Biopsy in ArLD

Does anyone routinely biopsy in ArLD?

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no

Biopsy for research – why?

- Mechanistic
- Stratification
- Outcome

Biopsy for research

- Phase II
 - Probably
- Phase III
 - Probably not

Biopsy *for* research – why not?

• Patients don't like it – affects recruitment

- Not a patient-relevant outcome
- No information (yet) on histology surrogate outcomes

Biopsy as research

Worldwide Alcoholic Liver Disease Outcomes Study

Biopsy as research

Study	Events	Total		Proportion	95%-CI	Weight
Mortality = Overall			:			
Powell 1968	27	278		0.10	[0.06: 0.14]	10.4%
Morgan 1977	2	36 -		0.06	[0.01; 0.19]	4.5%
Gines 1987	7	122	- <u>÷</u>	0.06	[0.02; 0.11]	8.0%
Orrego 1987	12	140		0.09	[0.05; 0.14]	9.1%
Chedid 1991	10	39		0.26	[0.13; 0.42]	8.3%
Bouchier 1992	10	181	- <u>+</u> -	0.06	[0.03; 0.10]	8.8%
Masson 2014	6	134 -		0.04	[0.02; 0.09]	7.6%
Random effects model	2	930		0.08	[0.05; 0.13]	56.8%
Heterogeneity: $I^2 = 69\%$, τ^4	2 = 0.2592	$p < 0.0^{\circ}$	1			
Martality = Nan-livor						
Powell 1968	8	278 -		0.03	[0 01.0 06]	8 / %
Orrego 1987	2	140 -		0.03	[0.01, 0.00]	4.6%
Masson 2014	3	134 -		0.01	[0.00; 0.00]	4.0 <i>%</i>
Random effects model	Ũ	552 <		0.02	[0.01: 0.04]	18.7%
Heterogeneity: $I^2 = 0\%$. τ^2	$= 0. \rho = 0$.66		0.01		, .
J J	- ,					
Mortality = Liver						
Powell 1968	19	278	- <u>-</u>	0.07	[0.04; 0.10]	10.0%
Orrego 1987	10	140		0.07	[0.03; 0.13]	8.8%
Masson 2014	3	134 -		0.02	[0.00; 0.06]	5.7%
Random effects model	2	552		0.06	[0.03; 0.10]	24.5%
Heterogeneity: $I^2 = 46\%$, τ^4	- = 0.1045	p = 0.10	6			

Study	Events	Total	Proportion	95%-CI	Weight
Histology = Normal Mootoo 1992 Mathurin 2007 Random effects model Heterogeneity: $I^2 = 84\%$, τ	4 0 ² = 5.9318	40 193 233 8, <i>p</i> = 0.01	0.10 0.00 0.02	[0.03; 0.24] [0.00; 0.02] [0.00; 0.45]	7.1% 3.4% 10.5%
Histology = Steatosis Worner 1985 Mootoo 1992 Teli 1995 Mathurin 2007 Random effects model Heterogeneity: $l^2 = 43\%$, τ	0 8 9 21 ² = 0.1143	34	0.00 0.20 0.10 0.11 0.12	[0.00; 0.10] [0.09; 0.36] [0.05; 0.19] [0.07; 0.16] [0.07; 0.18]	3.4% 7.7% 7.8% 8.2% 27.1%
Histology = Steatohepa Sorenson 1984 Onacea 1991 Mootoo 1992 Pares 1996 Mathurin 2007 Random effects model Heterogeneity: $I^2 = 96\%$, τ	titis 129 8 16 9 25 $2^{2} = 1.6760$	258 212 40 26 193 729 0, $p < 0.01$	0.50 0.04 0.40 0.35 0.13 0.23	[0.44; 0.56] [0.02; 0.07] [0.25; 0.57] [0.17; 0.56] [0.09; 0.19] [0.08; 0.48]	8.4% 7.8% 7.9% 7.6% 8.3% 40.0%
Histology = Fibrosis Nakano 1982 Worner 1985 Marbut 1987 Random effects model Heterogeneity: $I^2 = 73\%$, τ	9 4 10 ² = 0.513 ⁴	$20 \\ 34 \\ 47 \\ 101 \\ 4, p = 0.03$	— 0.45 0.12 0.21 0.24	[0.23; 0.68] [0.03; 0.27] [0.11; 0.36] [0.11; 0.45]	7.4% 7.1% 7.8% 22.3%
Heterogeneity: $I^2 = 93\%$, τ	² = 1.3524	4, p < 0.01 0.2 0.3 0.4 0.5 0.6	j. 15	[0.09, 0.20]	100.0 /0

WALDO is an international collaboration that will pool outcome data from biopsy-proven cases of ALD









London - London Bridge Research Ethics Committee

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<u>Please note</u>: This is the favourable opinion of the REC only and does not allow you to start your study at NHS sites in England until you receive HRA Approval

07 December 2018

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Dear Dr Parker

Worldwide Alcohol related Liver Disease Outcomes study
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