

Improved survival following hepatitis C-related hepatocellular carcinoma diagnosis in the directacting antiviral therapy era in NSW, Australia

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Background

Worldwide: HCC is the second leading cause of cancer related death

In Australia: HCC is the fastest increasing cause of cancer related death

Hepatitis C virus (HCV) infection: a major risk factor for HCC

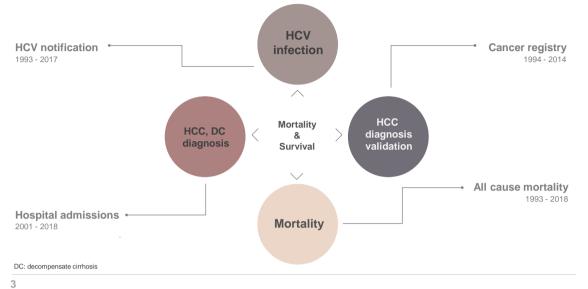
Direct-acting antiviral (DAA) treatment: available in Australia since 2015

Objective: To evaluate changes in HCV-HCC survival in the DAA era





Methodology



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Results

Demographic characteristics of people with an HCV notification (1995-2017)

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	HCV population				HCC population					
Characterostics (n, %)	No HCC n=97,199		HCC n=1,855		2001-2007 n=318		2008-2014 n=942		2015-2018 n=595	
Year of birth (median)	1966 1954		4	1947		1955		1957		
Male	61,848	64%	1480	80%	250	79%	735	78%	495	83%
Australia born	62,340	79%	1111	60%	130	41%	568	61%	413	69%
Aboriginal and Torres Islanders	12,324	13%	110	6%	3	1%	51	5%	56	9%
Alcohol use disorder	18,173	19%	763	41%	76	24%	395	42%	292	49%
Curative HCC management	_	-	229	12%	33	10%	115	12%	81	14%
Death	11,135	11%	1,312	71%	265	83%	757	80%	290	49%

Median survival time of HCV-HCC (2001-2018)

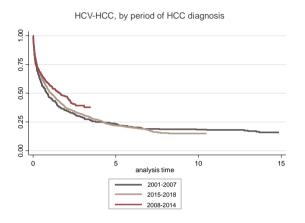
Time	HCC	Median survival					
period	псс	Months	95% CI				
2001-2007	318	10.1	7.44-13.8				
2008-2014	942	12.6	10.8-15.4				
2015-2018	595	19.2	14.0-25.3				
2001-2018	1,855	13.7	11.6-15.8				



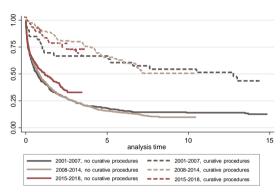


Results

Kaplan-Meier survival curves



HCV-HCC, by period of HCC diagnosis & curative procedures



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Discussion

In the DAA era, survival following HCC diagnosis has significantly improved in NSW.

The increase in HCV-HCC survival is despite an increasing proportion (24%-49%) of patients having alcohol use disorder as a co-morbidity.

The low proportion of curative HCC management (10%-14%) suggests a failure of HCC screening among patients with HCV-related cirrhosis.

Further analyses with individual HCV treatment data through Pharmaceutical Benefits Scheme (PBS) will be undertaken.





Supervisory team

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