



Alcohol Related Brain Injury

Our work in the Acute Sector

Dr Paul Richardson – Consultant Hepatologist

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Alcohol Care Team



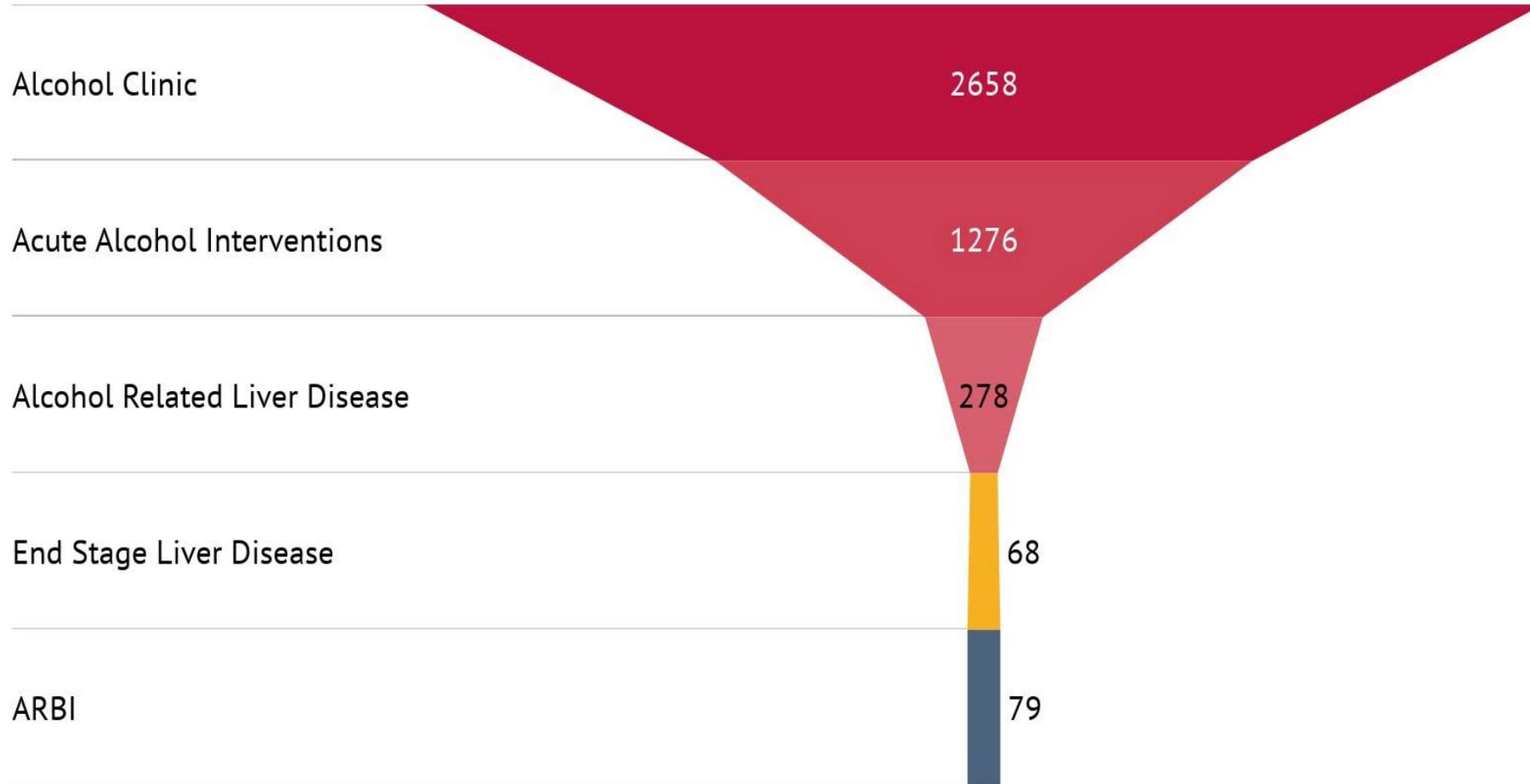
David Byrne

The Royal Liverpool Hospital – Alcohol Care Team

- 7 Specialist Nurses, 2 Administrators, 1 Consultant Hepatologist and 1 Consultant Nurse
- Senior clinical, academic strategic leadership and support
- A competent, caring, skillful and fully supported nurse team fully integrated with the Hepatology team



Alcohol Care Team – Our Work



ARBI Burden of Disease?

- In January 2017 we were successful in bidding for funding from the Health Foundations Innovating for Improvement Program
- A Nurse led intervention to identify and support patients with ARBI.
- We reached out to different organizations with interests in ARBI



Community and Mental Health Services



ARBI – Project Structure

- Steering Group of senior clinicians and academics chaired by our patient representative
- Data Monitoring Group (DGM) collecting important data that will let us evaluate our pathway.
- Full time Nurse to deliver the screening and pathway and support our patients
- Support of Alcohol & Hepatology Specialist Nurses and Consultants
- Full support from Liaison Psychiatry to deliver accurate diagnosis



ARBI – Screening Criteria

We screened any patients who met the following criteria:

- Any Patient with more than 3 alcohol related admissions in one year
- Any patient with 2 alcohol related presentations in any given month
- Any patient who is concerned or their family is concerned about cognitive decline



ARBI – Montreal Cognitive Assessment (MoCA)

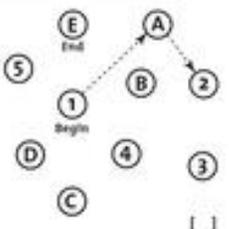
MoCA used to screen patients for cognitive decline once detox was complete.

Any patient scoring 23 or less was referred to liaison psychiatry for diagnosis.

Can be completed with a patient in under 15 minutes

MONTREAL COGNITIVE ASSESSMENT (MOCA)

NAME : _____ Education : _____ Date of birth : _____
 Sex : _____ DATE : _____

VISUOSPATIAL / EXECUTIVE		Copy cube 	Draw CLOCK (Ten past eleven) (15min)	POINTS			
		[]	[]		[]		
NAMING							
 []		 []		 []			
MEMORY							
Read list of words, subject must repeat them. Do 1 trial. Do a recall after 5 minutes.		FACE	VELVET	CHURCH	DAISY	RED	No points
1st trial		[]	[]	[]	[]	[]	
2nd trial		[]	[]	[]	[]	[]	
ATTENTION							
Read list of digits (1 digit/sec). Subject has to repeat them in the forward order [] 2 1 8 5 4		Subject has to repeat them in the backward order [] 7 4 2			POINTS		
Read list of letters. The subject must tap with his hand at each letter A. No points if 1 or more		[] FBACMNAAIKLBFAFKDEAAAJAMDFAB					
Serial 7 subtraction starting at 100 [] 93 [] 86 [] 79 [] 72 [] 65		4 or 5 correct subtractions: 2 pts, 1 or 3 correct: 2 pts, 1 correct: 1 pt, 0 correct: 0 pt			[]/3		
LANGUAGE							
Repeat - I only know that John is the one to help today. []		The cat always hid under the couch when dogs were in the room. []			[]/2		
Fluency / Name maximum number of words in one minute that begin with the letter F [] _____ (No 2 is words)					[]/1		
ABSTRACTION							
Similarity between e.g. banana - orange = fruit [] train - bicycle [] watch - ruler					[]/2		
DELAYED RECALL							
Was he read words WITH NO CUE []		FACE	VELVET	CHURCH	DAISY	RED	Points for UNCLUED recall only
Optional Category cue []		[]	[]	[]	[]	[]	
Optional Multiple choice cue []		[]	[]	[]	[]	[]	
ORIENTATION							
[] Date [] Month [] Year [] Day [] Place [] City					[]/6		
© Z. Nasreddine MD - Version November 7, 2004		Normed & 20 / 30		TOTAL []/30			
www.mocatest.org		Add 1 point if 5-12 yr edu					



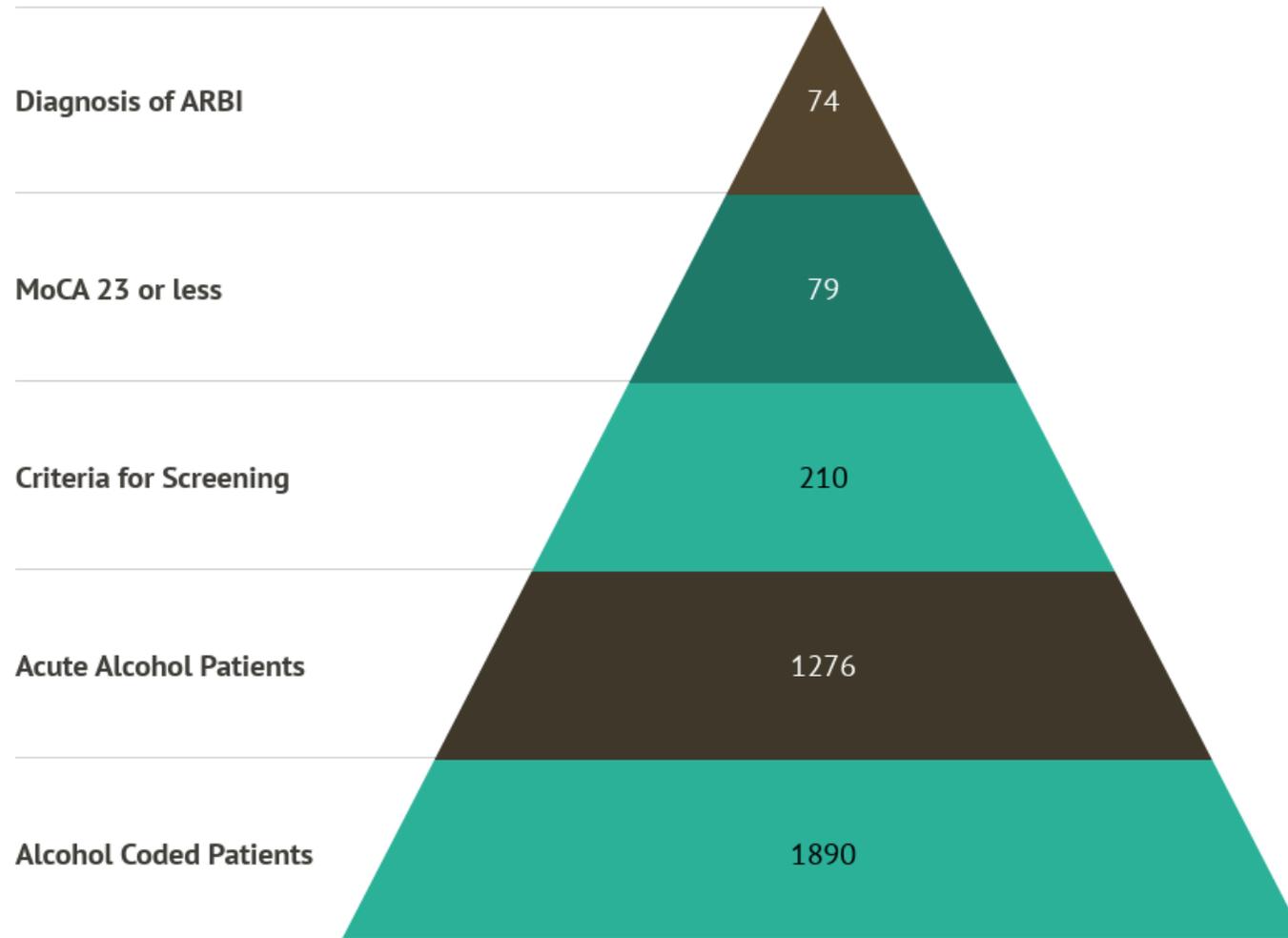
ARBI – Multi Disciplinary Team Meeting

To support continuation of care and to bring together healthcare professionals to plan for a patients discharge from hospital.

A lot of services in Liverpool are stretched and struggle to release staff!!!!



ARBI – Our Population

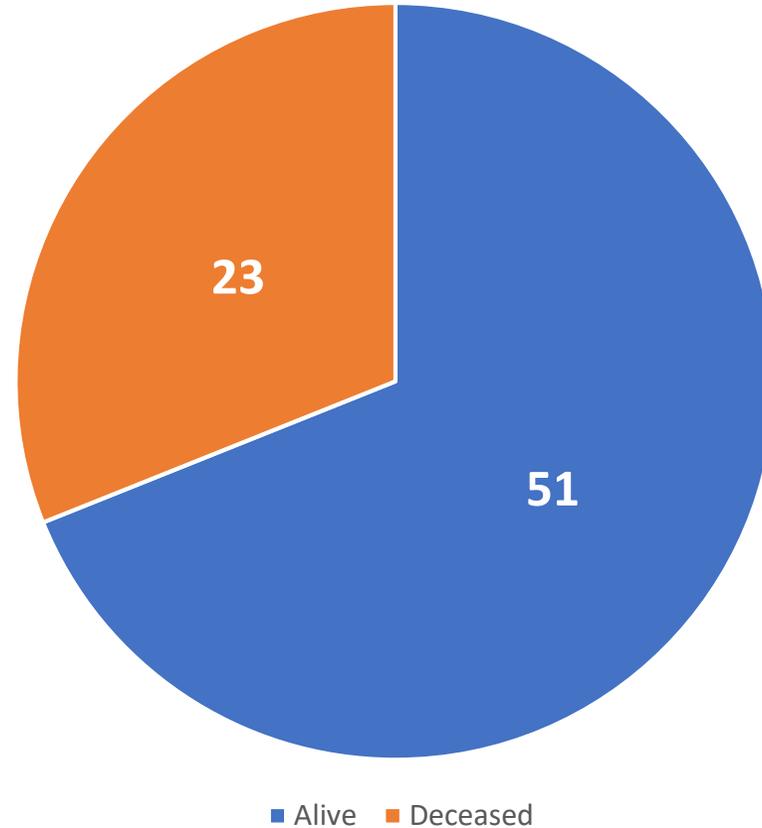


ARBI – Mortality

23 (29.1%) of our 74 patients had died at 12 months from diagnosis.

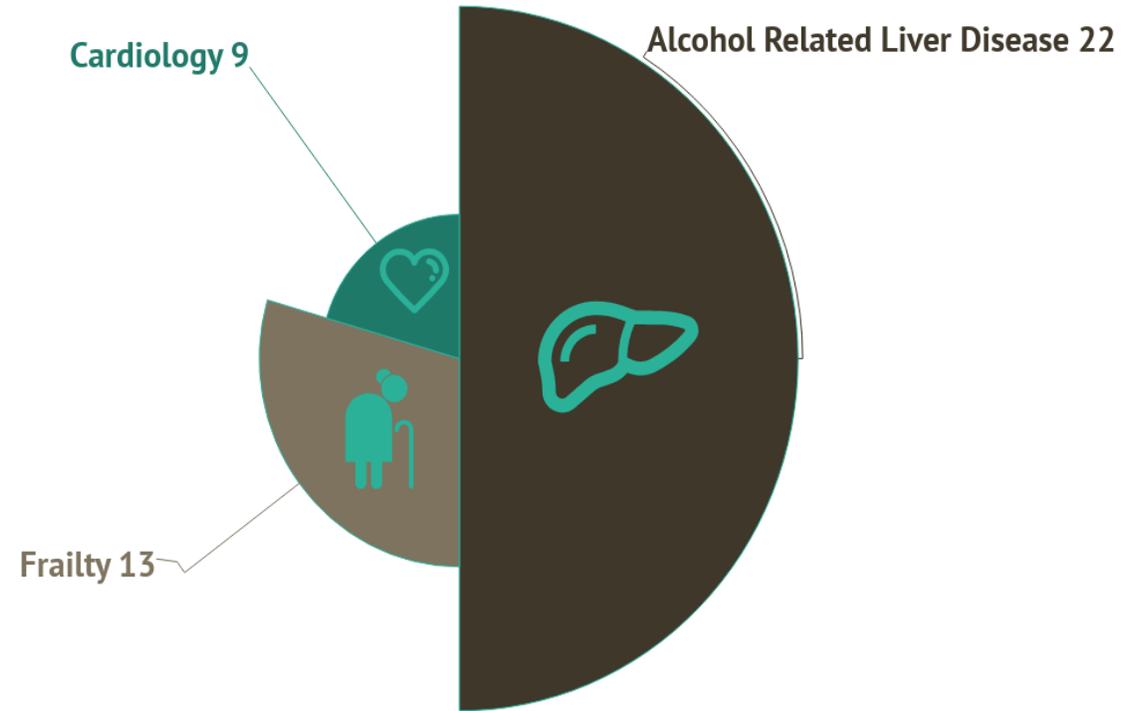
We plan to follow our cohort for the next 2 years to understand mortality in this population

Mortality at 12 months from diagnosis



ARBI – Comorbidity

Liver Disease, Cardiology and Frailty where the 3 key comorbidity trends seen in our patients.



	Child Pugh Class	Number of Patients
	A	9
	B	6
	C	7

ARBI – Success

93% of all patients with a MoCA of 23 or less received a diagnosis of ARBI from a consultant psychiatrist

32 of our 74 patients were either homeless or living in sheltered accommodation and hostels

Feedback from patients and their families was overwhelmingly positive. Many were happy to understand why their relatives' behavior had changed.



ARBI – Success

24 out of 32 patients achieved a MoCA score above 23 after 12 Months. The key factor in this was the cessation of alcohol intake

Of our 74 patients we see a reduction at 3 months in ED attendances and in the number of acute admissions to hospital.

Figure 3: Patients showing improvement at 3 Month follow up (N=32)

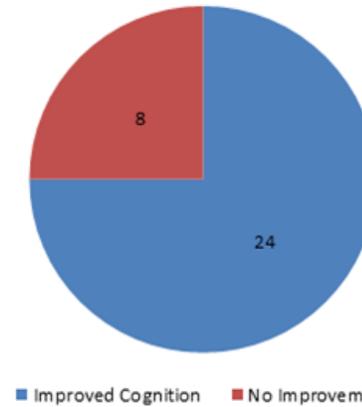
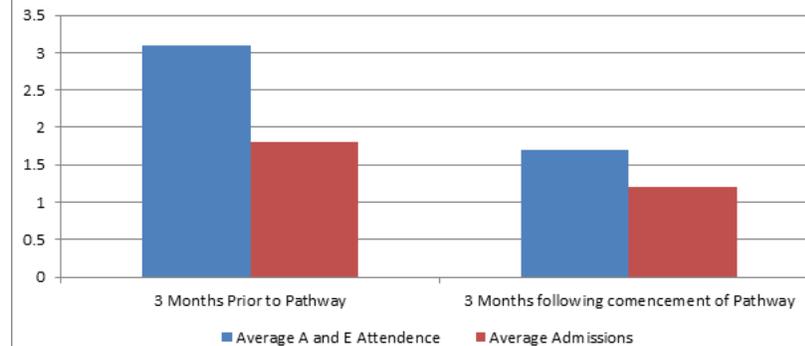


Figure 4: ED Attendances and Admissions



ARBI – Key areas in developing pathways

Prevention
&
Early
Intervention

Identification

Physical
Stabilisation
&
Withdrawal

Psycho-
Social
Assessment

Therapeutic
&
Adaptive
Rehabilitation

Social
Integration
& Relapse

Note:

- The duration of each phase will vary between individuals and will be informed by physical psychiatric and social complications.
- The demarcation between phases may be blurred and phases may overlap a bit.
- In rapidly recovering individuals with little long term related brain damage; the individual may skip phase 3 and 4 or move through these stages very quickly.



ARBI – Moving Forward

- Increase links with Social Care and the 3rd Sector
- Begin work in gaining agreement on a diagnostic criteria
- Refine the patient pathway
- A Multi Stage MDT to better support patients
- Wider Cheshire and Merseyside HCP adoption



Thank You

