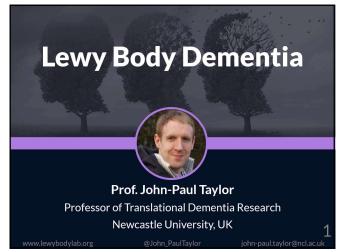
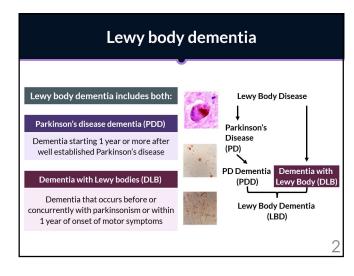


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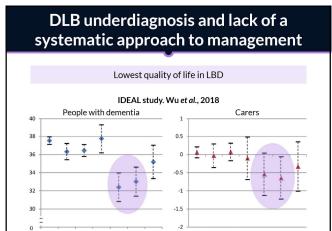
DLB underdiagnosis and lack of a systematic approach to management

- Post-mortem examination indicates that 15–20% of dementia cases have evidence of Lewy body disease
- Clinical DLB diagnostic rates from selected cohorts are much lower, 4–7%, than expected from autopsy studies (Vann-Jones and O'Brien, 2014), but diagnostic rates in routine clinical practice is unknown
- Previous studies suggest under-recognition and a more complex road to diagnosis (Galvin et al., 2010)



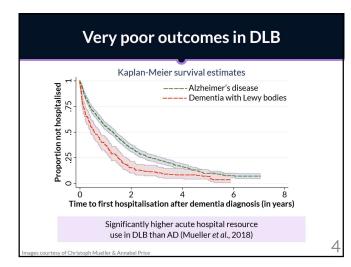
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AD VaD Mixed FTD PDD LBD Other

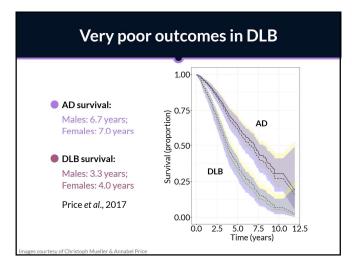


AD VaD Mixed FTD PDD LBD Other





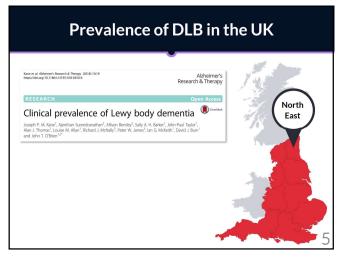


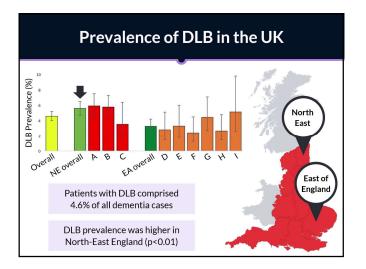




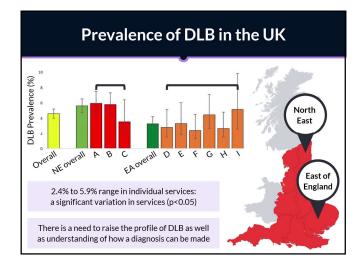


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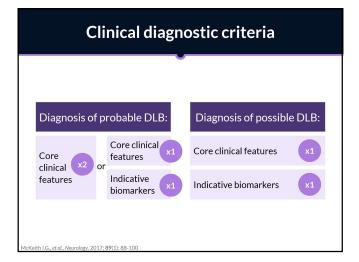




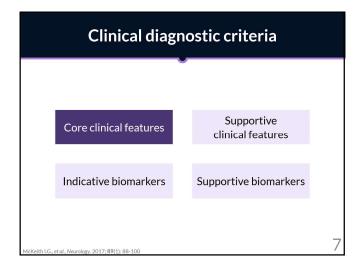
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Clinical diagnostic criteria			
		•	
	Core clinical features	Supportive clinical features	
	Indicative biomarkers	Supportive biomarkers	
McKeith I.G.	et al. Neurology, 2017; 89(1); 88-100		6





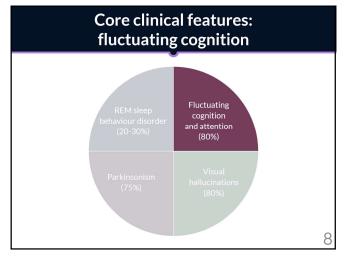




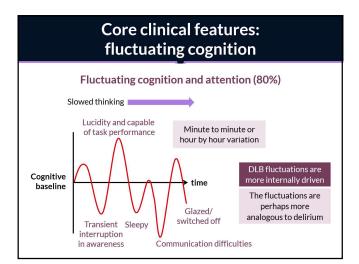




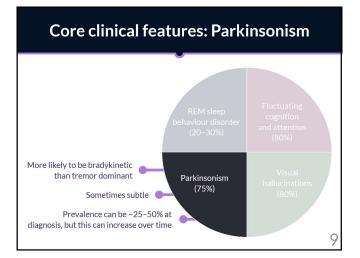
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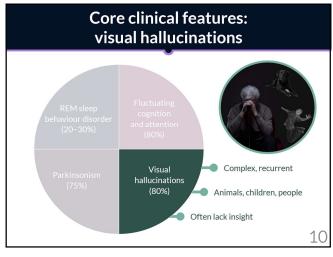


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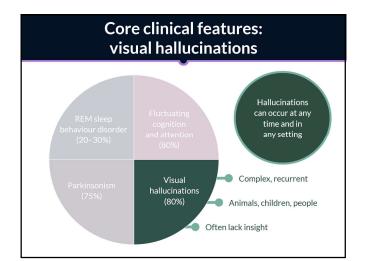




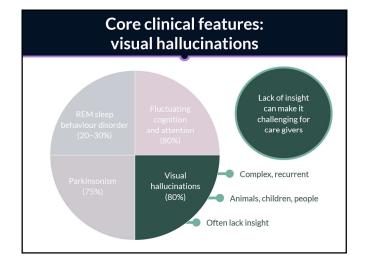
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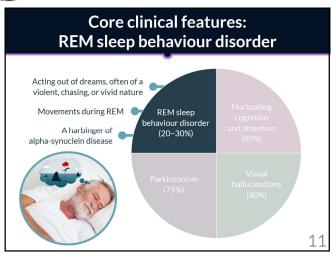




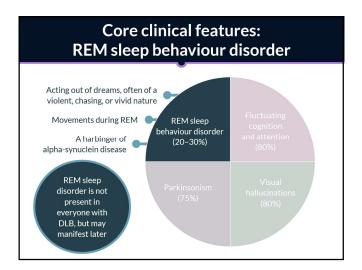




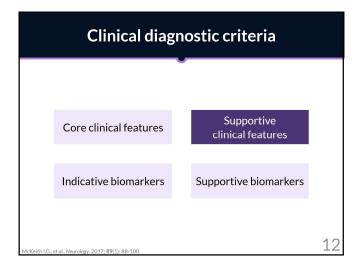
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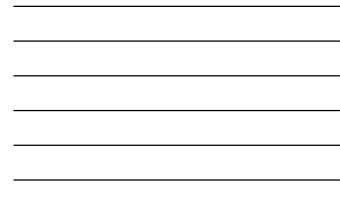








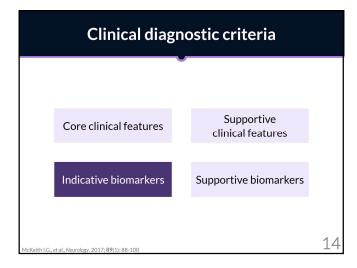




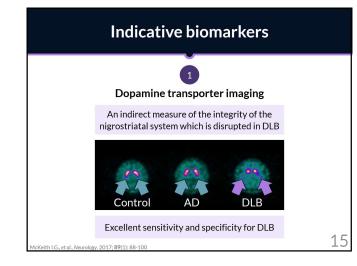


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Clinical diagnostic criteria: supportive clinical features			
Severe antipsychotic sensitivity	Hypersomnia		
Postural instability	Hyposmia		
and repeated falls	Hallucinations in other modalities		
Syncope or other transient episodes of unresponsiveness	Systematised delusions		
Severe autonomic dysfunction	Depression, anxiety, apathy		
McKeith I.G., et al., Neurology, 2017; 89(1); 88-100	1	3	



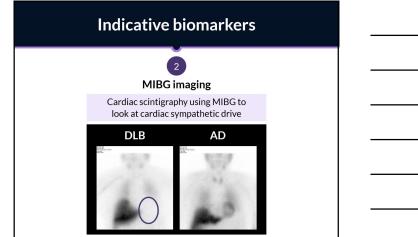


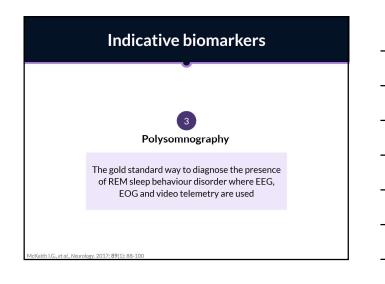


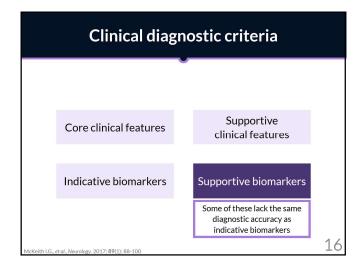




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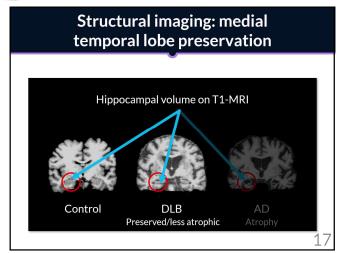


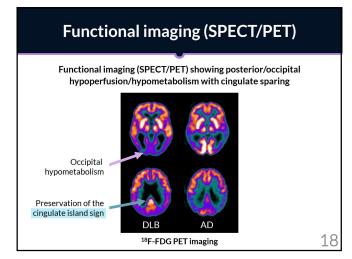




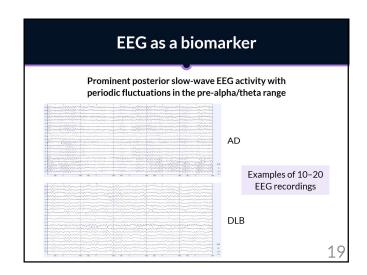


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Problems in diagnosing dementia with Lewy bodies

MMSE 18/30 MMSE 20/30 Orientation 5/10 Orientation 8/10 Short term memory 0/3 Short term memory 2/3

Problems in diagnosing dementia with Lewy bodies

- Insufficient neuropsychological evaluation
- Atypical presentations are common
- Underuse of the "possible" DLB diagnosis
- Difficulty recognising/defining "fluctuation"
- Confidence in assessing motor symptoms
- Failure to ask about core and supportive
- clinical features
- Autonomic dysfunction
 Anosmia
- REM sleep behaviour disorder
- Impact of Alzheimer co-pathology



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RESEARCH ARTICLE	atric Psychiatry
Development of assessment toolkits for improvi diagnosis of the Lewy body dementias: feasibili within the DIAMOND Lewy study	
Alan J. Thomas ¹ , John Paul Taylor ¹ , Ian McKeith ¹ , Claire Barnford ¹ , David Burn ¹ , Louise J John O'Trin ¹	Allan ¹ and DIAMOND
DOI: 10.1002/gps.4948	Geratic Psychiaty
Revision of assessment toolkits for improving the di Lewy body dementia: The DIAMOND Lewy study	agnosis of

HSTalks

Diagnostic assessment toolkit ²² for dementia with Lewy bodies

Nar	me:	Date of testing:	
Date of birth:		Tester's name:	
NH	IS No:	Informant:	
feat	tures of dementia with Lewy	Ikit in all people with cognitive decline. Below are bodies (DLB) at two levels of confidence (probable ing pages are specific questions to assist in the id s of DLB.	DLB and
DL	B Diagnostic Criteria		Tick
1	Clinician diagnosis of dem social/occupational function	entia (cognitive decline sufficient to interfere with n).	
2	Use screening questions b hallucinations, RBD and pa	elow to cover the four domains of: cognitive fluctu arkinsonism.	ation, visual
	Using your experience iden (see below):	tify how many core and biomarker features of DL	B are present
3	Core clinical features		
	 Fluctuation in cognition 		
	 Recurrent visual halluci 		
	REM sleep behaviour d One or more features of	lisorder f spontaneous parkinsonism	
4	Indicative Biomarkers	apontaneoes participantin	
	Dopaminergic abnorma	lities in basal ganglia on SPECT/PET	
	Low uptake on MIBG m	yocardial scintigraphy	
	Polysomnography (PSC	3) confirmation of REM sleep without atonia	
	gnose Probable DLB if eithe marker feature.	er 2 core features are identified or 1 core and 1 inc	icative
		one feature is present. In such circumstances con	



Diagnostic assessment toolkit for dementia with Lewy bodies

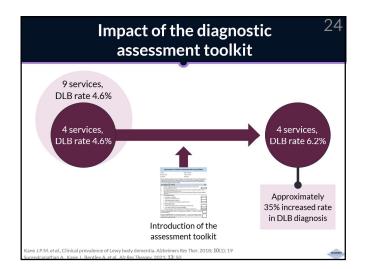
ubject is highly likely to have	e coanitiv	
ubject is highly likely to have	e coanitiv	
		e
n their level of functioning	Yes	No
ng to bed at night, does the ?	Yes	No
e than one hour during the leep the night before?	Yes	No
nt so they maintain	Yes	No
ut his/her dreams" while	Yes	No
	ng to bed at night, does the ? b than one hour during the leep the night before? It so they maintain	reg to bed at night, does the ? ? than one hour during the teop the night before? tt so they maintain Yes ut his/her dreams" while yes



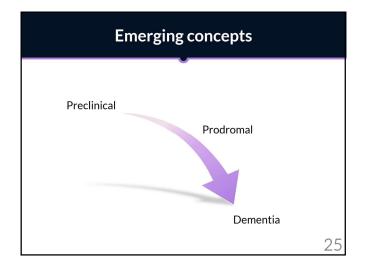


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	nent of Parkinsonism (5-item UPDRS)					
	ism in DLB requires the presence of at least one of bradykinesia, rest tr					
	e 5-tem UPDRS is a brief and validated scale for identifying parkinsoni			DIAMOND		
	w for further details)			DIAMOND		
POSTURA	AL TREMOR OF THE HANDS		- I	LEWY		
Vormal	No tremor.	0				
Slight	Tremor is present but less than 1 cm in amplitude.	1				
bit	Tremor is at least 1 but less than 3 cm in amplitude.	2	GLOBAL	SPONTANEITY OF MOVEMENT (BODY BRADYKINESIA)		
Aoderate	Tremor is at least 3 but less than 10 cm in amplitude.	3	Normal	No problems.	0	_
Severe	Tremor is at least 10 cm in amplitude.	4	Slight	Slight global slowness and poverty of spontaneous movements.	1	
INFTIC .	FREMOR OF THE HANDS		Mild	Mild clobal slowness and poverty of spontaneous movements.	2	_
Normal	No tremor.	0	Moderate	Moderate global slowness and poverty of spontaneous movements.	3	
Slight	Tremor is present but less than 1 cm in amplitude.	1	Severe	Severe global slowness and poverty of spontaneous movements.	4	-
Mid	Tremor is at least 1 but less than 3 cm in amplitude.	2	BIGIDITY			
Moderate	Tremor is at least 3 but less than 10 cm in amplitude.	3	Normal	No risidity.	0	
Severe	Tremor is at least 10 cm in amplitude.	4	Slight	Rigidity only detected with activation manoeuvre.	1	_
	XPRESSION			Rigidity detected with activation manoeuvre, but full range of		_
Normal	Normal facial expression.	0	Mild	motion is easily achieved.	2	
Slight	Minimal masked facies manifested only by decreased frequency of blinking.	1	Moderate	Rigidity detected without the activation manoeuvre; full range of motion is achieved with effort.	3	
Mid	In addition to decreased eye-blink frequency, masked facies present in the lower face as well, namely fewer movements around	2	Severe	Rigidity detected without the activation manoeuvre and full range of motion not achieved.	4	
Moderate	the mouth, such as less spontaneous smiling, but lips not parted. Masked facies with lips parted some of the time when the mouth is at rest	3		Total 5-item UPDRS Score =		
Severe	At rest. Masked facies with lips parted most of the time when the mouth is at rest.	4	Is Parkinsonism present? (Use clinical judgement but for guidance a score >7 suggests significant parkinsonism is present, though a high score (>2) in a single domain may be sufficient to meet criteria)			





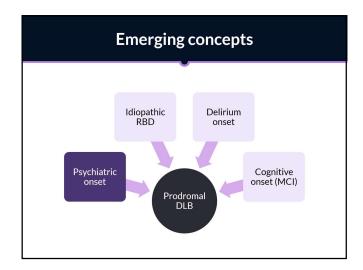






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Emerging concepts		
	Research criteria for the diagnosis of dementia with Lewy bodies	prodromal
	Ian G. McKethi, F. Heed Sci, MD, Tanis, J. Ferman, PhD, Alan, T. Thomas, PhD, Frééric Barre, MD, Brandley F. Boew, ND, Hindyeir Eyrilland, MD, Kigal Kinathar, MD, KS, Cristina Mutcio, PhD, John T. Offerin, F. Hed Sci, DM, Ronald B. Postuma, MD, MSC, Dag Ansland, PhD, Clive Ballurd, MD, Laura Bonami, MD, RhD, PhJ, 2010 CongNy, PhD, MuratTerre, MD, Minner E. Galvin, MD, NPH, Douglas Galaisko, MD, Jennifer G. Goldman, MD, MS, Stephen N. Comperts, MD, PhD, Laurence S. Honig, MD, PhD, Mantabu Keda, MD, PhD, Jamos BL, eurerez, MD, Simol GL, Laurence S. Honig, MD, PhD, Mantabu Keda, MD, PhD, James BL, Leurerez, MD, Simol GL, Leurence S. Honig, MD, PhD, Mantabu Keda, MD, PhD, James BL, Leurerez, MD, Simol GL, Leurence S. Honig, MD, PhD, Mantabu Keda, MD, end Pestor Traisochi, MD, Gret Brandromal DJ B Bagnoist Study Group	Correspondence Dr. McKeith i.g.mckeith@ncl.ac.uk





 Preserved or minimally affected performance of previously attained independence in functional abilities, which do not meet the criteria for dementia

Core clinical features

Fluctuating cognition

- Recurrent visual hallucinations
- REM sleep behaviour

Features of parkinsonism

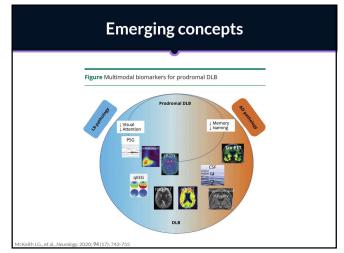


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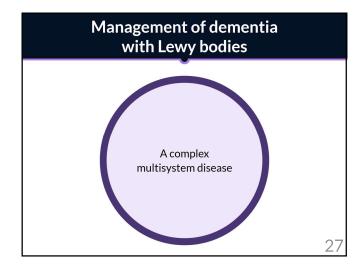
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HSTalks

Emerging concepts

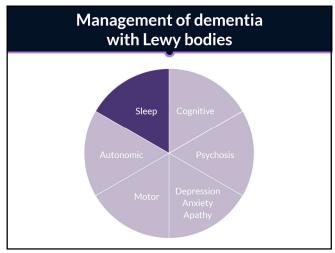
The diagnostic criteria remain research based, rather than practical

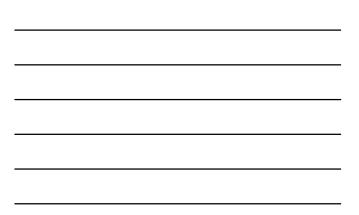




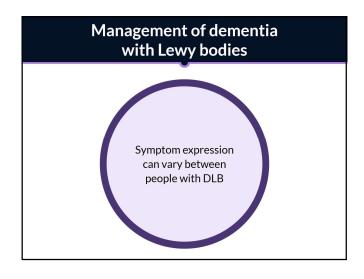


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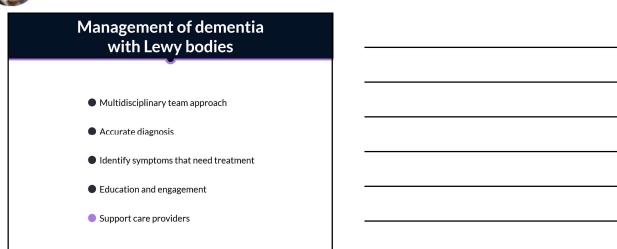
HSTalks



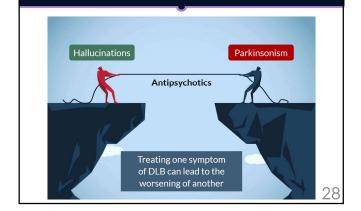
Management of dementia with Lewy bodies

- Multidisciplinary team approach
 - Movement disorder specialists
 - Psychiatrists
 - Neurologists
 - Geriatricians
 - Occupational therapists, speech and language therapists, physiotherapists





DLB therapeutic challenges

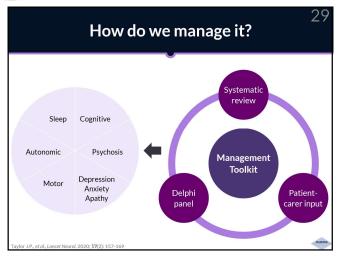


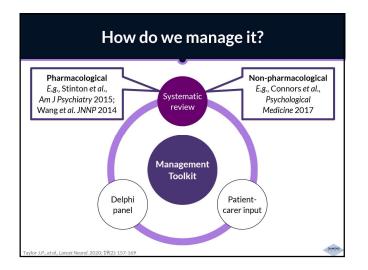




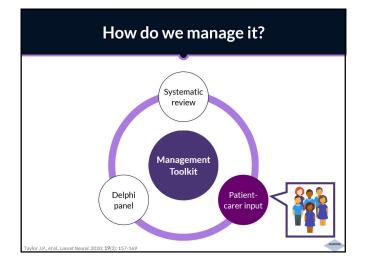


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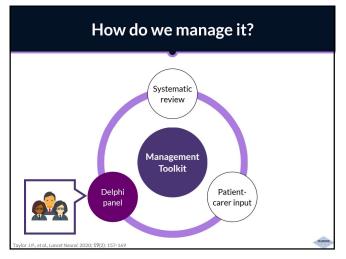








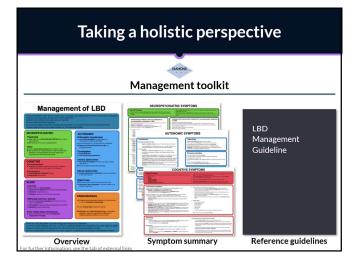
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HSTalks

Taking a holistic perspective





30



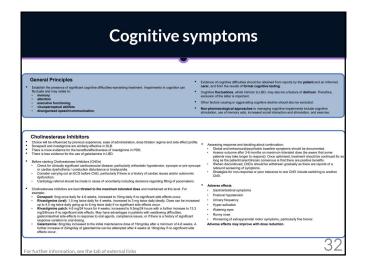
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LBD management guideline		
LBD Management Guideline		
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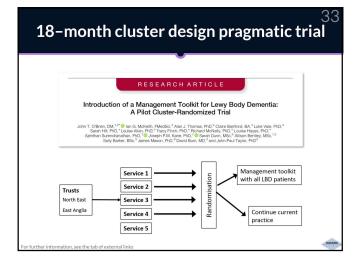




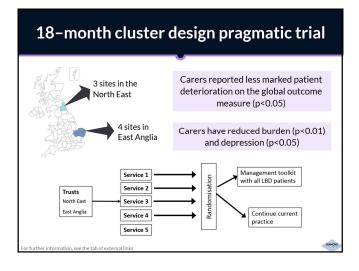


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Cognitive symptoms			
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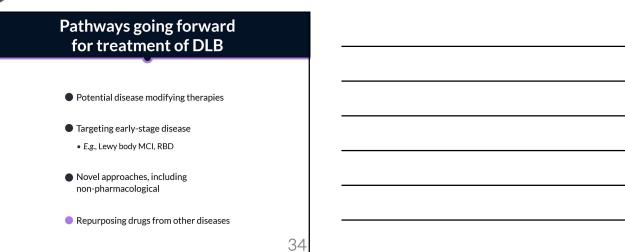


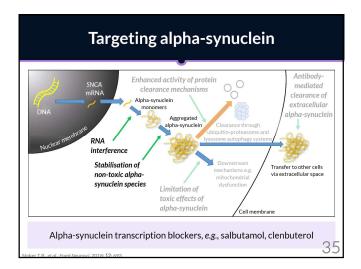




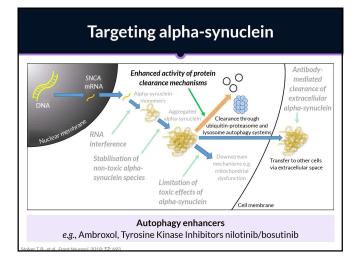


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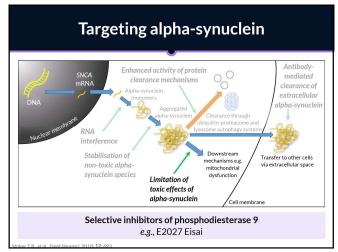




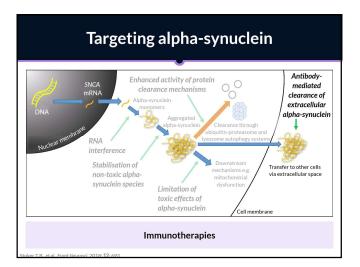
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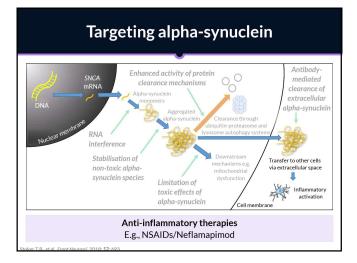
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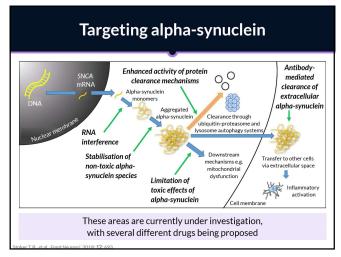








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