Study	Study	Treatment/	Results							Validity /Conclusion
	Population	intervention								
Grundman et al,	Inclusion criteria:	After history review and	Change in diagnosis from before to after scan for each diagnostic category							Advantages/ limitations:
2013.	Documented	clinical assessment,	Subjects	Pre-scan	Post-sca	an diag	nosis		Change in	The study prospectively
	history of cognitive	and before florbetapir-		diagnosis	Due to A	D In	determina	te Not due to A	D diagnosis	examined the impact of
Study type	decline, and some	PET imaging, the	All subjects	Due to AD	FA (00.00		00 /05 00	() 40 (44 00()	00 (07 00()	amyloid imaging with <sup>18</sup> F-
Prospective.	uncertainty of the	physicians provided	n=229	N=80 Indotorminato	54 (62.8	%)	22 (25.6%	%) 10 (11.6%)	32 (37.2%)	florbetapir PET on the
	diagnosis of AD	and recorded the		n=122	47 (38 59	%)	42 (34 45	33 (27 0%)	80 (65 6%)	physician's diagnostic
Aim:	(<85% certainty of	diagnosis as current		Not due to AD	11 (00.0	/0/	12 (0 1. 10	00 (21.070)	00 (00.070)	thinking and intended
To determine the	the clinical	diagnosis (group A		n=21	12 (57.19	%)	1 (4.85)	8 (38.1%)	13 (61.9%)	management of patients
impact of amyloid	diagnosis	completed clinical	Amyloid –ve	Due to AD						with progressive cognitive
imaging with <sup>18</sup> F-	according to the	evaluation) or working	N=116	n=33	1 (3.0%)		22 (66.7%	6) 10 (30.3%)	32 (97.0%)	decline undergoing
florbetapir PET on	physician's	diagnosis (group B:	(50.7% of all	Indeterminate	0 (0 00()		44 (55 40	()* 00 (44 00()	00 (44 00()	evaluation for suspected
the physician's	judgment. There	clinical evaluation in	subjects)	Net due to AD	0 (0.0%)		41 (55.4%	%)" 33 (44.6%)	33 (44.6%)	AD. The physicians were
diagnostic thinking	was no	progress) for each			0 (0 0%)		1 (11 19	(a) 8 (88 9%)	1 (11 1%)	asked whether they would
and intended	requirement that	patient. The treating	Amvloid +ve	Due to AD	0 (0.070)		. (,	0) 0 (00.070)	1 (11.170)	change their management
management of	the patient meets a	physician was asked to	N=113	n=53	53 (100	%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	plan, but the actual
patients with	specific level of	document a diagnostic	(49.3% of	Indeterminate	, ,	,	· · ·	· · ·	· · /	patient management over
progressive	cognitive decline.	testing and	all subjects)	n=48	47 (97.99	%)	1 (2.1%)	0 (0.0%)	47 (97.9%)	time was not observed.
cognitive decline		management plan		Not due to AD	40 (4000	~	0 (0 00()	0 (0 00()	40 (4000()	The authors did not
undergoing	Exclusion	before imaging. The	III=12 12 (100%) 0 (0.0%) 0 (0.0%) 12 (100%)   Elephotapir DET scop had an impact on diagnestic thinking in 125 scope (54%) 05% (149.4)							discuss whether the
evaluation for	criteria:	florbetapir scan was	1010000apri -r ⊑ i scan nau an impaci on ulagnosiic ininking in 120 cases (34%, 95% CI 46.1- 160 9%)							readers of the scan were
suspected AD.	Physician's access	performed within 30	*55% of the subjects were classified with an indeterminate diagnosis after a negative scan rather							blinded to the pre-test
	to the results of a	days of completion of	than a non-AD	clinical diagnosis. The						
Primary endpoint	previous amyloid	the baseline screening		study included patients						
Proportion of	imaging, or patient	visit. The results were	Change in intended management							with progressive
	participation in a	who recorded a revised	Subjects	Medication pla	n	Adde	dor	Included in plan	Included in	diagnostia uportainty. It
a change in	clinical that of an	who recorded a revised				remo	ved	before scan	plan after scan	diagnostic uncertainty. It
ulagnosis and	there evidence and the second		All Subjects	AD medication	de	17 (3	1.0%)	126 (55.0%)	119 (52.0%)	was conducted in a
management was	inerapeutic agent.	proposed cirrical plan.	11-223	Refer to clinica	us. I trial	37 (1	6.2%)	18 (7.9%)	23 (10.0%)	momony disorder experts
nronosed after a	Patient	<sup>18</sup> E- florbetanir was not	Amyloid -ve	AD medication		35 (3	0.2%)	57 (49.1%)	30 (25.9%)*	experienced in the
proposed after a	characteristics.	EDA approved at the	N=116	Psychiatric me	dication.	13 (1	1.2%)	11 (9.5%)	14 (12.1%)	diagnosis and treatment
PET scan	mean and $7/$	start of the study thus		Refer to clinica	l trial	12 (1	0.3%)	12 (10.3%)	0 (0.0%)	of AD and the scans
	vears 95% white	the diagnostic decisions	Amyloid +ve	AD medication		36 (3	1.9%)	69 (61.1%)	89 (78.8%)**	were over-read by expert
Secondary	50% men 36%	and management	N=113	Psychiatric me	dication.	4 (3	.5%)	4 (3.5%)	2 (1.8%)	nuclear medicine
endpoint:	had dementia and	choices were only	*Diannad AD m	Refer to clinica	li trial	25 (2	2.1%)	6 (5.3%)	23(20.4%)	specialists thus the
Change of	64% had cognitive	hypothetical	** Planned AD medication was increased in 20 subjects after a nositive scan, n=0.0000 Incentive may not h							results may not be
diagnosis and/or	impairment not at	The diagnosis and	Total change in AD plan medication based on the scan was made for of 47 /229 subjects							generalizable to the
management after	the level of	intended management	(20.5%)							overall population
a positive scan.	dementia.	at baseline was	Plans for diagnostic testing in group B changed based on results of scan:							evaluated for cognitive
		compared to those after	Structural imaging decreased by 24.4% (95% CI 17.5-32.8%)							complaints.
N of patients:		receiving the scan	Neuropsychological testing decreased by 32.8% (95% Cl 25.0-41.6%)							
229.		results.	Lumbar puncture, FDG scan and Apo E genotyping were reduced by 94%, 91%, and 50%							
-			I ittle change was made in group A who had already undergone a complete workup							
			Little onlange we			anouu	, anacigo	ne a complete we		