



Alcohol Related Brain Injury

Our work in the Acute Sector

Dr Paul Richardson – Consultant Hepatologist

Dr Lynn Owens – Nurse consultant

Dr Cecil Kulu – Consultant Psychiatrist

Alcohol Care Team

David Byrne

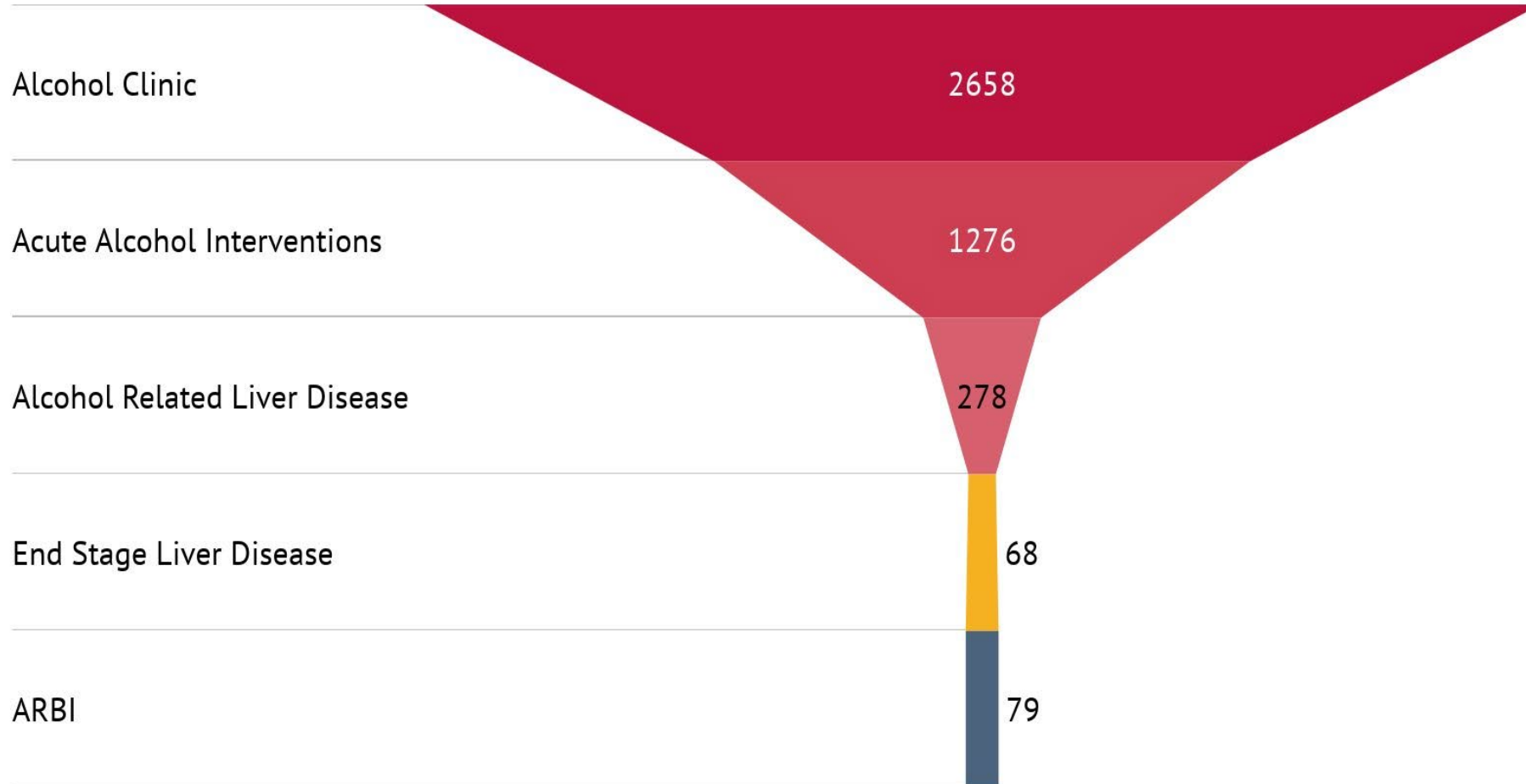


The Royal Liverpool Hospital – Alcohol Care Team

- 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



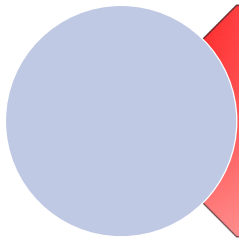
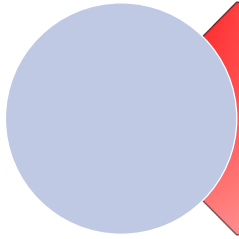
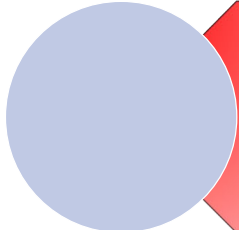
ARBI – Project Structure

- 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


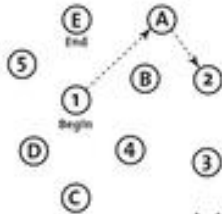





ARBI – Montreal Cognitive Assessment (MoCA)

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) (1 point)																			
				[]		[]		<div style="display: flex; justify-content: space-around;"> [] Contour [] Numbers [] Hands </div>																			
NAMING																											
[]				[]		[]																					
MEMORY				Read list of words, subject must repeat them. Do 3 trials. Do a recall after 5 minutes.		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td>FACE</td> <td>VELVET</td> <td>CHURCH</td> <td>DAISY</td> <td>RED</td> </tr> <tr> <td>1st trial</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2nd trial</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			FACE	VELVET	CHURCH	DAISY	RED	1st trial						2nd trial						No points	
	FACE	VELVET	CHURCH	DAISY	RED																						
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																					
Read list of letters. The subject must tap with his hand at each letter A. No points if 2 errors [] FBACMNAAJKBFAKDEAAAAJAMOFAB				[]		[]																					
Serial 7 subtraction starting at 100 [] 93 [] 86 [] 79 [] 71 [] 65				4 or 5 correct subtractions: 2 pts, 3 or 4 correct: 2 pts, 1 correct: 1 pt, 0 correct: 0 pt		[]																					
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. []																					
Fluency / Name maximum number of words in one minute that begin with the letter F [] _____ (N 2 n words)				[]		[]																					
ABSTRACTION				Similarity between e.g. banana - orange = fruit [] train - bicycle [] watch - ruler		[]																					
DELAYED RECALL				How to recall words WITH NO CUE		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>FACE</td> <td>VELVET</td> <td>CHURCH</td> <td>DAISY</td> <td>RED</td> </tr> <tr> <td>[]</td> <td>[]</td> <td>[]</td> <td>[]</td> <td>[]</td> </tr> </table>		FACE	VELVET	CHURCH	DAISY	RED	[]	[]	[]	[]	[]	Points for UNOVED recall only									
FACE	VELVET	CHURCH	DAISY	RED																							
[]	[]	[]	[]	[]																							
Optional				Category cue		[]																					
Multiple choice cue				[]		[]																					
ORIENTATION				[] Date [] Month [] Year [] Day [] Place [] City		[]																					
© J. Newbold MD Version November 7, 2004				Normal 230 / 30		TOTAL		Add 1 point if 5/5 yr olds																			
www.mocatest.org																											



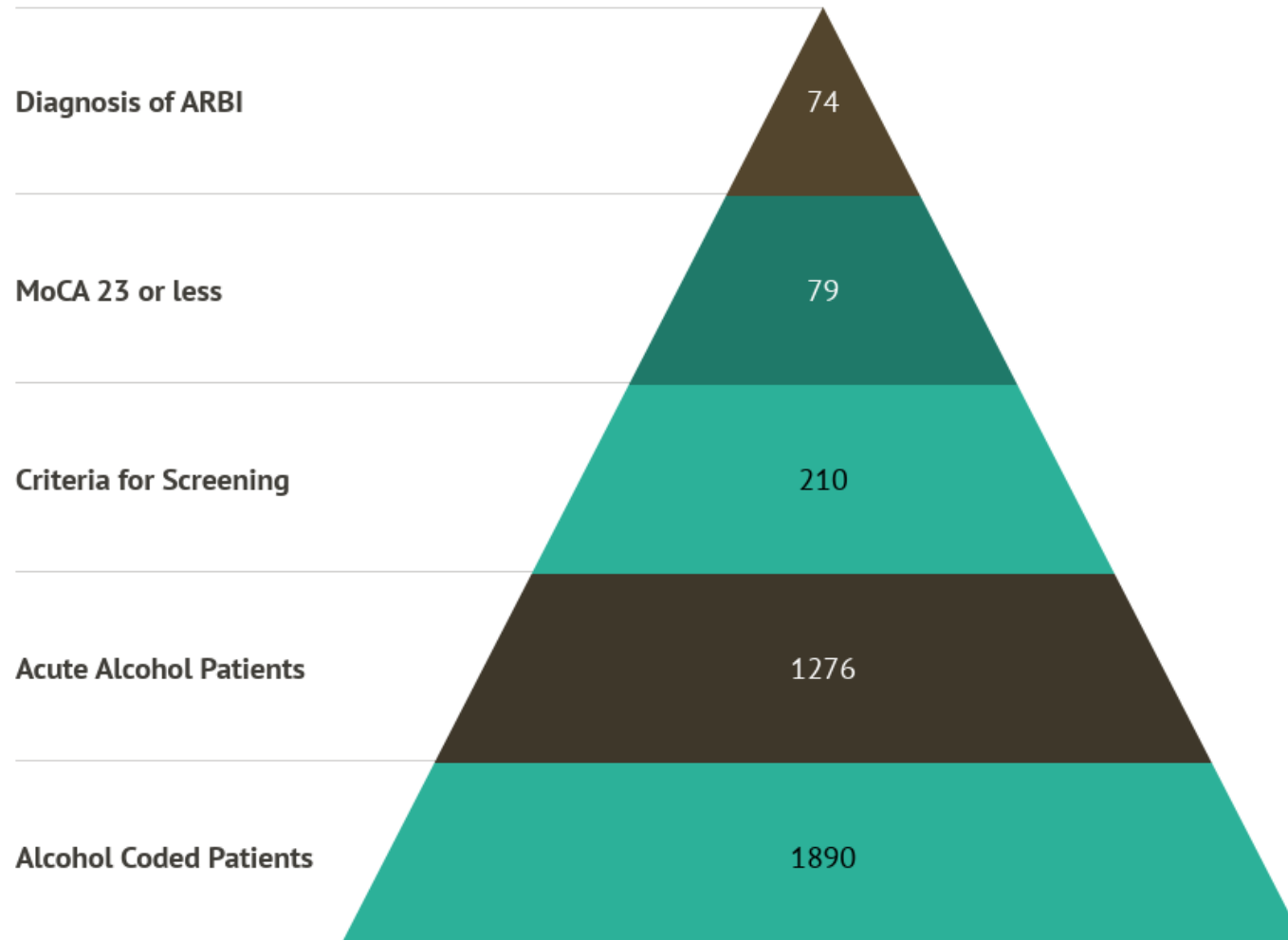
ARBI – Multi Disciplinary Team Meeting

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

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



ARBI – Our Population

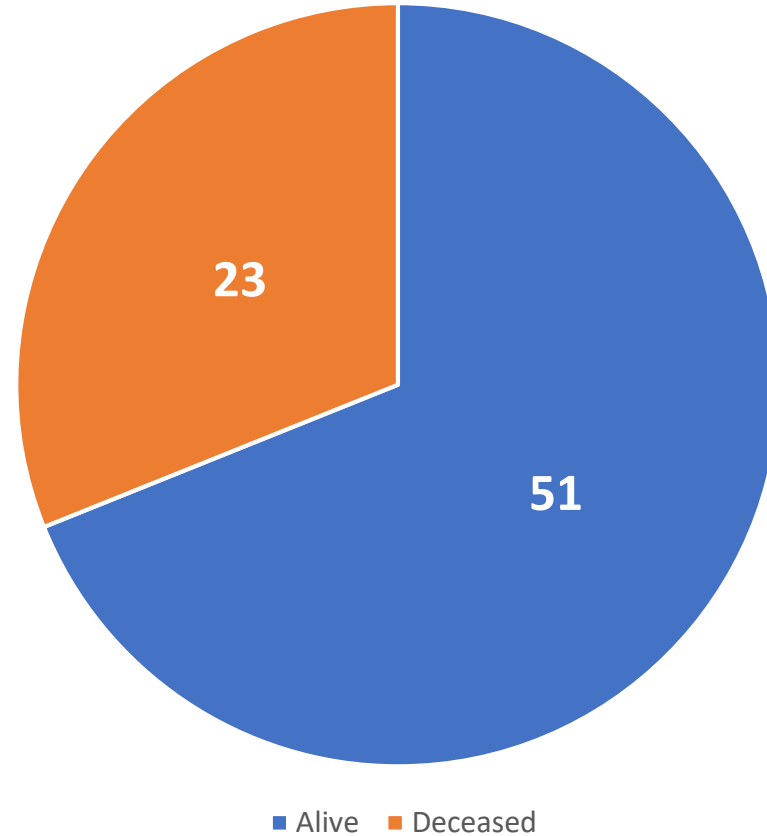


ARBI – Mortality

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

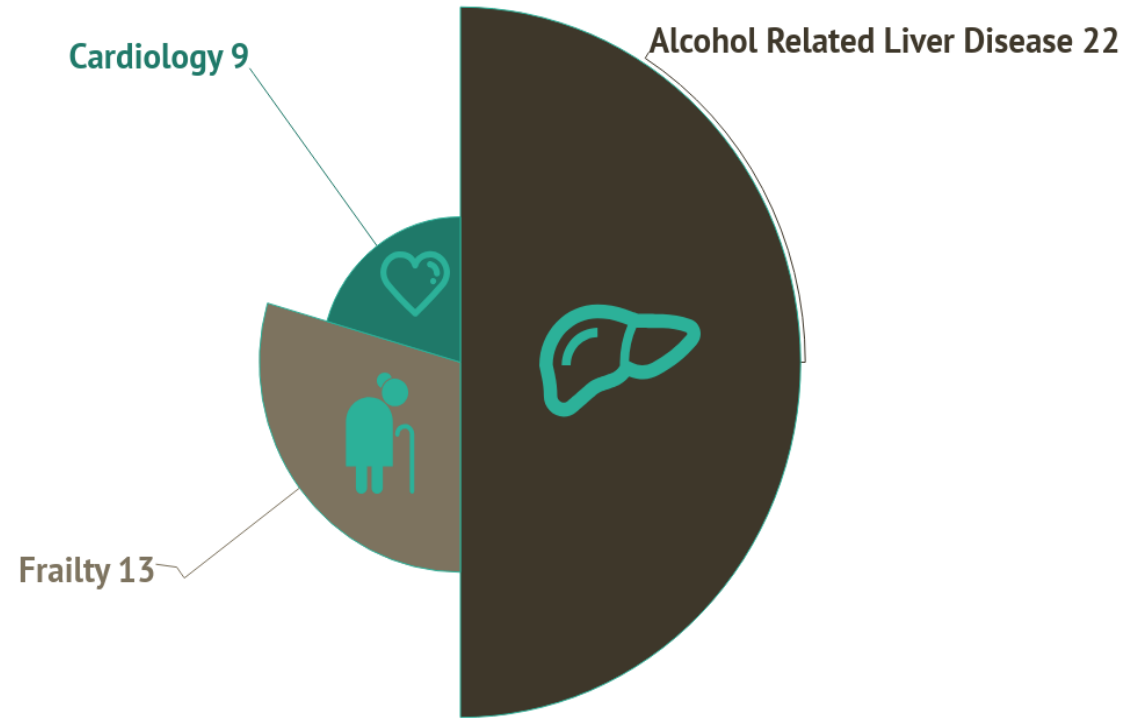
We plan to follow our cohort for the next 2 years to understand mortality in this population




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 happy to over 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)

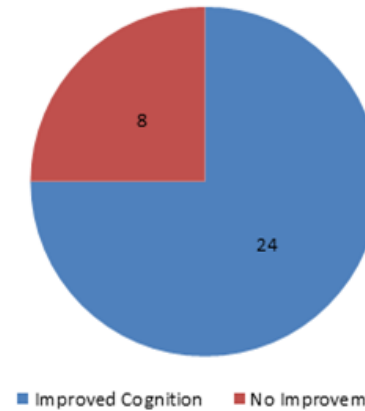
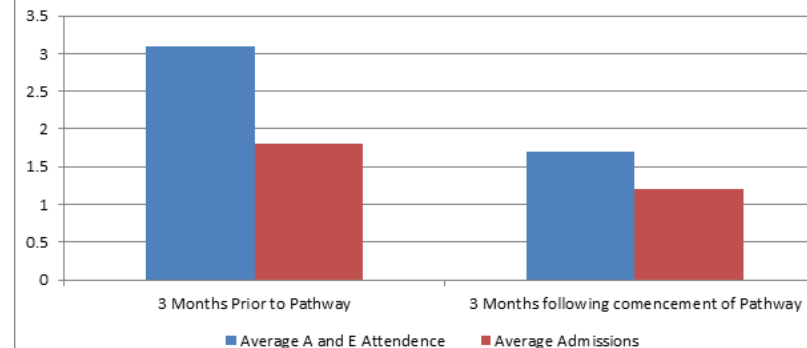


Figure 4: ED Attendances and Admissions



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

