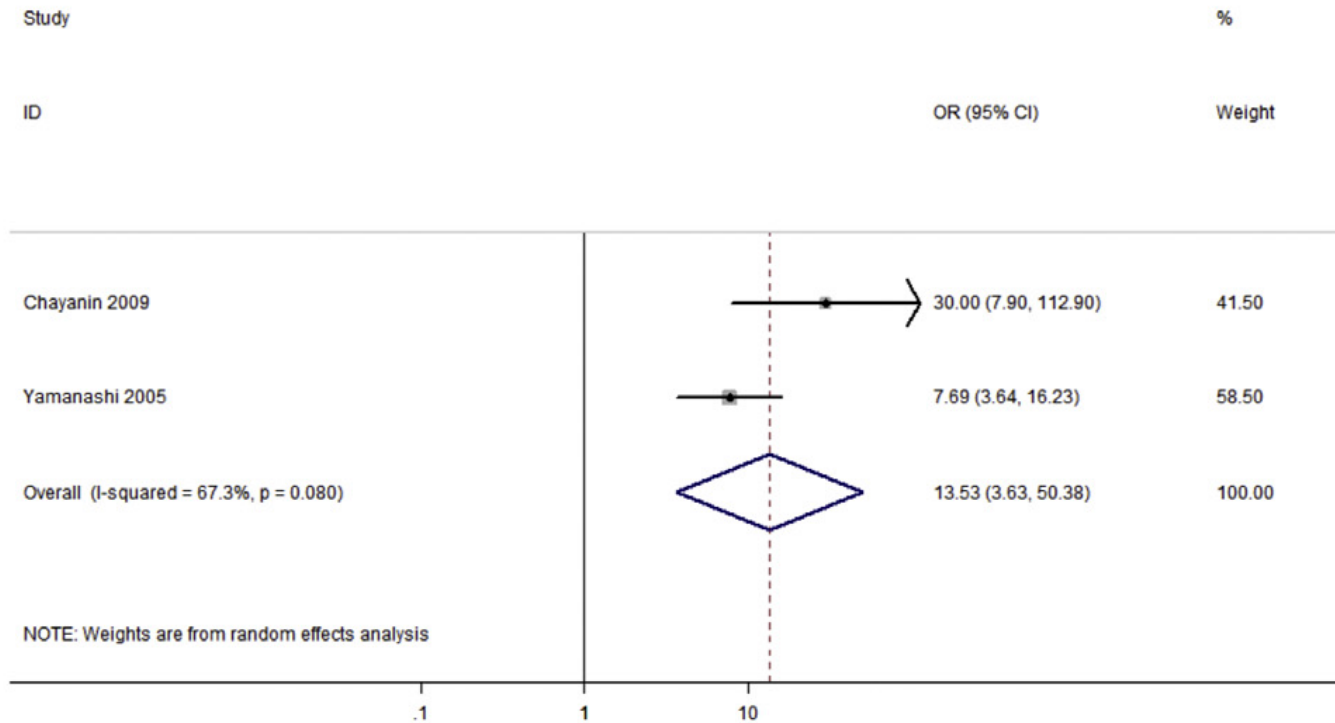


Fig. 1. Flow diagram of literature searching.

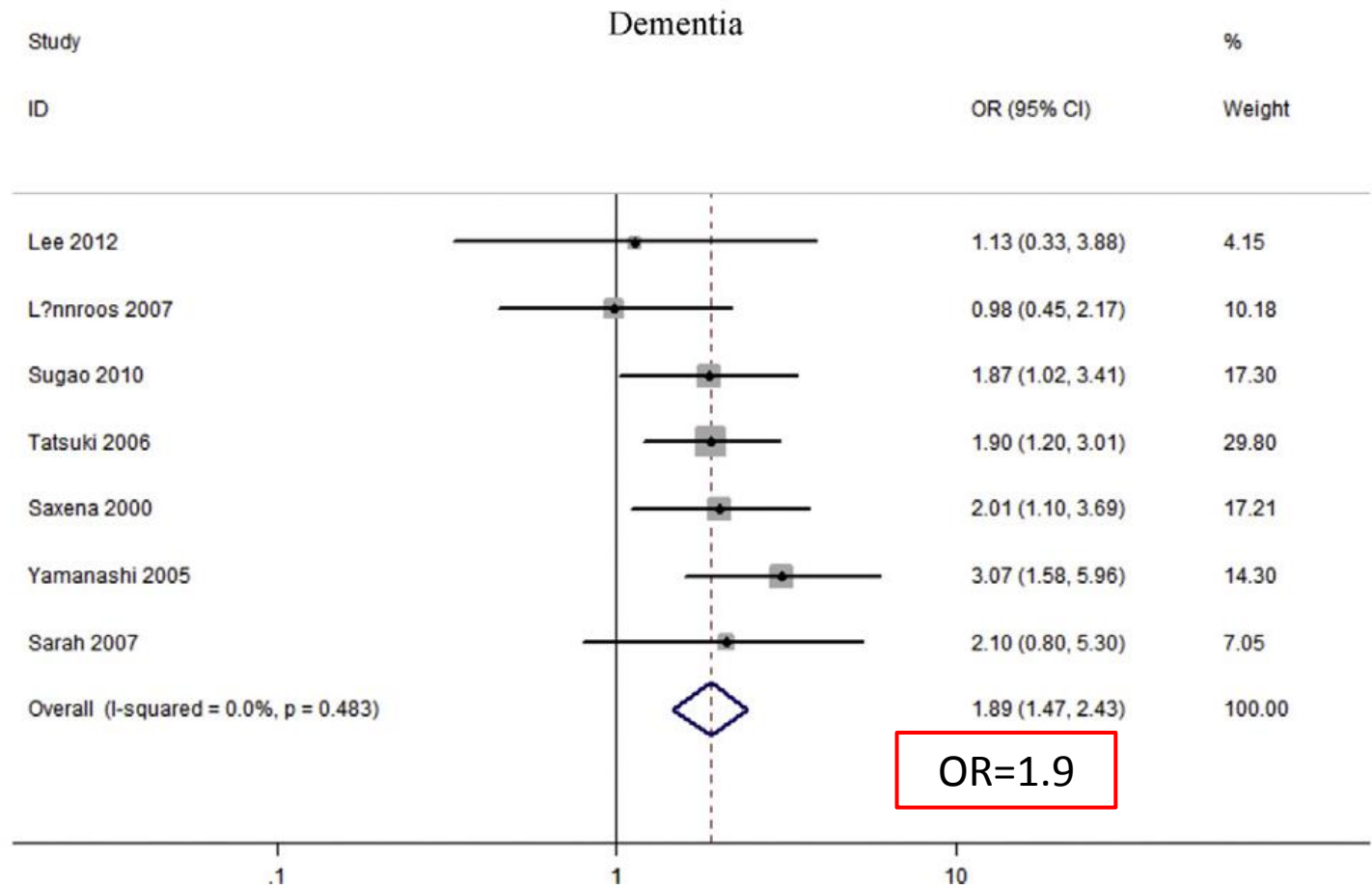
Ostéoporose

Osteoporosis (SI 1-3)

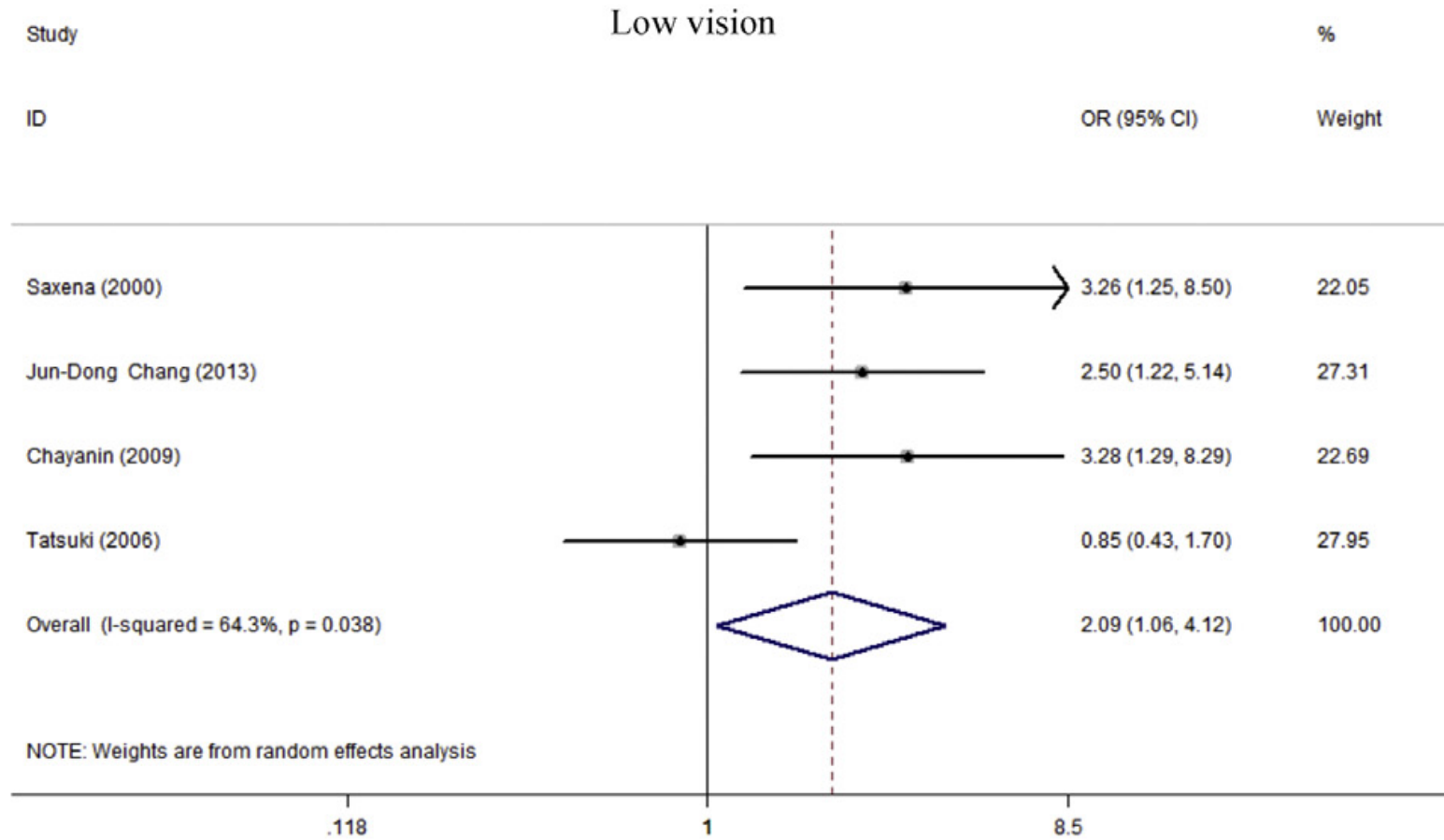


OR=13.5

Démence



Basse vision



Les facteurs de risque

Potential risk	No. of studies	Pooled OR or SMD	<i>P</i> value
Female	15	1.46	<0.001 ^a
Age	9	0.08	0.415 ^b
BMI	4	-0.10	0.144 ^a
Institutionalized	4	2.23	0.004 ^b
Dementia	7	1.89	<0.001 ^a
Low vision	4	2.09	0.034 ^b
Cardiac disease	7	1.32	0.032 ^a
Diabetes mellitus	7	1.35	0.132 ^b
Hypertension	5	0.97	0.806 ^a
Parkinson	2	2.90	0.004
Respiratory disease	6	1.97	0.011 ^b
Neurological diseases	8	1.17	0.244 ^b
Fracture type (femoral neck)	9	1.06	0.672 ^b
Surgical type (osteosynthesis)	3	0.75	0.311 ^b
Cognitive impairment	3	2.01	0.077 ^b
Osteoarthritis	3	1.47	0.483 ^b
Osteoporosis (SI 1-3)	2	10.02	<0.001 ^a
Alcoholism	2	1.93	0.266 ^a
Cancer	2	0.71	0.400 ^a



Research

Original Investigation

Effect of Citalopram on Agitation in Alzheimer Disease The CitAD Randomized Clinical Trial

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IMPORTANCE Agitation is common, persistent, and associated with adverse consequences for patients with Alzheimer disease. Pharmacological treatment options, including antipsychotics are not satisfactory.

OBJECTIVE The primary objective was to evaluate the efficacy of citalopram for agitation in patients with Alzheimer disease. Key secondary objectives examined effects of citalopram on function, caregiver distress, safety, cognitive safety, and tolerability.

DESIGN, SETTING, AND PARTICIPANTS The Citalopram for Agitation in Alzheimer Disease Study (CitAD) was a randomized, placebo-controlled, double-blind, parallel group trial that enrolled 186 patients with probable Alzheimer disease and clinically significant agitation from 8 academic centers in the United States and Canada from August 2009 to January 2013.

INTERVENTIONS Participants (n = 186) were randomized to receive a psychosocial intervention plus either citalopram (n = 94) or placebo (n = 92) for 9 weeks. Dosage began at 10 mg per day with planned titration to 30 mg per day over 3 weeks based on response and tolerability.

- ← Editorial page 677
- + Author Video Interview at jama.com
- + Supplemental content at jama.com

JAMA. 2014;311(7):682-691.



Contexte



Symptôme fréquent chez les patients ayant la maladie d'Alzheimer

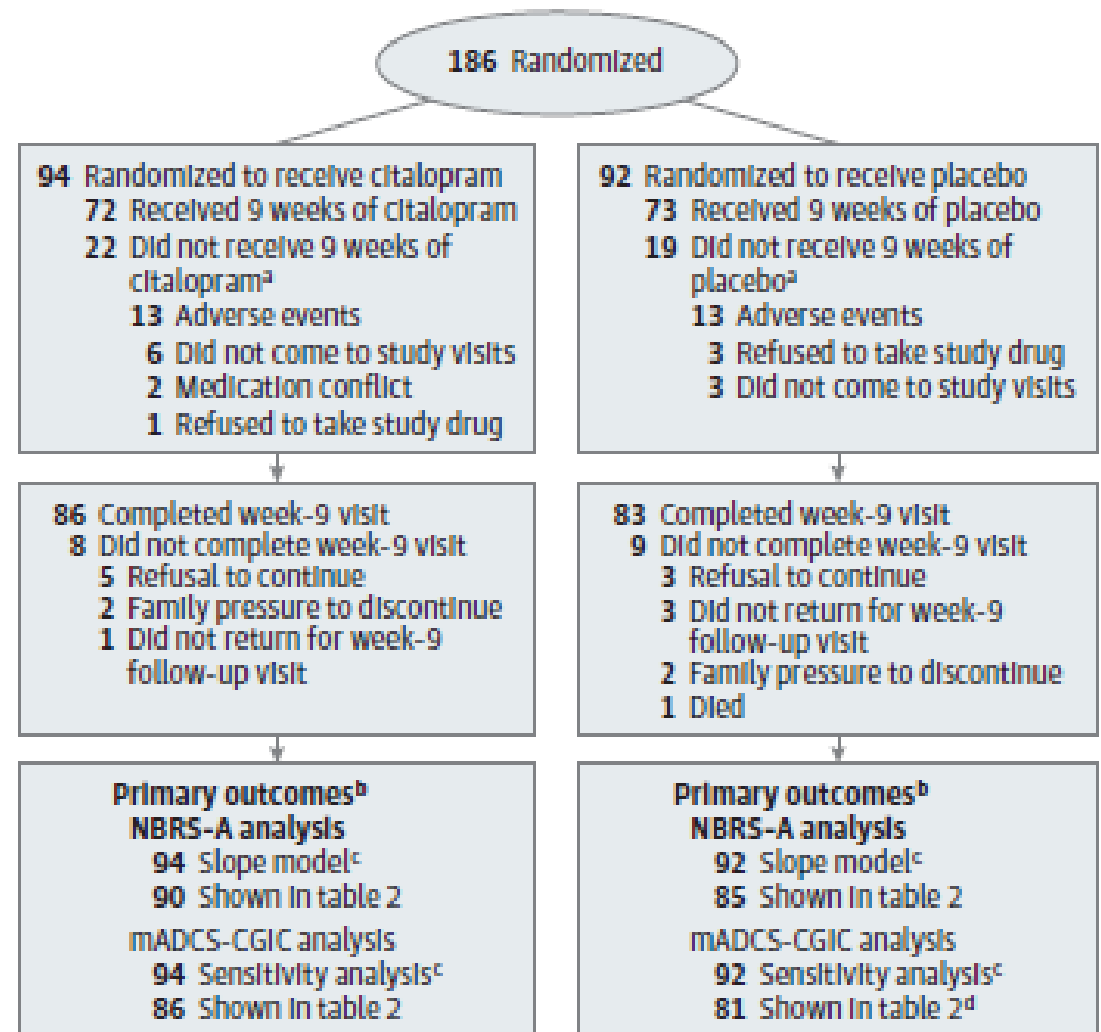
AGITATION

- Pas de traitement pharmacologique satisfaisant

**Essai randomisé contrôlé en double aveugle :
citalopram 30 mg/j VS placebo**



Figure 1. Participant Flow in Randomization to Citalopram vs Placebo for Agitation in Alzheimer Disease



Critères d'inclusion

- Maladie d'Alzheimer
- Avec agitation (NPI)
- Présence d'un aidant
- MMSE 5 à 28
- Tt IACE ou mémantine stable

Caractéristiques des patients

Table 1. Patient Characteristics at Baseline

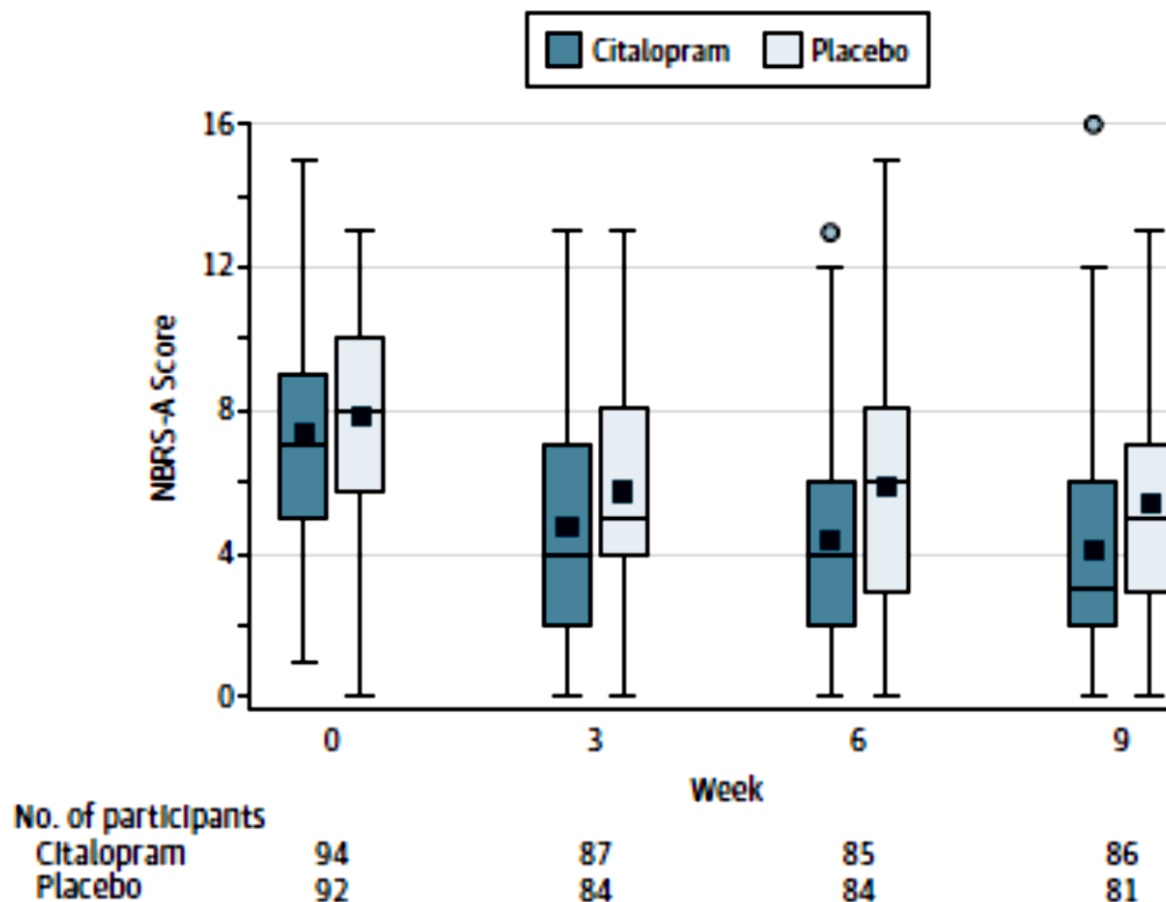
	Citalopram (n=94)	Placebo (n=92)
Age, mean (SD), y	78 (9)	79 (8)
Women, No. (%)	44 (47)	41 (45)
Highest education, No. (%)		
No high school diploma	25 (27)	27 (29)
High school diploma	20 (21)	23 (25)
Associates degree or some college	18 (19)	11 (12)
Bachelor's degree	21 (22)	16 (17)
Professional or graduate degree	10 (11)	15 (16)

Table 1. Patient Characteristics at Baseline

	Citalopram (n=94)	Placebo (n=92)
Duration of dementia, mean (SD), y	5 (4)	5 (4)
Concomitant medications, No. (%)		
Cholinesterase inhibitors	62 (66)	66 (72)
Memantine	41 (44)	37 (40)
Lorazepam	6 (6)	9 (10)
Trazodone	11 (12)	8 (9)
History of anxiety or mood disorder, No. (%) ^a	11 (12)	14 (15)
Assessment, mean (SD), score		
NBRS-A ^b	7.4 (3.3)	7.8 (3.0)
CMAI ^c	27.7 (6.7)	28.7 (6.7)
NPI ^d		
Total score	37.3 (17.5)	37.3 (17.7)
Agitation subscore	7.8 (2.2)	8.0 (2.4)
Depression subscore	2.2 (3.1)	1.9 (2.7)
Caregiver distress	16.8 (8.3)	16.8 (8.7)
MMSE ^e	17.0 (6.2)	14.4 (6.9)
ADCS-ADL ^f	44.6 (19.0)	41.1 (17.8)

Critère de jugement principal

Figure 2. Neurobehavioral Rating Scale (NBR5)-Agitation Subscale



Différence à 9 semaines
-0.93
(95%CI, -1.80 to -0.06),
 $P = .04$.

Autres effets

Item	Citalopram	Placebo	P
Clinical impression of change (amélioration)	40%	26%	0.007
Cohen-Mansfield (CMAI)	23.8	26.2	0.008
MMSE	-0.3	+0.9	0.03
ADL	40.1	41.1	NS
Allongement QT	12%	4%	
Perte de poids	1,2%	10,1%	0.02
Hyponatrémie	5%	8%	NS

Conclusion

- **Effet significatif** sur l'agitation dans la maladie d'Alzheimer (> placebo)
- Effet cliniquement pertinent (impression globale de changement)
- Effets secondaires à ceux attendus
- A confirmer par d'autres essais



CLINICAL INVESTIGATIONS

Effect of the Bathing Without a Battle Training Intervention on Bathing-Associated Physical and Verbal Outcomes in Nursing Home Residents with Dementia: A Randomized Crossover Diffusion Study

Pedro Gozalo, PhD, MSc,[†] Shivaani Prakash, MSc,[†] Danya M. Qato, PharmD, MPH, PhD,*[†] Philip D. Sloane, MD, MPH,^{‡§} and Vincent Mor, PhD*^{†¶}*

OBJECTIVES: To evaluate the effectiveness of the Bathing Without a Battle intervention in reducing physical and verbal aggressive behaviors for nursing home residents with dementia.

DESIGN: A randomized crossover diffusion study, with one group receiving the intervention after one round of baseline observations and a delayed intervention group receiving the intervention after two rounds of baseline

aggressive and agitated behaviors, particularly verbal, during residents' baths. The use of in-bed baths increased 17%, and average bath duration decreased significantly (average 1.5 minutes less) in the postintervention period, particularly for in-bed baths. Verbal behaviors declined 17.8% ($P = .008$), combined verbal and physical behaviors declined 18.6% ($P = .004$), and antipsychotic use declined 30% ($P = .002$) after the intervention.

CONCLUSION: The Bathing Without a Battle educa-

Bathing Without a Battle

Educational
CD-ROM & DVD

Creating a **better bathing experience** for persons with
Alzheimer's Disease and related dementias

CONTEXTE

Programme de recherche → toilette centrée sur le patient pour malades déments en institution et s'opposant à la toilette

- Évaluation du comportement des résidents
- Mise au point d'un programme de formation

OBJECTIF DE L'ETUDE

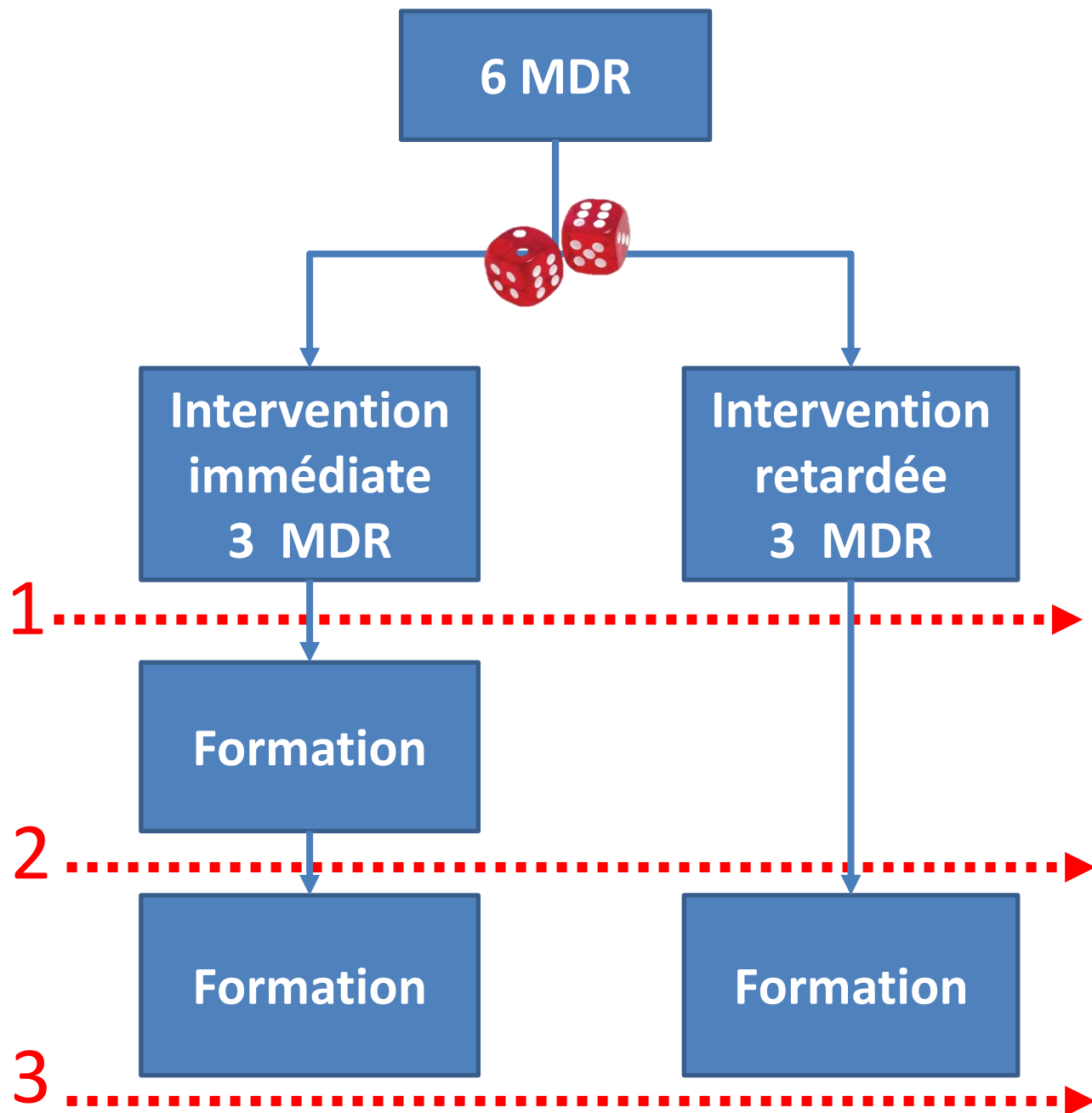
- Etude de dissémination : Quel effet du programme en maison de retraite

Méthodes

- 6 maisons de retraite de la région de New-York
- Etude randomisée en cross-over
- Intervention = programme de formation pour les personnes chargées de la toilette des résidents



DESIGN de l'étude



**Caractéristiques des
240 résidents**

➔ **Pas de différence
significative entre les
résidents des 2 groupes**

Characteristic	Total, N = 240
Age, mean $\pm$ SD	84.7 $\pm$ 11.2
Female, %	65.8
Activity of daily living score,	
Bed mobility	2.0 $\pm$ 1.5
Transfer	2.2 $\pm$ 1.5
Locomotion	2.2 $\pm$ 1.6
Dressing	3.1 $\pm$ 0.9
Eating	1.8 $\pm$ 1.5
Toileting	2.9 $\pm$ 1.3
Hygiene	3.1 $\pm$ 1.0
Bathing	3.4 $\pm$ 0.8
Incontinent of bladder, %	63.3
Incontinent of bowel, %	57.5
Any incontinence, %	67.9
Cognitive Performance Scale score, mean $\pm$ SD ^b	4.1 $\pm$ 1.2

Evolution des toilettes après la formation (obs 1 vs obs 3)

	Avant	Après	P
Douches	68,8%	56,9%	0,001
Toilette au lit	11,3%	28,5%	<0,001
Toilette au lavabo	11,9%	5,7%	<0,001
Durée de la toilette	9,4 +/- 5,2	7,9 +/- 4,1	<0,001

Effets sur le comportement des résidents

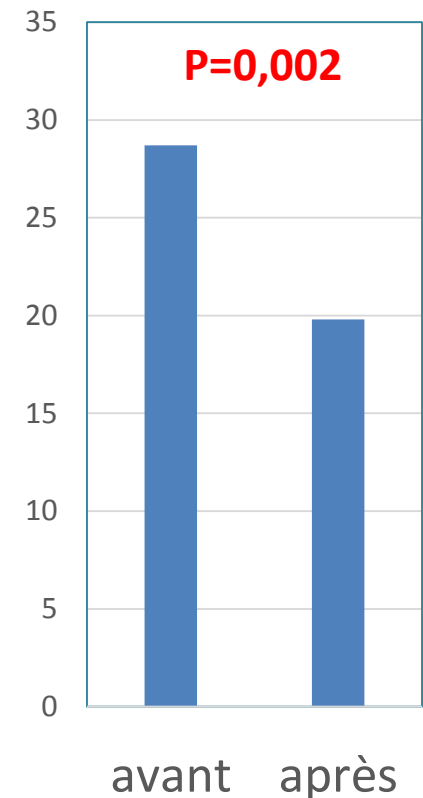
Table 4. Observed Behaviors for Group 1 and 2 Facilities According to Intervention Status: Percentage of Bath Time with Any Behavior

Behavior	Before Intervention		After Intervention		P-Value for Difference Between Before and After Intervention
	Group 1	Group 2	Group 1	Group 2	
Baths, n	263	403	329	115	
Outcome (percentage of bath time with any), mean $\pm$ SD					
Any physically or verbally aggressive or agitated behavior	22.6 $\pm$ 30.3	25.4 $\pm$ 32.9	19.6 $\pm$ 28.7	20.3 $\pm$ 32.1	.004
Any physically aggressive behavior	6.2 $\pm$ 17.1	4.8 $\pm$ 15.6	4.9 $\pm$ 13.9	3.8 $\pm$ 15.2	.39
Grabbing caregiver	4.7 $\pm$ 15.2	3.6 $\pm$ 12.8	3.3 $\pm$ 11.7	3.5 $\pm$ 14.9	.15
Hitting	3.2 $\pm$ 11.7	1.8 $\pm$ 10.4	2.2 $\pm$ 7.6	1.0 $\pm$ 6.6	.95
Kicking	0.3 $\pm$ 2.5	0.9 $\pm$ 8.1	0.3 $\pm$ 2.8	0.1 $\pm$ 1.2	.28
Biting	0.1 $\pm$ 1.5	0.7 $\pm$ 7.6	0.1 $\pm$ 1.0	0.5 $\pm$ 5.4	.39
Throwing objects	0.0 $\pm$ 0.0	0.6 $\pm$ 6.7	0.01 $\pm$ 1.3	0.0 $\pm$ 0.0	>.99
Spitting	0.7 $\pm$ 2.2	0.3 $\pm$ 6.2	0.4 $\pm$ 4.8	0.8 $\pm$ 5.0	.60
Any verbally aggressive or agitated behavior	20.9 $\pm$ 29.8	24.6 $\pm$ 32.8	18.8 $\pm$ 28.2	19.8 $\pm$ 31.6	.008
Aggressive language	2.2 $\pm$ 11.1	1.8 $\pm$ 9.3	1.7 $\pm$ 9.1	2.2 $\pm$ 16.0	.92
Call for help or protesting	19.5 $\pm$ 28.2	17.9 $\pm$ 28.1	17.4 $\pm$ 26.5	10.9 $\pm$ 22.1	.04
Yelling	6.7 $\pm$ 21.5	10.3 $\pm$ 24.8	7.4 $\pm$ 21.4	10.8 $\pm$ 25.7	.86

Effets sur le comportement des résidents

Behavior	P-Value for Difference Between Before and After Intervention
Baths, n	
Outcome (percentage of bath time with any), mean $\pm$ SD	
Any physically or verbally aggressive or agitated behavior	.004
Any verbally aggressive or agitated behavior	.008
Aggressive language	.92
Call for help or protesting	.04
Yelling	.86

% de résidents
ayant des
neuroleptiques





New Oral Anticoagulants in Elderly Adults: Evidence from a Meta-Analysis of Randomized Trials

Partha Sardar, MD, Saurav Chatterjee, MD,† Shobhana Chaudhari, MD,* and Gregory Y. H. Lip, MD‡*

OBJECTIVES: To evaluate the efficacy and safety of new oral anticoagulants (NOACs) in elderly adults.

DESIGN: Meta-analyses of randomized clinical trials (RCTs).

SETTING: PubMed, Cochrane Library, EMBASE, Web of Science, and CINAHL databases were searched from January 1, 2001, through March 30, 2013.

PARTICIPANTS: Elderly population (≥ 75) in RCTs comparing NOACs (rivaroxaban, apixaban, and dabigatran) with conventional therapy.

MEASUREMENTS: Two authors reviewed the trials, and odds ratios (ORs) were calculated using a random effects model.

RESULTS: Ten RCTs included 25,031 elderly participants. Risk of major or clinically relevant bleeding was not significantly different between NOACs and conventional therapy in elderly adults (OR = 1.02, 95% confidence interval = 0.73–1.43). Similar results were observed

Key words: new anticoagulants; elderly; meta-analysis

The prevalence of arterial and venous thromboembolic diseases increases with age.^{1–3} For individuals aged 80 to 90, risk of atrial fibrillation (AF) related stroke also increases with age; in the Framingham Study, 23.5% of strokes in individuals aged 80 and older were attributable to AF.⁴ Age 75 and older is considered a risk factor in stroke risk-stratification schemes and contributes 1 point toward a maximum risk score of 6 in the cardiac failure, hypertension, age, diabetes, stroke (CHADS₂) scheme.^{5,6} In the CHA₂DS₂-VASc score, aged 75 and older contributes 2 points toward a maximum score of 9.^{5,7} The prevalence of other risk factors, including hypertension, prior

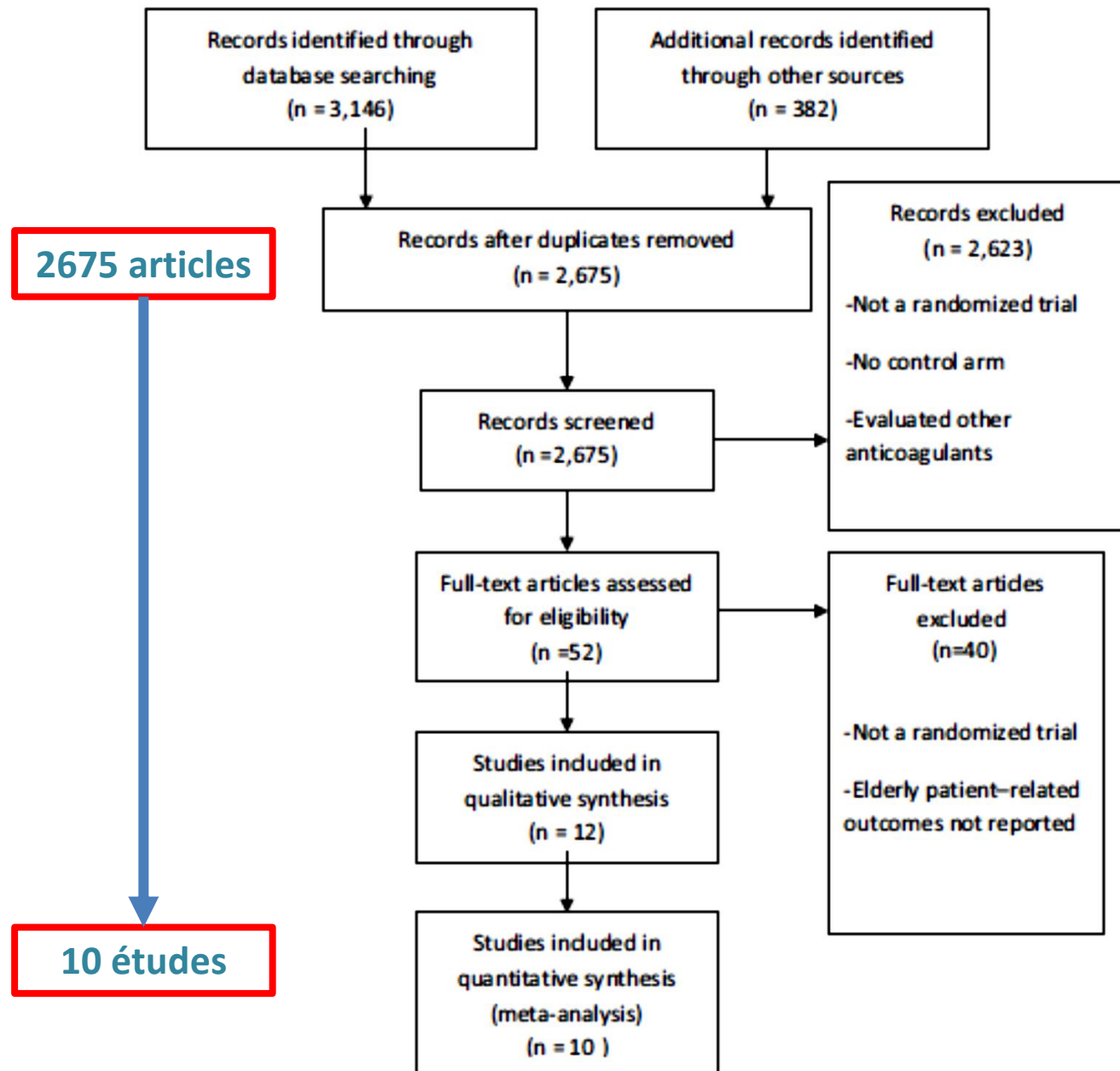
Objectifs de la méta-analyse

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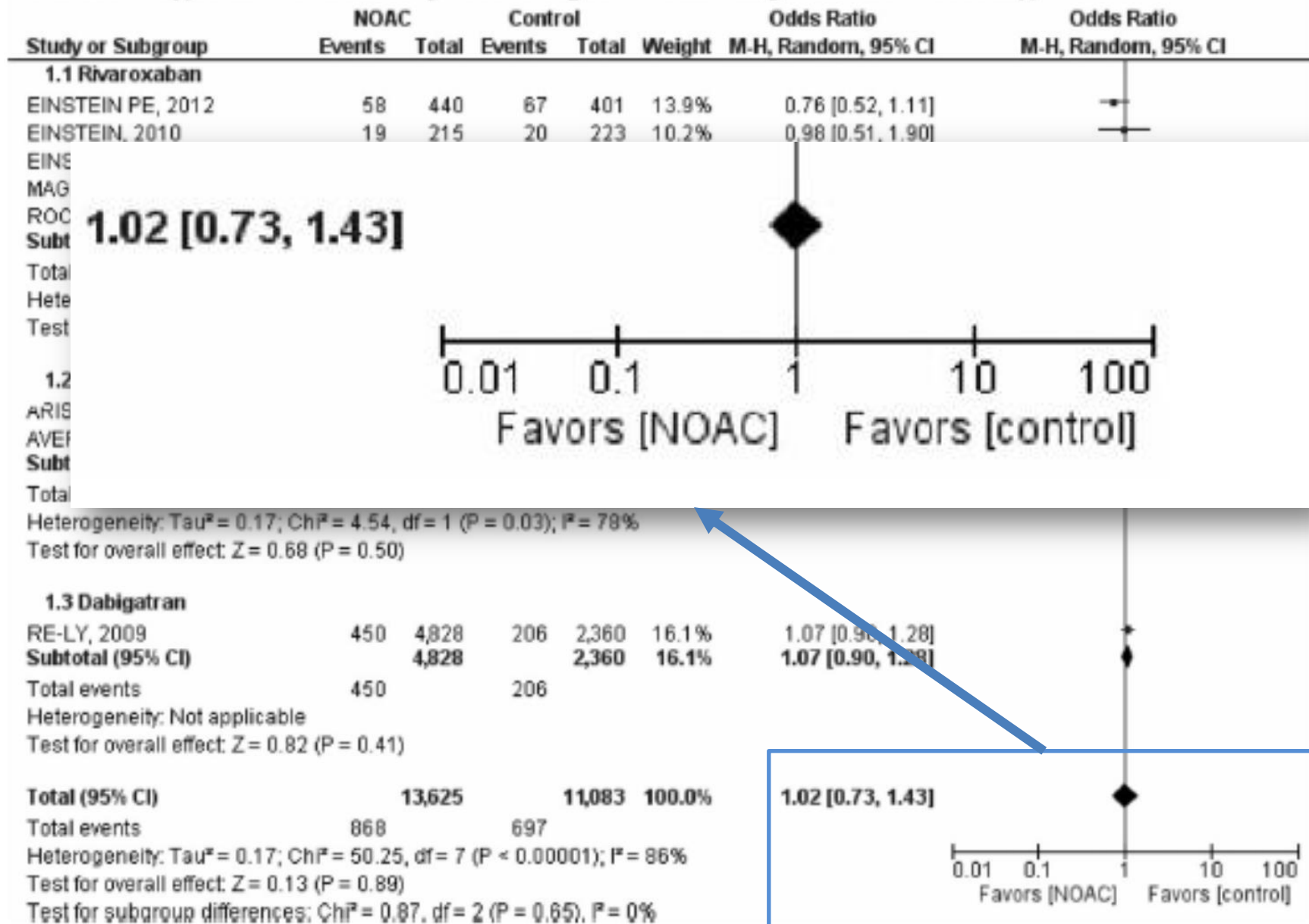


Les essais cliniques inclus

Trial (Reference)	Intervention	Control	NOAC Group According to Age, n	Control Group According to Age, n
Atrial fibrillation				
ROCKET-AF (2011) ²⁵	Rivaroxaban 20 mg once daily	Warfarin	>75 = 3,082 ^b	>75 = 3,082 ^b
ARISTOTLE (2011) ²⁷	Apixaban 5 mg twice daily	Warfarin	>75 = 2,743 65-75 = 3,504	>75 = 2,752 65-75 = 3,660
AVERROES (2011) ²⁸	Apixaban 5 mg twice daily	Aspirin	>75 = 909 81-324 mg/d 65-75 = 1,090	>75 = 983 65-75 = 942
RE-LY (2009) ³⁰	Dabigatran 150 mg twice daily	Warfarin	>75 = 4,828 ^b	>75 = 2,360 ^b
Acute VTE or pulmonary embolism				
EINSTEIN (2010) ²²	Rivaroxaban 15 mg twice daily for 3 weeks, followed by 20 mg once daily	Enoxaparin/VKA	>75 = 215 65-75 = 371	>75 = 225 65-75 = 382
EINSTEIN PE (2012) ²³	Rivaroxaban 15 mg twice daily for 3 weeks, followed by 20 mg once daily	Enoxaparin/VKA	>75 = 441 65-75 = 517	>75 = 402 65-75 = 532
Extended treatment of VTE				
EINSTEIN-Extension (2012) ²²	Rivaroxaban 20 mg daily	Placebo	>75 = 89 65-75 = 153	>75 = 99 65-75 = 121
AMPLIFY-EXT (2013) ²⁶	Apixaban 5 and 2.5 mg twice daily	Placebo	>75 = 220 65-75 = 318	>75 = 109 65-75 = 172
RE-MEDY (2013) ²⁹	Dabigatran 150 mg twice daily (N = 1,430)	Warfarin	>75 = 140 65-75 = 303	>75 = 119 65-75 = 288
Medically ill participants				
MAGELLAN (2013) ²⁴	Rivaroxaban 10 mg once daily	Enoxaparin 40 mg/d for 10 ± 4 days and oral placebo for 35 ± 4 days	>75 = 1,084 65-75 = 862	>75 = 1,149 65-75 = 842

Les hémorragies

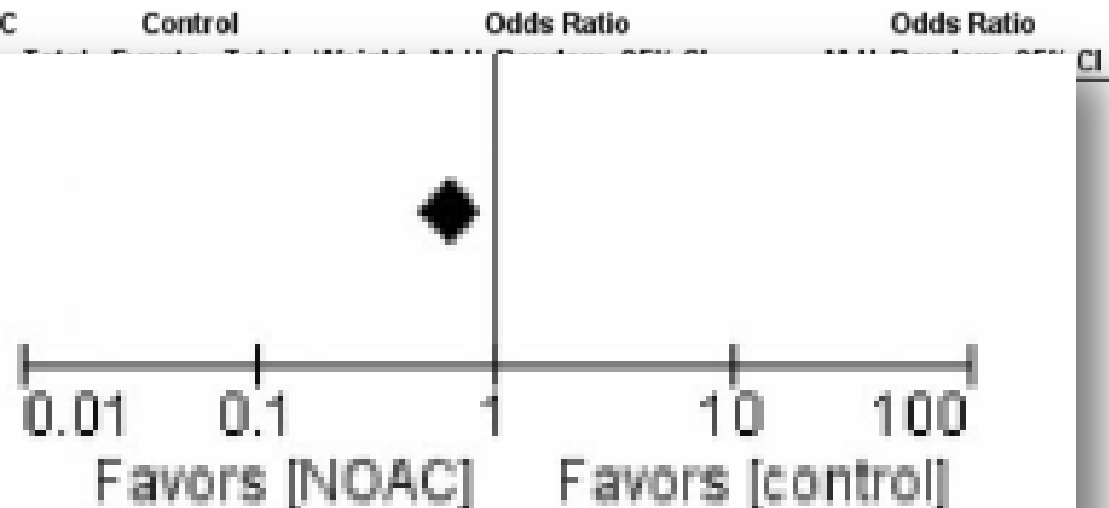
Patients aged more than 75 years: Major or clinically relevant bleeding



Les accidents emboliques

Patients aged more than 75 years: Stroke or systemic embolism

0.65 [0.48, 0.87]



Heterogeneity: $\tau^2 = 0.30$; $\text{Chi}^2 = 7.75$, $\text{df} = 1$ ($P = 0.005$), $I^2 = 65\%$
 Test for overall effect: $Z = 1.73$ ($P = 0.08$)

1.3 Dabigatran

RE-LY, 2009	156	4,828	101	2,360	28.0%	0.75 [0.58, 0.96]
Subtotal (95% CI)		4,828		2,360	28.0%	0.75 [0.58, 0.96]

Total events 156 101

Heterogeneity: Not applicable

Test for overall effect: $Z = 2.24$ ($P = 0.03$)

Total (95% CI)	11,562	9,177	100.0%
-----------------------	---------------	--------------	---------------

Total events 380 430

Heterogeneity: $\text{Tau}^2 = 0.06$; $\text{Chi}^2 = 11.19$, $\text{df} = 3$ ($P = 0.01$); $I^2 = 73\%$

Test for overall effect: $Z = 2.87$ ($P = 0.004$)

Test for subgroup differences: $\text{Chi}^2 = 1.37$, $\text{df} = 2$ ($P = 0.51$), $I^2 = 0\%$

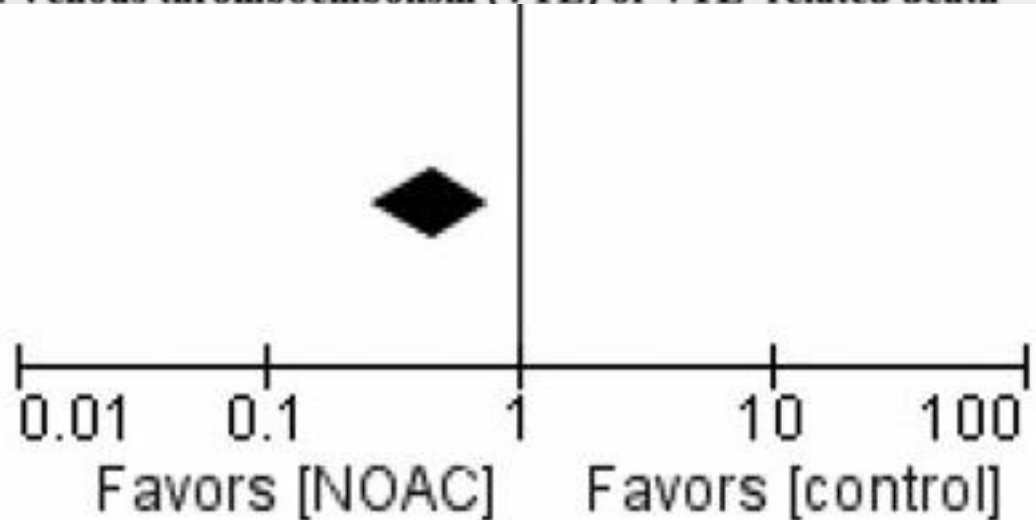
0.65 [0.48, 0.87]



Maladie veineuse thromboembolique

Patients aged 75 years: Venous thromboembolism (VTE) or VTE-related death

0.45 [0.27, 0.77]



Total events 5 11
Heterogeneity: Not applicable
Test for overall effect: $Z = 2.85$ ($P = 0.004$)

1.3 Dabigatran

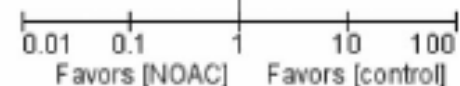
RE-MEDY, 2013 0 140 0 119
Subtotal (95% CI) 140 119

Total events 0 0
Heterogeneity: Not applicable
Test for overall effect: Not applicable

Total (95% CI) 2,189 2,103 100.0%
Total events 81 147
Heterogeneity: $\tau^2 = 0.15$; $\text{Chi}^2 = 7.23$, $df = 4$ ($P = 0.12$); $I^2 = 45\%$
Test for overall effect: $Z = 2.91$ ($P = 0.004$)
Test for subgroup differences: $\text{Chi}^2 = 2.70$, $df = 1$ ($P = 0.10$), $I^2 = 63.0\%$

Not estimable
Not estimable

0.45 [0.27, 0.77]





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PMCID: PMC4004137

A Spanish Pillbox App for Elderly Patients Taking Multiple Medications: Randomized Controlled Trial

Monitoring Editor: Gunther Eysenbach

Reviewed by Gonzalo Bacigalupe and Luis Fernandez-Luque

[José Joaquín Mira](#), MSc, PhD,^{1,2,3} [Isabel Navarro](#), BA,² [Federico Botella](#), PhD,⁴ [Fernando Borrás](#), PhD,⁵ [Roberto Nuño-Solinís](#), MSc,⁶ [Domingo Orozco](#), MD, PhD,⁷ [Fuencisla Iglesias-Alonso](#), MD,⁸ [Pastora Pérez-Pérez](#), PhD,⁹ [Susana Lorenzo](#), MD, MPH, PhD,¹⁰ and [Nuria Toro](#), BA⁶

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m

ALICE

- Application pour tablette tactile iOS et Android
- Traitements personnalisés avec des photos du médicament
- Alertes et rappels pour prendre les médicaments
- Mesure de l'adhérence : le patient valide chaque prise ; transmission au centre investigateur



Essai randomisé

- 99 pts > 65 ans
- Polymédiqués
- Vivant au domicile
- Assez autonomes

« Soin usuel » VS ALICE
pdt 3 mois

➔ Évaluation :

- adhérence ;
- erreurs ;
- doses oubliées



Avec ALICE : personnalisation de l'application ; installation sur une tablette tactile ; formation de 2 heures pour expliquer le fonctionnement de l'application

Résultats

Effets significatifs avec ALICE

- Augmentation du score d'adhérence
- Diminution du nombre d'erreurs
- Diminution des doses manquées



Une tablette au secours des gélules !

Fréquence des chutes dans un service de réhabilitation après une intervention mixte : éducation du patient et formation du personnel



Articles

Fall rates in hospital rehabilitation units after individualised patient and staff education programmes: a pragmatic, stepped-wedge, cluster-randomised controlled trial



Anne-Marie Hill, Steven M McPhail, Nicholas Waldron, Christopher Etherton-Beer, Katharine Ingram, Leon Flicker, Max Bulsara, Terry P Haines

Summary

Background Falls are the most frequent adverse events that are reported in hospitals. We examined the effectiveness of individualised falls-prevention education for patients, supported by training and feedback for staff, delivered as a ward-level programme.

Published Online
April 10, 2015
[http://dx.doi.org/10.1016/S0140-6736\(14\)61945-0](http://dx.doi.org/10.1016/S0140-6736(14)61945-0)

Méthodes

- 8 services de réhabilitation
- Critères d'inclusion :
 - Admission en service de réhabilitation
 - MMSE > 23/30
- Mise en œuvre d'une intervention structurée :
 - Éducation individuelle du patient : visionner un DVD et 2 à 4 séances de 30 mn avec un éducateur
 - Formation du personnel : visant à expliquer les actions envers les patients et à renforcer leur effet

Caractéristiques des patients

	Intervention period (n=1623 admissions)	Control period (n=1983 admissions)
Age, years	81.4 (9.3)	82.1 (8.3)
Women	999 (62%)	1211 (61%)
Men	624 (38%)	772 (39%)
Length of stay in rehabilitation unit (days)	12 (7-21)	11 (6-20)
Diagnosis on admission to rehabilitation ward		
Medical disorders*	461 (28%)	654 (33%)
Orthopaedic, musculoskeletal†	369 (23%)	395 (20%)
Hip fracture	168 (10%)	182 (9%)
Stroke	192 (12%)	175 (9%)
Other neurological disease‡	101 (6%)	162 (8%)
Cardiac	141 (9%)	198 (10%)
Respiratory	105 (7%)	120 (6%)
Other surgery§	86 (5%)	97 (5%)

Résultats

	Intervention period (n=1623 admissions)	Control period (n=1983 admissions)	Adjusted ratio (robust 95% CI), p value*
Falls/injurious falls/fallers/fractures	196/66/136/4	380/131/248/6	
Falls, rate per 1000 patient-days	7.80	13.78	IRR 0.60 (0.42–0.94), 0.003
Injurious falls, rate per 1000 patient-days	2.63	4.75	IRR 0.65 (0.42–0.88), 0.006
Fallers, % group having one or more falls	8%	13%	OR 0.55 (0.38–0.81), 0.003

Résultats

	Intervention period (n=1623 admissions)	Control period (n=1983 admissions)	Adjusted ratio (robust 95% CI), p value*
Higher cognition score†	914 (56%)	1016 (51%)	
Falls /injurious falls/fallers	61/23/52	137/34/92	
Falls, rate per 1000 patient-days	4.87	10.68	IRR 0.53 (0.36–0.77), 0.001
Lower cognition score	709 (44%)	967 (49%)	
Falls /injurious falls/fallers	135/43/84	243/97/156	
Falls, rate per 1000 patient-days	10.70	16.46	IRR 0.65 (0.40–1.05), 0.08

Conclusion

- 1^{ère} étude à montrer l'efficacité d'une intervention pour réduire l'incidence des chutes chez les sujets âgés hospitalisés en réhabilitation
- Effets meilleurs lorsque les fonctions cognitives sont meilleures

Imagerie A β florbetapir et évolution dans le Mild cognitive impairment (MCI)

Journal of
**Neurology, Neurosurgery
& Psychiatry**

Neurodegeneration

RESEARCH PAPER

A β imaging with ¹⁸F-florbetaben in prodromal Alzheimer's disease: a prospective outcome study

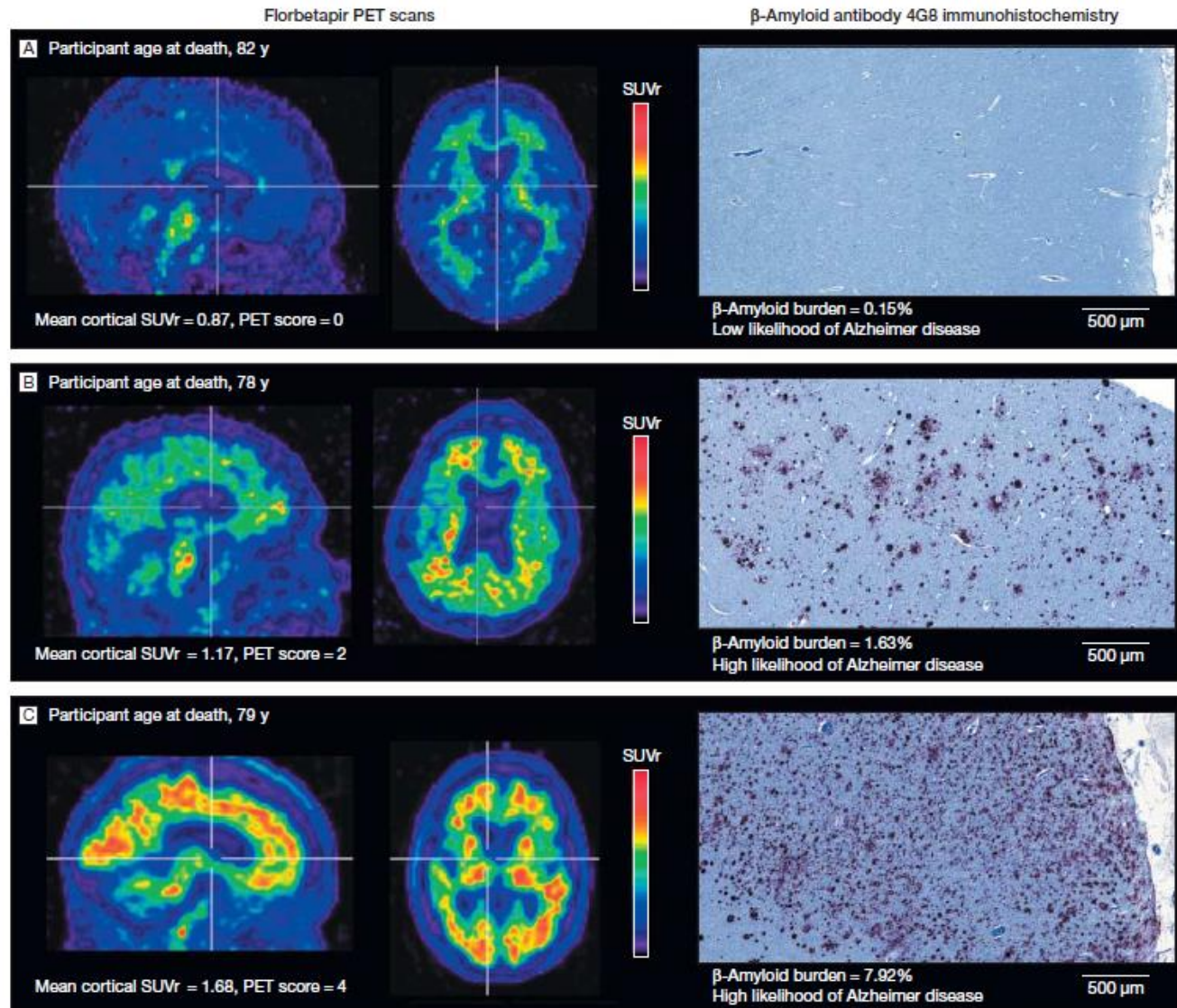
Kevin T Ong,¹ Victor L Villemagne,^{1,2} Alex Bahar-Fuchs,^{1,3} Fiona Lamb,¹
Narelle Langdon,¹ Ana M Catafau,⁴ Andrew W Stephens,⁴ John Seibyl,⁵
Ludger M Dinkelborg,⁴ Cornelia B Reininger,⁶ Barbara Putz,⁶ Beate Rohde,⁶
Colin L Masters,² Christopher C Rowe¹

ABSTRACT

Background We assessed the clinical utility of β -amyloid (A β) imaging with ¹⁸F-florbetaben (FBB) in

positive individuals with mild cognitive impairment (MCI) due to AD reflecting differences in sample size, recruitment source, duration of follow-up and

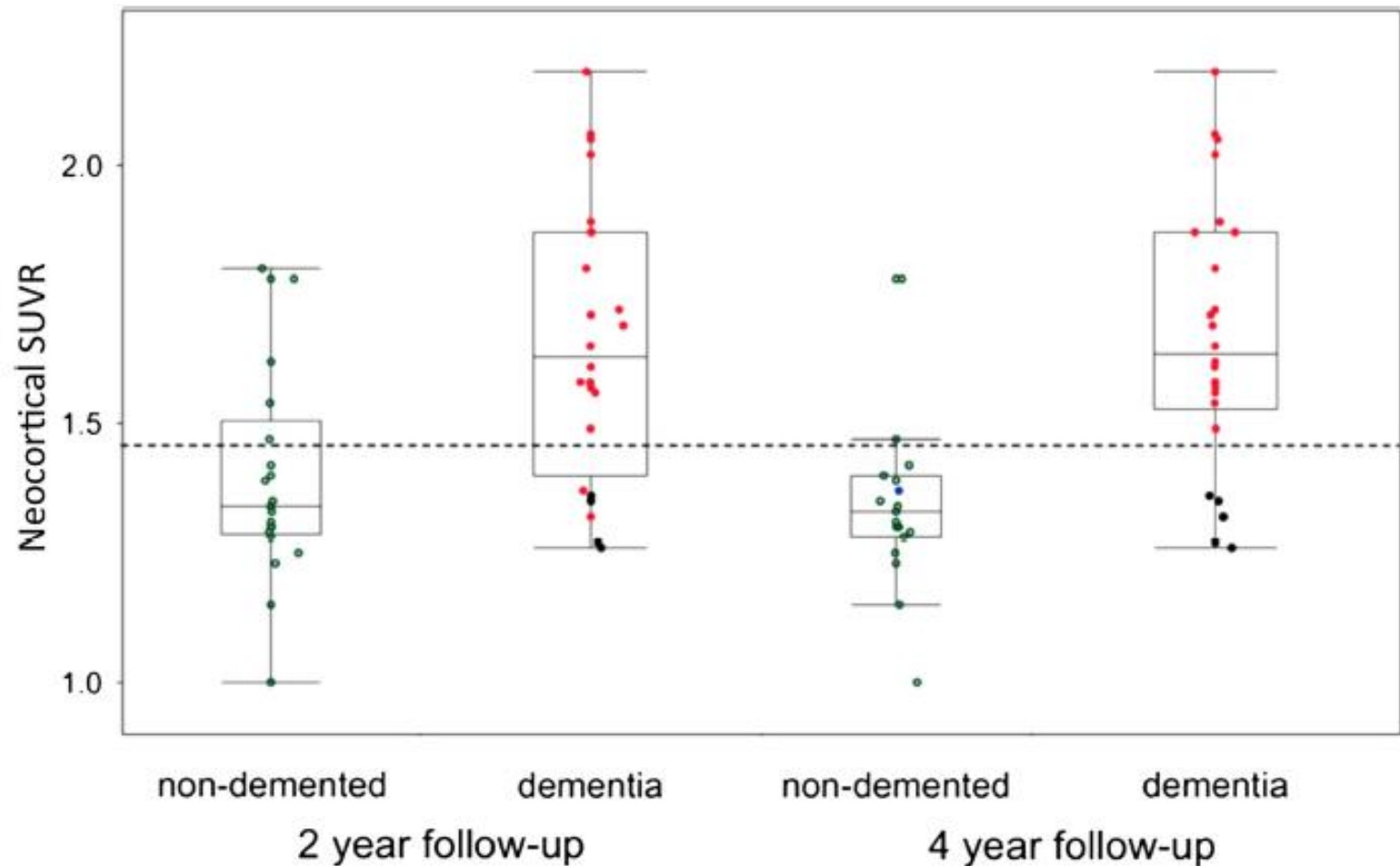
Imagerie des plaques amyloïdes



Caractéristiques des 45 patients ayant un MCI

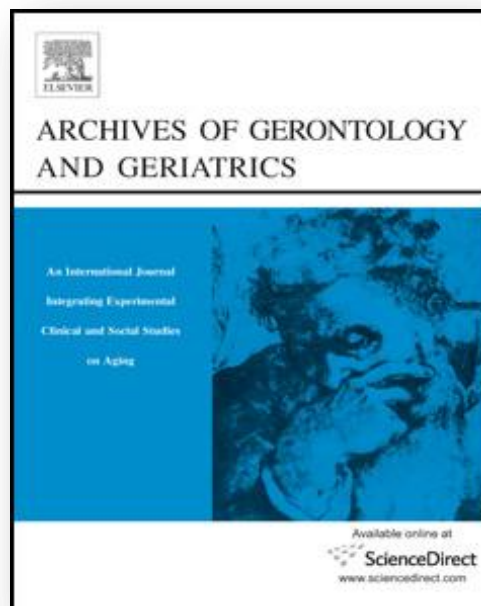
	FBB retention	
	Negative (FBB—)	Positive (FBB+)
N (% of total)	21 (47)	24 (53)
Age	71.8±6.1	73.5±6.9
Years of education	13.5±3.0	13.8±4.2
MMSE	27.9±1.4	26.7±1.9*
EM	−1.4±0.8	−2.8±1.0*
CDR SOB	1.3±0.9	1.6±1.0
Neocortical SUVR	1.30±0.09	1.75±0.19*
Hippocampal volume/cm ³	7.4±1.1	6.9±0.8
*p<0.05 compared with re		

Captation corticale du traceur et évolution vers une démence de type Alzheimer



At baseline	Progressed to AD	
	Yes	No
FBB+ (by SUVR)**	18	6
FBB– (by SUVR)	2	19

PPV (%) (95% CI)	NPV (%) (95% CI)	Accuracy (95% CI)
75.0% (60% to 82%)	90.5% (74% to 98%)	82.8% (61% to 94%)



Equilibre postural et chutes chez les résidents de maison de retraite enrôlés dans un programme de danse de salon

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Postural balance and falls in elderly nursing home residents enrolled in a ballroom dancing program



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ABSTRACT

The aim of this study was to investigate the influence of a ballroom dancing program on the postural balance of institutionalized elderly residents. The sample consisted of 50 sedentary elderly residents of

RATIONNEL



DANSE DE SALON =

- Activité physique +
- Relations sociales

➔ BON POUR LA SANTE !



**62 sujets âgés vivant en
institution de soins de longue
durée de Rio de Janeiro
Sans perte d'autonomie ni
troubles cognitifs
Age 68 +/- 8 ans**



**Groupe Contrôle
Mode de vie habituel
de l'institution**

**Groupe Intervention
50 mn de danse de salon
3 fois par semaine
pendant 12 semaines**

Déroulement de la classe de danse

Echauffement 10 mn : Foxtrot, Waltz, Rumba, Swing, Samba, Bolero

Partie principale 30 mn : Forro, Pagode, Baia~o, Cirandas, Salsa, Merengue, Square dancing

Relaxation 20 mn : Bolero, Samba, Waltz, Foxtrot

Evaluati

Nb de

E



Résultats

Équilibre postural

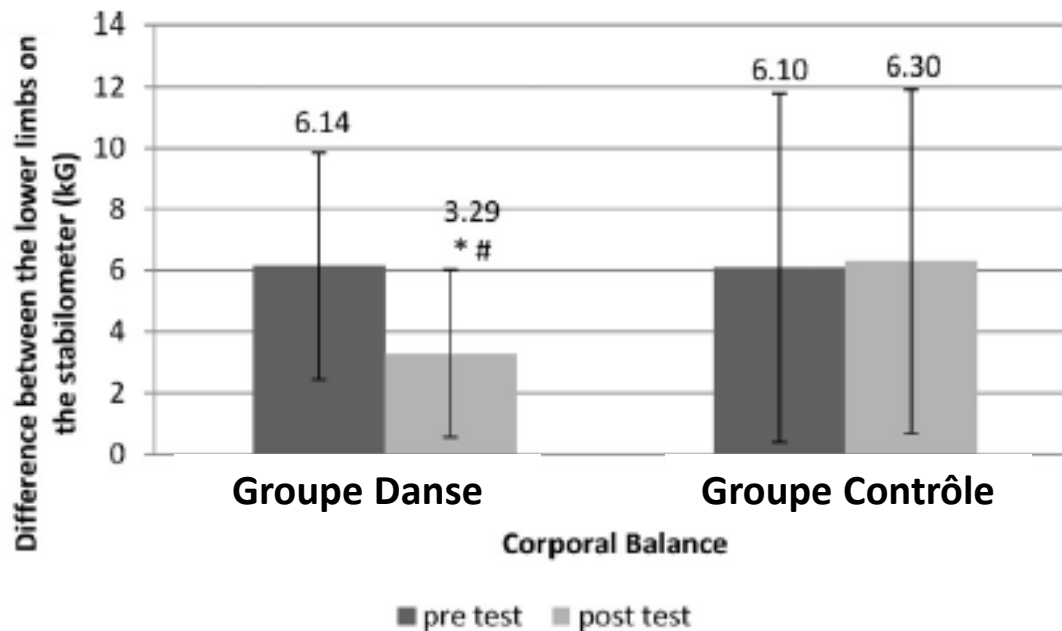
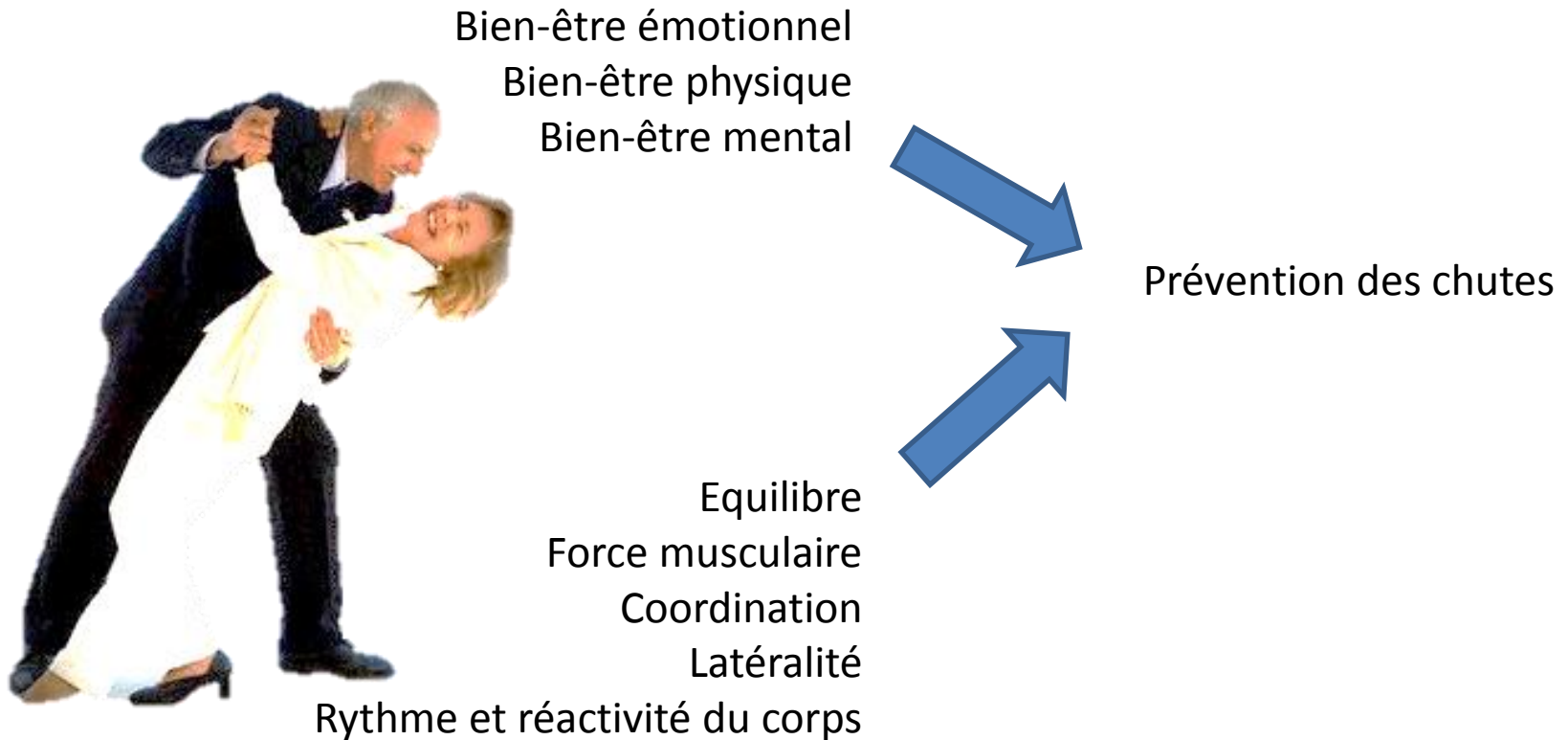


Fig. 1. Intra- and intergroup comparisons of the lower limb weight distribution. EG: experimental group; CG: control group. * $p < 0.05$, pre- vs. post-test; # $p < 0.05$: EG vs. CG in the post-test.



Chutes :
Diminution
significative dans le
groupe Danse
 $p < 0.0001$

Quels **mécanismes** impliqués dans la danse-thérapie ?



Faut-il prescrire la danse-thérapie dans les institutions françaises ?

➔ Pas sans un large essai randomisé en EHPAD

