# NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE

# **Centre for Clinical Practice – Surveillance Programme**

## Recommendation for Guidance Executive (post-consultation)

#### Clinical guideline

CG100: Alcohol-use disorders: diagnosis and clinical management of alcohol-related physical complications

CG115: Alcohol-use disorders: diagnosis, assessment and management of harmful drinking and alcohol dependence

#### **Publication date**

CG100 June 2010 CG115 February 2011

## **Surveillance report for GE (post-consultation)**

April 2015

#### Surveillance recommendation

GE is asked to consider the following proposal which was consulted on for two weeks:

• The Alcohol–use disorder guidelines, CG100 and CG115, should not be considered for an update at this time.

## **Key findings**

			Potential impact of	on guidance
			Yes	No
Evidence ident	ified from Evidence	Update		✓
Evidence ident	ified from literature	search		<b>√</b>
Feedback from	Guideline Develop	ment Group		<b>√</b>
Feedback from	stakeholders durin	g consultation		<b>√</b>
Anti-discrimina	Anti-discrimination and equalities considerations			<b>~</b>
No update	CGUT update	Standard update	Transfer to static list	Change review cycle
✓				

#### NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE

## Centre for Clinical Practice – Surveillance Programme

#### Surveillance review of

CG100: Alcohol-use disorders: diagnosis and clinical management of alcohol-related physical complications

CG115: Alcohol-use disorders: diagnosis, assessment and management of harmful drinking and alcohol dependence

Recommendation for Guidance Executive (post consultation)

## **Background information**

#### **Background information CG100**

Guideline issue date: June 2010

4 year review: 2015

• NCC: National Clinical Guidelines Centre

#### **Background information CG115**

• Guideline issue date: February 2011

4 year review: 2015NCC: Mental Health

#### Four year surveillance review

1. Evidence Updates were produced for the guidelines, CG100: <u>EU10</u> in 2012 and CG115: <u>EU28</u> in 2013 which were used as a source of evidence for the surveillance review proposal. The Evidence Updates did not indicate that there was new evidence to generate future change in either guideline. A literature search was conducted for randomised controlled trials and systematic reviews published from the end of the search period for each Evidence Update to 11<sup>th</sup> November 2014 and relevant abstracts were assessed. Clinical feedback was also obtained from members of the guideline development groups (GDG) through a guestionnaire. All studies highlighted through the

GDG questionnaire that were relevant to the scope of the guideline and met the study type inclusion criteria have been summarised in the evidence summary section of the table.

2. No new evidence was identified through the literature search which would invalidate the guideline recommendations.

## Ongoing research

- <u>HTA 13/86/03</u>: The effectiveness of adjunctive Medication Management and Contingency Management to enhance adherence to medications for relapse prevention in alcohol dependence. Estimated publication date June 2019. Developed in response to one of the research recommendations from CG115.
- <u>HTA 11/60/01</u>: Adaptation and feasibility study of a family and social network intervention for young people who misuse alcohol and drugs. Estimated publication date June 2016. This is a pilot study which aims to tackle the gap in the evidence base for effective interventions for young people (relevant to CG115).
- Efficacy and Safety of Baclofen for Maintenance of Abstinence in Alcohol Dependent Patients (ALPADIR). Trial completed end 2014, awaiting publication (relevant to CG115).
- Baclofen for the Treatment of Alcohol Drinkers (BACLOVILLE) (relevant to CG115).
- STOPAH trial: a multicentre, double-blind RCT comparing placebo to prednisolone or pentoxifylline and prednisolone combined has recently completed and is due to publish as a series of papers in the first half of 2015 (relevant to CG100).

## Anti-discrimination and equalities considerations

None identified.

#### Implications for other NICE programmes

- 4. CG100 and CG115 relate to a published quality standard for <u>Alcohol dependence and harmful alcohol use</u> (QS11, published August 2011).
- 5. The current surveillance review recommendation does not impact on any of the quality statements in the Quality Standard.

## Summary of stakeholder feedback

6. Stakeholders were consulted on the following proposal over a two week consultation period:

The Alcohol-use disorder guidelines, CG100 and CG115, should not be considered for an update at this time.

- 7. In total, 22 stakeholders (12 for CG100 and 10 for CG115) commented on the surveillance review proposal recommendation during the two week consultation period. The table of stakeholder comments can be viewed in Appendix 1.
- 8. For CG100, 1 stakeholder disagreed with the surveillance review proposal to not update the guideline at this time and 11 stakeholders agreed.
- 9. The stakeholder that disagreed with the proposal not to update CG100 wished to highlight two points. Firstly the importance of liver disease (as caused by alcohol, obesity and hepatitis) and its impact on the health of the population in the UK, and secondly the recent need for better detection and monitoring of individuals with cirrhosis. NICE has produced a range of guidelines and guidance that cover these areas of clinical management and population health. In addition NICE is currently developing new guidance on the Assessment and Management of Cirrhosis and Liver disease (non-alcoholic fatty). However, NICE does not routinely update clinical guidelines to reflect year on year changes in epidemiology. With regards to the detection and monitoring of individuals with cirrhosis it was determined during the development of the guideline, that the role of non-invasive markers as an alternative to an invasive procedure was relevant to all of hepatology and not specific to alcohol-related liver disease. As such, the guideline did not include a clinical question around the role of liver biopsy in the staging of alcohol related liver injury, and instead focused on whether a liver biopsy is required to confirm the diagnosis of alcoholic-liver disease or to determine whether there is an active alcohol-related hepatitis. NICE is currently developing a clinical guideline on the 'assessment and management of cirrhosis' which is due to be published in June 2016. This will cover primary and secondary NHS-commissioned care including referral to tertiary care, and will look at tests for the diagnosis of cirrhosis, tools to assess severity, monitoring to detect early complications, and management of complications.
- 10. For CG115, 5 stakeholders disagreed with the surveillance review proposal to not update the guideline at this time and 5 stakeholders agreed.
- 11. The stakeholders that disagreed with the proposal decision not to update CG115 indicated that the guideline should be updated to include the NICE technology appraisal guidance on <a href="nalmefene">nalmefene</a> (TA325) as a treatment option for people with mild alcohol dependency, in line with the NICE pathway on <a href="Alcohol-use disorder">Alcohol-use disorder</a>. Within the Pathway, nalmefene is recommended as the first-line treatment within its marketing authorisation, as an option for reducing alcohol consumption, for people with alcohol dependence who have a high drinking

risk level, without physical withdrawal symptoms, and who do not require immediate detoxification. NICE does not routinely update guidelines to integrate new NICE guidance, however, this will be considered if the guideline is deemed to require an update in the future.

#### Conclusion

12. Through the 4 year surveillance review of CG100 and CG115 and subsequent consultation with stakeholders no new evidence was identified which may potentially change the direction of current guideline recommendations. The proposal is not to update the Alcoholuse disorder guidelines at this time.

Mark Baker – Centre Director Philip Alderson – Clinical Adviser Emma McFarlane – Technical Adviser Katy Harrison - Technical analyst Diana O'Rourke - Technical analyst

Centre for Clinical Practice April 2015

# **Appendix 1 Surveillance review consultation**

Surveillance review consultation comments table 6 – 20 March 2015

## NICE guideline on <u>alcohol-use disorders (clinical management)</u> (CG100)

Туре	Stakeholder	Do you agree that CG100 should not be updated?	Comments on equality issues or areas excluded from the original scope	Comments	Response
GDG	GDG member	Agree			Thank you.
SH	British Society of Gastroenterology	Agree			Thank you.
SH	Royal College of Physicians	Agree			Thank you.
SH	NHS Lothian	Agree			Thank you.
SH	Alcohol Concern	Agree			Thank you.
SH	Lundbeck Ltd	Agree			Thank you.
SH	The Royal College of Pathologists	Agree		There is minimal linkage to the RCPath's interests and we would agree with the decision not to update this guideline.	Thank you for your comments.
SH	Royal College of Paediatrics and Child Health			Thank you for inviting the Royal College of Paediatrics and Child Health to comment on the two	Thank you for your comments.

Туре	Stakeholder	Do you agree that CG100 should not be updated?	Comments on equality issues or areas excluded from the original scope	Comments	Response
				consultations. We have not received any responses for this consultation.	
SH	Department of Health			I wish to confirm that the Department of Health has no views/concerns on the decision not to update NICE: CG100 Alcohol-use disorders: Diagnosis and clinical management of alcohol-related physical complications	Thank you for your comments.
SH	NHS England	Agree		I wish to confirm that on behalf of NHS England, NCD for GI and Liver Disease agrees that there is no need for an update.	Thank you for your comments.
SH	The Royal College of Nursing			The Royal College of Nursing invited members who expressed interest in this area of health to comment on the review proposal of the above consultation.  The feedback received suggests that there are no additional comments to make on behalf of the RCN.	Thank you for your comments.

Туре	Stakeholder	Do you agree that CG100 should not be updated?	Comments on equality issues or areas excluded from the original scope	Comments	Response
SH	Public Health England	Disagree		Public Health England (PHE) believes that CG100 should be updated. It is urgently in need of updating to take into account the findings in the Lancet Commission for liver disease and the National Confidential Enquiry into Patient Outcome and Death (NCEPOD) reports <sup>2</sup> .	Thank you for your comments and for the references you have provided.  The article from the Lancet highlights the impact that liver disease resulting from alcohol, obesity, and viral hepatitis has on the health of the UK population. NICE has a range of
				Liver disease is the second leading cause of premature mortality in working age in women, and the third leading cause in men. Deaths from all causes have reduced over the last few decades, but liver	guidelines and guidance that cover these areas of clinical management and population health. In addition NICE is currently developing new guidance on the Assessment and Management of Cirrhosis

<sup>&</sup>lt;sup>1</sup> Williams R, Aspinall R, Bellis M, Camps-Walsh G, Cramp M, Dhawan A et al. Addressing liver disease in the UK: a blueprint for attaining excellence in health care and reducing premature mortality from lifestyle issues of excess consumption of alcohol, obesity, and viral hepatitis. Lancet 2014 November 29; 384 (9958): 1953-97

<sup>384 (9958): 1953-97</sup>National Confidential Enquiry into Patient Outcome and Death. Measuring the Units: A review of patients who died with alcohol-related liver disease

Туре	Stakeholder	Do you agree that CG100 should not be updated?	Comments on equality issues or areas excluded from the original scope	Comments	Response
				deaths under the age of 65 have increased 500% since 1970 <sup>3</sup> . The majority of liver deaths occur as a result of excessive alcohol consumption, with continued alcohol consumption being the main factor in the poor survival of liver admissions to hospital. Overall mortality is around 70%.  The recent Lancet Commission for Liver Disease highlighted the failure of health services to detect and treat liver disease in subjects with an alcohol related risk. It is estimated that up to three-quarters of cases of cirrhosis are currently undetected, citing a reliance on outdated modes of diagnosis	and Liver disease (non-alcoholic fatty). However, we do not routinely update clinical guidelines to reflect year on year changes in epidemiology.  During development of the guideline, it was determined that the role of non-invasive markers as an alternative to an invasive procedure was relevant to all of hepatology and not specific to alcohol-related liver disease. As such, the guideline did not include a clinical question around the role of liver biopsy in the staging of alcohol related liver injury, and instead focused on whether a liver biopsy is required to confirm the diagnosis of alcoholic-liver disease or to

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<sup>&</sup>lt;sup>3</sup> Williams R, Aspinall R, Bellis M, Camps-Walsh G, Cramp M, Dhawan A et al. Addressing liver disease in the UK: a blueprint for attaining excellence in health care and reducing premature mortality from lifestyle issues of excess consumption of alcohol, obesity, and viral hepatitis. Lancet 2014 November 29; 384 (9958): 1953-97

Туре	Stakeholder	Do you agree that CG100 should not be updated?	Comments on equality issues or areas excluded from the original scope	Comments	Response
				(liver function tests and liver biopsy) as the main factor. In addition, the recent NCEPOD report highlighted failures in the management of patients with alcohol related liver disease in hospital <sup>4</sup> .  Newer non-invasive diagnostic technologies including fibroscan and liver fibrosis markers have revolutionised the diagnosis of liver disease in recent years, and are immediately applicable to patients diagnosed with an alcohol use disorder. However, very few alcohol treatment services are aware of these advances, with only a tiny handful applying this technology to detect and treat liver disease at the stage where progression to cirrhosis could be entirely	determine whether there is an active alcohol-related hepatitis.  NICE is currently developing a clinical guideline on the 'assessment and management of cirrhosis' which is due to be published in June 2016. This will cover primary and secondary NHS-commissioned care including referral to tertiary care, and will look at tests for the diagnosis of cirrhosis, tools to assess severity, monitoring to detect early complications, and management of complications.

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<sup>&</sup>lt;sup>4</sup> National Confidential Enquiry into Patient Outcome and Death. Measuring the Units: A review of patients who died with alcohol-related liver disease

Туре	Stakeholder	Do you agree that CG100 should not be updated?	Comments on equality issues or areas excluded from the original scope	Comments	Response
				reversed.  Furthermore, there is preliminary evidence that the detection of progressive liver fibrosis in general practice substantially enhances the response to alcohol brief advice <sup>5</sup> .	

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<sup>&</sup>lt;sup>5</sup> Sheron N, Moore M, O'brien W, Harris S, Roderick P. Feasibility of detection and intervention for alcohol-related liver disease in the community: the Alcohol and Liver Disease Detection Study (ALDDeS). Br J Gen Pract 2013 October; 63 (615): e698-e705

## NICE guideline on <u>alcohol dependence and harmful alcohol use</u> (CG115)

Туре	Stakeholder	Do you agree that CG115 should not be updated?	Comments on equality issues or areas excluded from the original scope	Comments	Response
GDG	GDG Member	Agree			Thank you.
SH	Royal College of Paediatrics and Child Health			Thank you for inviting the Royal College of Paediatrics and Child Health to comment on the two consultations. We have not received any responses for this consultation.	Thank you.
SH	British Society of Gastroenterology	Agree			Thank you.
SH	Royal College of Physicians	Agree			Thank you.
SH	The Royal College of Nursing			The Royal College of Nursing invited members who expressed interest in this area of health to comment on the review proposal of the above consultation.  The feedback received suggests	Thank you.
				that there are no additional comments to make on behalf of the RCN.	
SH	NHS Lothian	Disagree		CG115 should be updated in sections on mild dependence	Thank you for your comments.

Туре	Stakeholder	Do you agree that CG115 should not be updated?	Comments on equality issues or areas excluded from the original scope	Comments	Response
				and reduction of alcohol, as for example in the NICE pathway on interventions for harmful drinking and mild alcohol dependence, to include the findings of the NICE technology appraisal TA325: "Nalmefene for reducing alcohol consumption in people with alcohol".  After all, it is the only pharmacological treatment that is tested, and licensed for, treatment in that group? (To further support this, I believe that TA325 was the only significant new evidence noted highlighted in the CH115 'surveillance report'?)	NICE does not routinely update guidelines to integrate new NICE guidance/products but this is considered when the guideline recommendations are deemed to be out of date and new evidence is available.  NICE has developed the NICE Pathway to bring together all the relevant guidance and supporting information for each topic. The NICE pathway for Alcohol-use disorder brings together the recommendations from CG115 and TA325. Within the Pathway, Nalmefene is recommended as the first-line treatment within its marketing authorisation, as an option for reducing alcohol consumption, for people with alcohol dependence who have a high drinking risk level, without physical withdrawal symptoms,

Туре	Stakeholder	Do you agree that CG115 should not be updated?	Comments on equality issues or areas excluded from the original scope	Comments	Response
					and who do not require immediate detoxification.
SH	Public Health England	Disagree		<ul> <li>Most significantly, since the guidance was published, there has been a technology appraisal on Nalmefene (TA325). This technology is for the treatment of alcohol dependence and its role in the treatment system and its place in the pathway should be integrated into the CG115 guideline.</li> <li>Also, the Department of Health has commissioned Sheffield University to develop a capacity model for</li> </ul>	Thank you for your comments.  NICE does not routinely update guidelines to integrate new NICE guidance/products but this is considered when the guideline recommendations are deemed to be out of date and new evidence is available.  NICE has developed the NICE Pathway to bring together all the relevant guidance and supporting information for each topic. The NICE pathway for Alcohol-use disorder brings together the recommendations from CG115 and TA325.  Thank you highlighting the ongoing work by Sheffield University on the capacity needed for alcohol services and for indicating that research

Туре	Stakeholder	Do you agree that CG115 should not be updated?	Comments on equality issues or areas excluded from the original scope	Comments	Response
				alcohol treatment. The work aims to identify a methodology by which prevalence of alcohol dependence can be established at a local level and to identify the optimum capacity of treatment services required to meet need. This work is due to complete in early 2016.  PHE is currently undertaking research to identify the impact of alcohol treatment on offending behaviour by cross-referencing data from the National Drug Treatment Monitoring System and the police national computer. Early results suggest a post treatment reduction on offending.	supports the benefits of alcohol treatment on a number of outcomes, including reducing criminality and offending behaviour. Newly published evidence relevant to the guideline will be considered at the next surveillance review point.

Туре	Stakeholder	Do you agree that CG115 should not be updated?	Comments on equality issues or areas excluded from the original scope	Comments	Response
SH	Alcohol Concern	Disagree		We understand that the current guideline recommendations in CG115 clearly include (unlicensed) pharmacological interventions for people with harmful or mild dependence. Specifically these recommendations state "If service users have not responded to psychological interventions alone, or specifically request a pharmacological intervention, consider offering acamprosate or oral naltrexone in combination with an individual psychological intervention (such as cognitive behavioural therapies, behavioural therapies or social network and environment-based therapies) or behavioural couples therapy." (NICE CG115 Short page 13).	Thank you for your comments.  The guideline makes recommendations for people based on their alcohol dependence or alcohol use. No new evidence was identified through the surveillance review which would suggest that an update is needed relating to interventions for different levels of alcohol dependency alone.  NICE does not routinely update guidelines to integrate new NICE guidance/products but this is considered when the guideline recommendations are deemed to be out of date and new evidence is available. The NICE pathway for Alcohol-use disorder brings together the recommendations from CG115 and TA325. Within the Pathway, Nalmefene is recommended as

Туре	Stakeholder	Do you agree that CG115 should not be updated?	Comments on equality issues or areas excluded from the original scope	Comments	Response
				CG115 would allow the appropriate evaluation of the evidence bases for different interventions within the three levels of severity of alcohol dependence.  As TA325 appears to be the only significant new evidence highlighted in the surveillance report, we consider that CG115 should only be updated in the sections relevant to mild dependence in line with the NICE pathway on interventions for harmful drinking and mild alcohol dependence.	the first-line treatment within its marketing authorisation, as an option for reducing alcohol consumption, for people with alcohol dependence who have a high drinking risk level, without physical withdrawal symptoms, and who do not require immediate detoxification.
SH	Lundbeck Ltd	Disagree		The 4 years surveillance review report states that the GDG highlighted "that a change in the guideline may be required to take account of TA325: nalmefene for reducing alcohol consumption in people with alcohol". Lundbeck strongly	Thank you for your comments.  NICE does not routinely update guidelines to integrate new NICE guidance/products but this is considered when the guideline recommendations are deemed to be out of date and

Туре	Stakeholder	Do you agree that CG115 should not be updated?	Comments on equality issues or areas excluded from the original scope	Comments	Response
				support this view due to the fact that this technology appraisal is relevant new published evidence directly addressing the surveillance review research question: "Q. For people with alcohol dependence or harmful alcohol use, what pharmacological interventions are more clinically and cost effective? In addition:  (a) What are the impacts of severity and comorbidities on outcomes?  (b) When should pharmacological treatments be initiated and for what duration should they be prescribed?"  Lundbeck strongly disagree with the comments in the "Impact" section of the surveillance report that "The new evidence identified for nalmefene, including 3 studies which formed the evidence base for	new evidence is available. The NICE pathway for Alcohol-use disorder brings together the recommendations from CG115 and TA325. Within the Pathway, Nalmefene is recommended as the first-line treatment within its marketing authorisation, as an option for reducing alcohol consumption, for people with alcohol dependence who have a high drinking risk level, without physical withdrawal symptoms, and who do not require immediate detoxification.

Туре	Stakeholder	Do you agree that CG115 should not be updated?	Comments on equality issues or areas excluded from the original scope	Comments	Response
				TA325, is unlikely to impact on the current guideline recommendations in CG115 which covers pharmacological interventions for people with moderate and severe alcohol dependence after a successful withdrawal from alcohol." This is factually inaccurate. The current guideline recommendations in CG115 clearly include (unlicensed) pharmacological interventions for people with harmful or mild dependence, with mild being the severity of dependence aligned with the nalmefene clinical studies and the indicated patient population in TA325. Specifically these recommendations state "If service users have not responded to psychological interventions alone, or specifically request a	

Туре	Stakeholder	Do you agree that CG115 should not be updated?	Comments on equality issues or areas excluded from the original scope	Comments	Response
		·		pharmacological intervention, consider offering acamprosate or oral naltrexone in combination with an individual psychological intervention (such as cognitive behavioural therapies, behavioural therapies or social network and environment-based therapies) or behavioural couples therapy." (NICE CG115 Short page 13).	
				Lundbeck also strongly agree with the surveillance report statement that "Clinical feedback indicated that an update of the guideline may be needed to take account of TA325 within the recommended care pathway for the treatment of alcohol dependence within CG115." Currently TA325 is included as a treatment option within the NICE pathway on interventions for harmful	

Туре	Stakeholder	Do you agree that CG115 should not be updated?	Comments on equality issues or areas excluded from the original scope	Comments	Response
				drinking and mild alcohol dependence. As the guideline currently stands this part of the pathway is inconsistent with the existing CG115 pathway/recommendations for people with mild dependence who require a treatment goal of reduction of alcohol. This inconsistency is likely to further delay implementation of the TA325 recommendations.	
				In conclusion, given that the nalmefene studies identified and the associated STA (TA325) appear to be the only significant new evidence highlighted in the surveillance report, we propose that CG115 is updated only in the specific sections relevant to mild dependence & reduction of alcohol in line with the NICE pathway on interventions for harmful drinking and mild	

Type Si	stakeholder	Do you agree that CG115 should not be updated?	Comments on equality issues or areas excluded from the original scope	Comments	Response
				alcohol dependence.	
C	The Royal College of Psychiatrists			"We would like to draw the attention of NICE to the recently published Royal College of Psychiatrists' College Report 185.  In particular, we would like to emphasize the importance of:  1. The under-diagnosis of the condition, and the need for appropriate screening.  2. The advised adaptation of the management of alcohol misuse as a consequence of alcohol related brain damage.  3. The importance of intervention in the case of more severe cases.  4. The importance of considering the rights of the individual in the context of the mental capacity act.  We appreciate that there is	Thank you for your comments.  We have read and assessed the report and as you have noted, there is very little new evidence in this area. The majority of the references contained within the report precede the publication date of the guideline.  However, as the report highlights NICE CG115 does make numerous recommendations relating to individuals with cognitive impairment, including comprehensive assessments and adapted management and support. In addition NICE CG100 recommends thiamine treatment for people at high risk of developing, or with suspected Wernicke's encephalopathy,

Туре	Stakeholder	Do you agree that CG115 should not be updated?	Comments on equality issues or areas excluded from the original scope	Comments	Response
				this field. However, there is a growing pressure apparent within the health community regarding the lack of pathways of care and management of this condition, ranging from the management of people undergoing alcohol treatment/management with cognitive damage to the more severe cases of brain damage acquired through long standing alcohol misuse and malnutrition.  The urgency of this issue is highlighted by the relatively high proportion of alcohol misusers who are recurrent and frequent attendees at accident and emergency departments and admissions into acute medical wards. What literature (as illustrated in the guideline) there is indicates that few of these patients are appropriately	admission to hospital for medically assisted alcohol withdrawal for people who have cognitive impairment.

Туре	Stakeholder	Do you agree that CG115 should not be updated?	Comments on equality issues or areas excluded from the original scope	Comments	Response
				screened, assessed or arrangements made for their treatment.	
				We are hopeful that the NICE team will consider the emerging importance and implications of this condition when revising the appropriate NICE guidance."	

# **Appendix 2 Decision matrix**

The tables below provide summaries of the evidence for key questions for which studies were identified.

#### NICE guideline on alcohol-use disorders (clinical management) (CG100)

New evidence was identified for the current 4 year surveillance review relating to the following clinical areas within the NICE guideline on <u>alcohol-use disorders (clinical management)</u>. This guideline covers inpatient unplanned alcohol withdrawal, alcohol related pancreatitis and alcohol related hepatitis.

Conclusions of Evidence Update (2012)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4 -year surveillance review (2015)				
Clinical Area 1. Acute Alcohol	Clinical Area 1. Acute Alcohol Withdrawal						
Q100:01 What are the benefits and risks	of unplanned 'emergency' withdrawal fro	m alcohol in acute medical settir	ngs versus discharge?				
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided by the GDG questionnaire.	No relevant evidence identified.				
Q100:02 What criteria (e.g. previous trea withdrawal for unplanned emergency with the control of	atment, homelessness, levels of home sup hdrawal from alcohol?	oport, age group) should be used	d to admit a patient with acute alcohol				
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided by the GDG questionnaire.	No relevant evidence identified.				
b) other benzodiazepines (chlordiazepox		clobazam, lorazepam) c) other a	m, clobazam, lorazepam) versus a) placebo agents (clomethiazole or carbamazepine) d)				
Benzodiazepines	Benzodiazepines	No GDG feedback was	No impact on recommendations.				
A Cochrane review (including 64	Lorazepam was found to be more	provided by the GDG	•				
studies, n= 4309) of participants	effective in terms of a faster response	questionnaire.	Benzodiazepines				
undergoing alcohol withdrawal found	rate in the drop of withdrawal severity		The updated Cochrane review identified				
that for reduction in seizures,	and total duration of withdrawal		by the Evidence Update and the trial from				
benzodiazepines were more effective	compared to chlordiazepoxide in a		the 4 year surveillance review support the				
than placebo <sup>1</sup> . However,	RCT in people undergoing alcohol		current recommendations in NICE CG100				
benzodiazepines did not show a	withdrawal(n=108) <sup>4</sup> .		for the use of benzodiazepines for acute				

Conclusions of Evidence Update (2012)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4 -year surveillance review (2015)
benefit compared with other drugs.			alcohol withdrawal.
Anticonvulsants A second Cochrane review (including 56 studies, n=4076) for alcohol withdrawal indicated anticonvulsants were not effective for reducing alcohol withdrawal seizures, adverse events, drop-outs or drop-outs due to adverse events compared to placebo <sup>2</sup> . However, carbamazepine was more effective than benzodiazepines in reducing the Clinical Institute Withdrawal Assessment – Alcohol revised (CIWA-Ar) score at the end of treatment.	Anticonvulsants A RCT on the efficacy and safety of 6 day treatment with fixed dose pregabalin (not licensed for this indication) for attenuating the severity of alcohol withdrawal symptoms (AWS) during detoxification (n=42) indicated that whilst safe this option had no clinical benefit over placebo <sup>5</sup> .  Adjunctives to benzodiazepines A RCT which compared lorazepam to ethanol/lorazepam for preventing AWS in people with myocardial infarction (n=57) indicated that both strategies		Anticonvulsant The results for both the Evidence Update and RCT identified at the 4 year surveillance review support NICE CG100, which recommends carbamazepine but no other anticonvulsant for alcohol withdrawal.  Adjunctives to benzodiazepines New evidence, 1 trial on each of 3 adjunctives to lorazepam all indicated some benefit. However, all these agents at present are not licensed for this use and the evidence base is still limited, with
Muscle relaxants A Cochrane review examining baclofen for alcohol withdrawal identified only 1 study (n=37) that met the inclusion criteria <sup>3</sup> . The study showed that baclofen and diazepam both reduced CIWA–Ar scores with no differences between treatments, although baclofen took longer to work.	had the same safety profiles and efficacy with regard to days spent in the cardiac intensive care unit and overall hospital stay <sup>6</sup> .  A RCT which evaluated up to 5 days of dexmedetomidine (not licensed for this indication) compared to placebo as adjunctive therapy to lorazepam in a symptom triggered regimen in people (n=24) with severe alcohol withdrawal was identified <sup>7</sup> . The study indicated that in the short term (first 24hrs) adjunctive dexmedetomidine maintains symptom control and reduces lorazepam exposure		regard to trial size and number. At present the evidence in this area is insufficiently robust to impact on CG100 and further research is necessary to demonstrate effectiveness of these treatments before they can be incorporated into CG100.  Muscle relaxants The limited evidence (1 small study) available for baclofen in alcohol withdrawal is unlikely to impact on NICE CG100. Further research is necessary to demonstrate effectiveness of this treatment before it can be incorporated into CG100.

Conclusions of Evidence Update (2012)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4 -year surveillance review (2015)
	compared to placebo but not in the long term (7 days). In addition bradycardia occurred more frequently in the dexmedetomidine group versus placebo group.		
	A RCT indicated that a single dose of intravenous phenobarbital (not licensed for this indication) combined with a standardised lorazepam-based alcohol withdrawal protocol decreases intensive care unit admission in emergency department patients (n=102) with acute alcohol withdrawal compared to adjunctive placebo <sup>8</sup> .		
	with a fixed-schedule benzodiazepine dos		and patient satisfaction associated with, red compared with loading-dose regimen
No relevant studies identified.	A RCT which compared the efficacy of a benzodiazepine loading versus a symptom-triggered protocol in the management of alcohol withdrawal in inpatients (n=47) found that both regimens produced the same outcomes in terms of withdrawal symptom management and benzodiazepine use <sup>9</sup> .  A second RCT which compared a fixed tapering dose with a symptom-triggered regimens of lorazepam for alcohol detoxification in male inpatients (n=63)	No GDG feedback was provided by the GDG questionnaire.	No impact on recommendations. CG100 recommends a symptom triggered regimen for drug treatment for people in acute alcohol withdrawal who are inpatients or patients in other settings with 24hr assessment and monitoring. The new evidence identified supports the effectiveness of this option and provides new evidence on the relative effectiveness of front loading. However at this time the clinical evidence for the front-loading schedule dosing is still limited as noted in the guideline with regards to sample size.

Conclusions of Evidence Update (2012)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4 -year surveillance review (2015)
	with uncomplicated alcohol withdrawal indicated that symptom-triggered lorazepam treatment for alcohol withdrawal resulted in administration of lower total doses of medication for a shorter duration <sup>10</sup> . Both regimens had the same incidence of complications like seizures or delirium tremens.		Further research is necessary to demonstrate effectiveness of front-loading schedules before it can be incorporated into CG100.
Q100-5 What assessment tools, incl triggered dose regimen in patients v		with improved clinical and pa	atient outcomes when using a symptom-
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided by the GDG questionnaire.	No relevant evidence identified.
	cy of a) neuroleptic agents, promazine h neuroleptic agents c) neurolepetic agen prazepam) for patients with DTs?		
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided by the GDG questionnaire.	No relevant evidence identified.
Q100-7 What is the safety and effica	cy of benzodiazepines versus a) placebo		other anticonvulsants for the prevention
of recurrent seizures during acute a			
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided by the GDG questionnaire.	No relevant evidence identified.
Q100-8 What is the accuracy of a too therefore at risk of developing acute	ol and/or clinical judgement for the a) as alcohol withdrawal?	sessment b) monitoring of par	tients who are alcohol dependent and
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided by the GDG questionnaire.	No relevant evidence identified.
Q100-9 Does the assessment and m	onitoring of patients with acute alcohol	withdrawal improve patient ou	tcomes?

Conclusions of Evidence Update (2012)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4 -year surveillance review (2015)
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided by the GDG questionnaire.	No relevant evidence identified.
	ment of Wernicke's encephalopathy, wo dose iii) optimum duration of treatment parison a-e		in c) oral thiamine d) multivitamins e)
No relevant studies identified.	An update of a Cochrane review on thiamine for prevention and treatment of Wernicke-Korsakoff Syndrome (WKS) in people who abuse alcohol was identified <sup>11</sup> . The review identified 2 studies, but only 1 contained sufficient data for quantitative analysis. The study of 105 participants compared dose levels of intramuscular thiamine. Better outcomes were observed at the highest dose 200mg/day compared to lowest 5mg/day dose. However the pattern of results did not reflect a simple doseresponse relationship. The review noted that this study had methodological shortcomings in design and in the presentation of results and concluded that there is insufficient evidence from RCTs to guide clinical practice around the dose, frequency, route or duration of thiamine treatment for prophylaxis against or treatment of WKS due to alcohol abuse.	Clinical feedback indicated that there had been discussions and contradictions in the public domain relating to the recommendations made in CG100 regarding the treatment of Wernicke's encephalopathy and the recommendations made subsequently in the BNF.	No impact on recommendations. CG100 recommends offering thiamine to people at high risk of developing, or with suspected, Wernicke's encephalopathy. Thiamine should be given in doses toward the upper end of the 'British National Formulary' range.  The recommendations were made by consensus due to the absence of RCTs on this subject. The new evidence provides support for the recommendations on WKS.  Clinical feedback indicated that there had been issues relating to the recommendation and the doses within the BNF. The doses within CG100 were decided by consensus to be at the upper limit of the BNF recommendations as the lower end (10-25mg/day) may not be adequate for individuals in a higher risk group.  Following publication of CG100 the BNF reviewed the doses of thiamine and BNF 61 (March 2011) added more specific

Conclusions of Evidence Update (2012)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4 -year surveillance review (2015)
			detail on the dosing of thiamine: intravenous infusion of I/V High Potency or by deep intramuscular injection into the gluteal muscle of IM High Potency, 2 pairs of ampules 3 times daily for 2 days; if no response, discontinue; if symptoms resolve after 2 days, give 1 pair of ampules once daily for 5 days or for as long as improvement continues.  This has been updated more recently in BNF 64 (2012), in response to comments from the manufacturer of Pabrinex®, and in line with the latest Maudsley guidelines (11th edition (2012)), the dose was amended to remove mention of the use of intramuscular Pabrinex® at the outset of treatment: 'Treatment of Wernicke's encephalopathy, by intravenous infusion of I/V High Potency, 2–3 pairs of ampules 3 times daily for 2 days; if no response, discontinue; if symptoms respond after 2 days, give by intravenous infusion of I/V High Potency or by deep intramuscular injection.
Q100-11 Which patients are at risk of	of developing Wernicke's encephalopath	y and therefore require prophy	 ylactic treatment?
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided by the GDG questionnaire.	No relevant evidence identified.

Conclusions of Evidence Update (2012)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4 -year surveillance review (2015)
Clinical Area 2. Alcohol related			
	ratory and clinical markers versus liver	biopsy for the diagnosis of a	cohol-related liver disease versus other
Causes of liver injury?  No relevant studies identified.	A systematic and economic evaluation which assessed the diagnostic accuracy, cost-effectiveness, and effect on patient outcomes of 4 non-invasive tests for liver fibrosis (the Enhanced Liver Fibrosis (ELF) test, FibroTest, FibroMAX and transient elastography FibroScan in patients suspected of having alcohol-related liver disease (ALD) <sup>12</sup> was identified. The study reports that no studies were identified that specifically assessed the ELF test, 3 studies of FibroTest, no relevant studies of FibroMax, and 6 studies of FibroScan assessing accuracy compared with biopsy in patients with known or suspected alcohol-related liver disease were identified. In all studies, the number of patients with suspected ALD was small, meaning that the estimated sensitivities and specificities were not robust. A <i>de novo</i> mathematical model was constructed but no conclusive estimate of the cost per QALY of each	No GDG feedback was provided by the GDG questionnaire.	No impact on recommendations. CG100 currently recommends that alternative causes of liver disease in people with a history of harmful or hazardous drinking who have abnormal liver blood test results should be excluded and patients referred to a specialist experienced in the management of alcohol-related liver disease to confirm a clinical diagnosis of alcohol-related liver disease. A liver biopsy can then be considered for the investigation of alcohol-related liver disease. In addition in people with suspected acute alcohol-related hepatitis, CG100 recommends considering a liver biopsy to confirm the diagnosis if the hepatitis is severe enough to require corticosteroid treatment.  The new evidence from the systematic review of non-invasive tests 12 was limited and described as not robust with regards to individuals with ALD. The second study identified did not specify the numbers with ALD and as such it has a limited impact
	non-invasive test could be provided.  A systematic review and meta- analysis of diagnostic accuracy		but indicates that fibroscan may be more clinically useful than APRI.

Conclusions of Evidence Update (2012)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4 -year surveillance review (2015)
	studies comparing fibroscan and aspartate transaminase to platelet ratio index (APRI) with liver biopsy for hepatic fibrosis which included 23 studies for fibroscan and 20 studies for APRI was identified <sup>13</sup> . For patients with stage IV fibrosis (cirrhosis), the pooled estimates for sensitivity of fibroscan were 83.4% and specificity 92.4% whereas for APRI sensitivity was 66.5% and specificity was 71.7%. However it should be noted that from the abstract it is unclear if any of the patients have alcohol dependence or had harmful drinking.		
Q100-13 What is the safety and accur decompensated cirrhosis?	acy of laboratory and clinical markers v	versus liver biopsy for the diag	gnosis of alcohol related hepatitis versus
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided by the GDG questionnaire.	No relevant evidence identified.
Q100-14 What length of abstinence is assessment for liver transplant?	needed to establish non-recovery of li		cessitates referral for consideration for
A RCT in people with Child–Pugh stage B alcoholic liver cirrhosis (n=120) to investigate the effect on 5-year survival of immediate listing for liver transplantation versus standard care was identified <sup>14</sup> . In the immediate listing group, participants (n=41) underwent transplantation at a median of 4.3 months compared to participants	A systematic review and meta- analysis including 7 cohort studies which examined the effect of abstinence from alcohol on survival of patients with alcoholic cirrhosis was identified. The study indicated that it takes at least 1.5 years of alcohol abstinence before a difference in survival can be observed between the		No impact on recommendations.  NICE CG100 recommends referral of patients for consideration of liver transplantation if they have decompensated liver disease after best management and 3 months' abstinence and are otherwise suitable candidates.  The RCT identified by the Evidence Update does not suggest benefit of early

Conclusions of Evidence Update (2012)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4 -year surveillance review (2015)
<ul><li>(n=15) in the standard-care group at a mean of 12.2 months.</li><li>A case-control study in patients with</li></ul>	abstinent and the continue drinking groups <sup>16</sup> .		transplantation, which may also be associated with detrimental outcome, lending support to this recommendation <sup>14</sup> .
medically unresponsive severe alcoholic hepatitis (n=26) looked at differences in survival between those selected for early liver transplantation and matched controls (n=26) who did not receive early transplantation <sup>15</sup> . In the transplantation group, 2-year survival was 71% compared with 23% in controls.	I-related hepatitis, what is the safety a	nd efficacy of corticosteroids	Whereas the case control study indicated a benefit-the systematic review gave no outcomes on recovery of liver damage from an assessment of the abstract. As such the strongest relevant new evidence supports the current guideline recommendations.
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided by the GDG questionnaire.	No relevant evidence identified.
Q100-16 What is the safety and efficac	cy of corticosteroids for acute alcohol-	related hepatitis?	
A 3 month RCT which compared pentoxifylline with prednisolone in people with severe alcoholic hepatitis (n=74) found that mortality was higher with prednisolone <sup>17</sup> .	A RCT was identified which evaluated the addition of pentoxifylline (not licensed for this indication) to prednisolone for 28 days compared to prednisolone alone in patients who were heavy drinkers with severe biopsy-proven alcoholic hepatitis (n=270) <sup>18</sup> . This study found that the addition of pentoxifylline did not alter 6-month survival and at 7 days, response to therapy was not different between the 2 groups.  A second study that evaluated	Clinical feedback highlighted the STOPAH trial: a RCT of steroids or pentoxifylline or in combination in comparison to placebo in people with alcoholic hepatitis that is underway in the UK. It was noted that this trial is due to publish in early 2015.	No impact on recommendations.  NICE CG100 recommends corticosteroid treatment for severe acute alcoholic hepatitis. The RCTs <sup>17,18,19</sup> and the systematic review on the use of pentoxifylline alone or in combination with prednisolone provide a limited and heterogeneous evidence base. As results are shortly expected from the STOPAH trial, it would be prudent to wait for this trial to publish before assessing any need to update this section of the guideline.

Conclusions of Evidence Update (2012)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4 -year surveillance review (2015)
	combined pentoxifylline and prednisolone versus pentoxifylline alone in people with acute alcoholic hepatitis (n=62) found that there was no additional benefit with combination compared to monotherapy on mortality and morbidity at 1 year <sup>19</sup> .		
	In addition, a systematic review (which included 10 trails, n=884) indicated that pentoxifylline was more effective than placebo for the prevention of hepatorenal syndrome but provides no survival benefit at 1 month in people with severe alcoholic hepatitis <sup>20</sup> . However, trials of pentoxifylline versus corticosteroid, or as combination therapy did not indicate any difference in reported outcomes.		
	A RCT which evaluated the impact of the 30 day addition of metadoxine (unlicensed for this indication), to standard treatment with glucocorticoids (prednisone) in patients with severe alcoholic hepatitis (n=70) compared to prednisone was identified <sup>21</sup> . Metadoxine adjunctive treatment increased 30 and 90 day survival and reduced the development or progression of encephalopathy and hepatorenal syndrome with the		

Conclusions of Evidence Update (2012)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4 -year surveillance review (2015)
	response to treatment been higher in those treated with metadoxine.		
	A RCT which compared combination therapy with glucocorticoids plus N-acetylcysteine with glucocorticoids alone in patients with severe alcoholic hepatitis (n=174) found that the addition of N-acetylcysteine did not alter 6 month survival <sup>22</sup> .		
a) enteral nutrition versus standard d b) enteral nutrition versus corticoster c) enteral nutrition in combination with	oids	nd efficacy of:	
No relevant studies identified.	A meta-analysis (including 7 trials) of nutritional supplementation versus diet alone for the management of hospitalised patients with alcoholic hepatitis (n=262) revealed no difference in mortality ascites or any biochemical parameter between 2 regimens <sup>23</sup> . However, encephalopathy showed an improvement or resolution with nutritional supplementation.  A RCT comparing 8 week enteral nutrition (4 weeks) with symptomatic support in patients (n=99) with alcoholic cirrhosis and jaundice but without severe acute alcoholic hepatitis found no difference in the strategies on reported outcomes of 1	No GDG feedback was provided by the GDG questionnaire.	No impact on recommendations.  The new evidence is in line with the previous reviewed studies reported in CG100. As such the new evidence supports the current recommendation to assess the nutritional requirements of people with acute alcohol-related hepatitis and offer nutritional support if needed and consider using nasogastric tube feeding.

Conclusions of Evidence Update (2012)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4 -year surveillance review (2015)
	year survival and hepatic and nutritional parameters <sup>24</sup> .		
	encephalopathy. No overall effect of the supplements on mortality in		
	medical patients was observed. The authors concluded that the data did		
	not justify the routine use of parenteral		
	nutrition, enteral nutrition, or oral nutritional supplements in patients with		

Conclusions of Evidence Update (2012)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4 -year surveillance review (2015)			
	liver disease.					
	A second systematic review and meta- analysis of RCTs (6 trials included) of oral or enteral nutritional supplementation on nutritional and clinical outcomes in adult patients with cirrhosis found that there was no reduction in mortality with this					
	intervention <sup>26</sup> .					
Clinical Area 3. Alcohol related Pancre Q100-18 What is the diagnostic accura pancreatitis?		omputed tomography (CT) for	the diagnosis of alcohol-related chronic			
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided by the GDG questionnaire.	No relevant evidence identified.			
	Q100-19 In patients with chronic alcohol-related pancreatitis, does early versus later referral for a) coeliac axis block b) transthoracic splanchnicectomy c) early referral for coeliac axis/plexus block versus transthoracic splanchnicectomy improve patient outcomes?					
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided by the GDG questionnaire.	No relevant evidence identified.			
Q100-20 In patients with chronic alcol	nol-related pancreatitis, what is the saf	ety and efficacy of a) transtho	racic splanchnicectomy compared with			
coeliac axis/plexus block? b) or either	r intervention compared to conservativ	e management?				
A meta-analysis (including 9 studies, n=376) which looked at pain relief after	No relevant studies identified.	No GDG feedback was provided by the GDG	No impact on recommendations.			
endoscopic-ultrasound directed coeliac axis block in people with chronic pancreatitis or pancreatic cancer was identified <sup>27</sup> . The overall proportion of		questionnaire.	The evidence from the Evidence Update supports the recommendation in NICE CG100 to offer coeliac axis block to people with poorly controlled pain from			

Conclusions of Evidence Update (2012)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4 -year surveillance review (2015)
patients with pain relief was 59.45%.	nol-related pancreatitis, does early vers	cue later referral for a) andoce	non-obstructive small duct chronic alcohol- related pancreatitis, but does not add any information to guide the choice of this treatment over splanchnicectomy or surgery, which are also recommended in NICE CG100 for this population of patients.
	ersus endoscopic interventional proced		
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided by the GDG questionnaire.	No relevant evidence identified.
			c interventional procedures compared
	ompared with conservative manageme		
A 5-year follow-up of a RCT in which people with symptomatic obstructive chronic pancreatitis (n=39) underwent either endoscopic or surgical drainage (pancreaticojejunostomy) of the pancreatic duct was highlighted <sup>28</sup> . The primary trial was stopped in 2004 because an interim analysis showed a benefit of surgical over endoscopic treatment. This report of long-term outcomes showed that the surgical group had higher pain relief compared with endoscopy. However, the pain scores seen in the surgical group were not different from the endoscopy. Of the group undergoing initial surgery, no patients developed recurrent pancreatic duct obstruction.	No relevant studies identified.	GDG feedback indicated that the long term data on efficacy and cost effectiveness of surgery versus endo-therapy for obstructive chronic pancreatitis was now available. This study formed part of the Evidence Update <sup>27</sup> .	No impact on recommendations.  The results of this trial lend support to NICE CG100 which recommends offering surgery in preference to endoscopic therapy to people with pain from largeduct (obstructive) chronic alcohol-related pancreatitis.

Conclusions of Evidence Update (2012)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4 -year surveillance review (2015)
Conversely, 9 people in the endoscopic treatment group had recurrent blockage.			
Q100-23 In patients with acute alcoho	ol-related pancreatitis, what is the safet	y and efficacy of prophylactic	antibiotics versus placebo?
A Cochrane review of prophylactic antibiotics in patients with severe acute pancreatitis and computed tomography (CT)-confirmed necrosis included 7 studies (n=404) and found no benefit of antibiotic prophylaxis for mortality, infected pancreatic necrosis, non-pancreatic infection, overall infection, fungal infections, or need for operative treatment <sup>29</sup> . Similar results were seen when beta-lactams and quinolones were analysed separately.  A meta-analysis of antibiotic prophylaxis in acute necrotising pancreatitis that included the studies in the above Cochrane review <sup>29</sup> plus a further 2 RCTs had broadly similar results to those of the Cochrane review, with the exception that infected pancreatic necrosis was reduced in the antibiotic group <sup>30</sup> .  Determining severity of pancreatitis A systematic review (14 studies included, n=1478) indicated that organ failure occurs in 40% and pancreatic necrosis occurs in 21% of people with	No relevant studies identified.	No GDG feedback was provided by the GDG questionnaire.	No impact on recommendations.  NICE CG100 recommends that prophylactic antibiotics should not be given to people with mild acute pancreatitis. For severe acute pancreatitis, in CG100 the GDG considered evidence that suggested antibiotics reduced mortality. The evidence from the Evidence Update is in line with the current recommendations.  Determining severity of pancreatitis The evidence identified in the Evidence Update was judged to be unlikely to affect NICE CG100 because the severe effects of pancreatitis were not investigated for the guideline, and the evidence from this trial does not directly influence clinical interventions for organ failure or infected pancreatic necrosis.

Conclusions of Evidence Update (2012)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4 -year surveillance review (2015)
acute pancreatitis with overall mortality been 13% <sup>31</sup> . People who had both			
organ failure and infected pancreatic			
necrosis had a higher risk of mortality than those who had only organ failure			
and those who only had infected			
pancreatic necrosis.			
	I-related pancreatitis, what is the safet	y and efficacy a) of nutritional	supplementation vs no nutritional
	rs) versus late supplementation c) NJ		
An updated Cochrane review of	A meta-analysis (including 7 trials) of	No GDG feedback was	No impact on recommendations.
enteral versus parenteral nutrition	nutritional supplementation versus diet	provided by the GDG	
(including 8 studies (2 previously)	alone for the management of	questionnaire.	The evidence from the Evidence Update
n=348) suggests that enteral nutrition	hospitalised patients with alcoholic		(2 systematic reviews <sup>32,33</sup> ) was on the
reduced mortality compared with	hepatitis (n=262) revealed no		whole included in the meta-analysis within
parenteral nutrition. The benefits of	difference in mortality ascites or any		CG100. The RCT within the Evidence
enteral nutrition were also seen for	biochemical parameter between 2		Update provides results that consistently
other outcomes including occurrence	regimens <sup>23</sup> . However, encephalopathy showed an improvement or resolution		agree with NICE CG100, which
of multiple organ failure <sup>32</sup> .	with nutritional supplementation.		recommends enteral feeding in preference to parenteral feeding if possible. More
A second systematic review found that	with nutritional supplementation.		recent results indicate that the benefits of
enteral nutrition when compared with,	A RCT comparing 8 week enteral		nutritional supplements may be limited to
parenteral nutrition reduced the odds	nutrition with symptomatic support (4		certain outcomes.
of having diarrhoea but increased the	weeks) in patients (n=99) with		
odds of hyperglycaemia needing	alcoholic cirrhosis and jaundice but		
insulin administration <sup>33</sup> .	without severe acute alcoholic		
	hepatitis found no difference in the		
A RCT of total enteral versus total	strategies on reported outcomes of 1		
parenteral nutrition in people with	year survival and hepatic and		
severe acute pancreatitis (n=107) on	nutritional parameters <sup>24</sup> .		
prophylactic antibiotics was			
identified <sup>34</sup> . Total parenteral nutrition	One systematic review with unclear		
increased organ failure, increased	populations (not specified in abstract if		

Conclusions of Evidence Update (2012)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4 -year surveillance review (2015)
need for surgical intervention, increased pancreatic septic necrosis and mortality.	participants have acute alcohol-related hepatitis) was identified: the meta- analysis of RCTs (6 trials included) of oral or enteral nutritional		
	supplementation on nutritional and clinical outcomes in adult patients with cirrhosis found that there was no reduction in mortality with this intervention <sup>26</sup> .		
	hol-related pancreatitis, what is the saf nt gain b) abdominal pain, duration of p		
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided by the GDG questionnaire.	No relevant evidence identified.
Research Recommendations		4.00.00.00.00.00	
	veness of admitting people who attend horith no admission and a planned medically		alcohol withdrawal for unplanned medically negard to the outcome of long-term
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided by the GDG questionnaire.	No relevant evidence identified.
	iveness of clomethiazole compared with c he outcomes of withdrawal severity, risk of		ne or benzodiazepines for the treatment of ens, length of treatment and patient
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided by the GDG questionnaire.	No relevant evidence identified.
	veness of interventions delivered in an ac n no input from an alcohol nurse specialist		ol specialist nurse compared to those
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided by the GDG	No relevant evidence identified.

Conclusions of Evidence Update (2012)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4 -year surveillance review (2015)
		questionnaire.	
RR4. What is the clinical and cost effect people undergoing medically assisted a	iveness of the use of parenteral versus or cohol withdrawal?	al thiamine in preventing the first	t onset of Wernicke's encephalopathy in
No relevant studies identified.	See question 11	No GDG feedback was provided by the GDG questionnaire.	No relevant evidence identified.
alcohol-related hepatitis in patients with	e use of liver biopsy in addition to laborate suspected alcohol-related liver disease?	ory and clinical markers for the c	liagnosis of alcohol-related liver disease or
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided by the GDG questionnaire.	No relevant evidence identified.
RR6 What is the clinical and cost-effecti related hepatitis?	veness of enteral nutritional support versu	is normal diet to improve surviva	l in patients with acute severe alcohol-
No relevant studies identified.	See question 17	No GDG feedback was provided by the GDG questionnaire.	No relevant evidence identified.
RR7 What is the clinical and cost-effecti pancreatitis?	veness of nasogastric versus nasojejunal	delivery of nutritional support to	patients with acute severe alcohol-related
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided by the GDG questionnaire.	No relevant evidence identified.
<b>NEW AREA Different drugs/treatment</b>	s for alcohol hepatitis		
Pentoxifylline for alcoholic hepatitis A Cochrane review (including 5 trials, n=336) indicated that pentoxifylline reduced mortality compared with control and reduced mortality due to hepatorenal syndrome in the metaanalysis <sup>35</sup> .	A systematic review (which included 10 trials, n=884) indicated that pentoxifylline was more effective than placebo for the prevention of hepatorenal syndrome but provides no survival benefit at 1 month in patients with severe alcoholic hepatitis <sup>20</sup> .  A RCT in patients with severe	No GDG feedback was provided by the GDG questionnaire.	No impact on recommendations.  NICE CG100 recommends corticosteroid treatment for severe acute alcoholic hepatitis.  The evidence with regards to the effectiveness of pentoxifylline is heterogeneous. As this agent is currently not licensed for this indication further

Conclusions of Evidence Update (2012)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4 -year surveillance review (2015)
	alcoholic hepatitis (n=50) compared 28 days of pentoxifylline (not licensed for this indication) or placebo found no difference in terms of short term mortality <sup>36</sup> .		research is necessary to demonstrate effectiveness before it can be incorporated into CG100. In addition, results are shortly expected from the STOPAH trial, therefore consideration of additional drugs should wait until this large UK trial published.
	A sub-analysis of the Study of Ascending Levels of tolvaptan (not licensed for this indication) trials which compared 30 day oral tolvaptan to placebo in cirrhotic patients (n =120) indicates that this is an effective treatment to raise serum sodium <sup>37</sup> . However hyponatremia recurred 7 days after discontinuation of tolvaptan.		The evidence for the use of tolvaptan and autologous bone marrow mononuclear cell transplantation indicates that these are not effective options. The use of candesartan with ursodeoxycholic acid is still limited and further research is necessary to demonstrate effectiveness before it can be incorporated into CG100.
	A RCT in patients (n=85) with compensated alcoholic liver fibrosis indicated that patients that received candesartan (not licensed for this indication) with ursodeoxycholic acid for 6 months had higher rates of histological improvements than those who received ursodeoxycholic acid alone <sup>38</sup> .		
	A RCT in patients (n=58) with decompensated alcoholic liver disease found that autologous bone marrow mononuclear cell transplantation did not improve liver function or regeneration compared to standard		

	Conclusions of Evidence Update (2012)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4 -year surveillance review (2015)
Ī		medical therapy (including steroids) <sup>39</sup> .		

#### NICE guideline on <u>alcohol dependence and harmful alcohol use</u> (CG115)

New evidence was identified for the current 4 year surveillance review relating to the following clinical areas within the NICE guideline on <u>alcohol dependence and harmful alcohol use</u>. This guideline covers assessment, pharmacological interventions, psychological and psychosocial interventions, and settings of assisted withdrawal and rehabilitation.

Conclusions of Evidence Update (2013)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4-year surveillance review (2015)		
Clinical Area 1: Experience of care					
115-01: For people who misuse alcoh-	ol, what are their experiences of have	ving problems with alcohol, of ac	cess to services and of treatment?		
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided through the GDG questionnaire.	No relevant evidence identified.		
support is available for families and c	arers?	neir experiences of caring for peo	pple with an alcohol problem and what		
A systematic review (21 studies, n=1500) found that interventions targeting family members' own needs can result in positive change in many areas such as health, coping, stress or distress, hardship and satisfaction (life or relationship). Although treatment groups generally fared better than control groups there was no single intervention that stood out <sup>40</sup> .	No relevant studies identified.	No GDG feedback was provided through the GDG questionnaire.	No impact on recommendations.  NICE CG115 recommends offering families and carers who are involved in supporting a person who misuses alcohol guided self-help and facilitating contact with support groups. If problems continue, the guideline states that family meetings should be considered which may include help in identifying sources of stress related to alcohol misuse and the exploration and promotion of effective coping behaviours. The findings of the systematic review identified by the Evidence Update are consistent with these recommendations.		
Clinical Area 2: Evaluating the organisation of care for people who misuse alcohol 115-03: In adults with alcohol misuse, what is the clinical efficacy, cost effectiveness, and safety of, and patient satisfaction associated with					
different systems for the organisation					
No relevant studies identified.	One RCT was identified which evaluated the effectiveness of	No GDG feedback was provided through the GDG questionnaire.	No impact on recommendations. The new evidence is consistent with NICE		

Conclusions of Evidence Update (2013)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4-year surveillance review (2015)		
	Chronic care management (CCM) (including longitudinal care coordinated with a primary care clinician; motivational enhancement therapy; counselling, addiction and psychiatric treatment, and social work assistance) for improving care and outcomes in people with alcohol and other drug dependence (n=563). The results showed no difference in self-reported abstinence between CCM and no CCM (a primary care appointment and a list of treatment resources) <sup>41</sup> . Another RCT (n=163) was identified which tested the effectiveness of a primary care-based Alcohol Care Management (ACM) programme, delivered inperson or by telephone, for alcoholdependent veterans. The results showed that ACM increased rates of engagement in treatment and reduced heavy drinking compared to standard treatment in an outpatient addiction treatment programme <sup>42</sup> .		CG115 which recommends for all people who misuse alcohol, offer interventions to promote abstinence or moderate drinking as appropriate and prevent relapse, in community-based settings. This includes psychological interventions for harmful drinkers and people with mild alcohol dependence.		
Clinical Area 3: The assessment of h	armful drinking and alcohol depende				
115-04: What are the most effective (					
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided through the GDG questionnaire.	No relevant evidence identified.		
115-05: What are the most effective ways of monitoring clinical progress in alcohol dependence and harmful alcohol use?					

Conclusions of Evidence Update (2013)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4-year surveillance review (2015)	
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided through the GDG questionnaire.	No relevant evidence identified.	
115-06: To answer questions 4 and 5,	what are the advantages, disadvant	ages, and clinical utility of:		
<ul> <li>the structure of the overall clinical</li> </ul>	l assessment			
biological measures				
psychological/behavioural measure				
<ul> <li>neuropsychiatric measures (inclu</li> </ul>	ding cognitive impairment)			
physical assessment?				
No relevant studies identified.	A systematic review and meta- analysis (15 studies) was identified which evaluated the use of ethyl glucuronide (HEtG) as a marker in hair for identifying chronic excessive drinking and for monitoring abstinence. The review found differing levels of HEtG concentrations in hair between drinking groups, with increased levels in heavy and chronic excessive drinkers compared to social drinkers <sup>43</sup> .	No GDG feedback was provided through the GDG questionnaire.	No impact on recommendations. The guideline found no evidence to support the use of hair analysis for diagnosis, assessment and monitoring clinical progress in alcohol dependence and harmful alcohol use. Whilst the new evidence indicates that HEtG is a promising marker for identifying excessive drinking and monitoring abstinence, further consistent evidence is needed to demonstrate effectiveness before it can considered for inclusion in CG115.	
115-07: What are the most effective (a people (aged 10–18 years)?	a) diagnostic and (b) assessment too	ols for alcohol dependence and h	armful alcohol use in children and young	
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided through the GDG questionnaire.	No relevant evidence identified.	
115-08: What are the most effective w people (aged 10–18 years)?	rays of monitoring clinical progress	in alcohol dependence and harm	ful alcohol use in children and young	
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided through the GDG questionnaire.	No relevant evidence identified.	
Clinical Area 4: Determining the appro				
115-09: In adults in planned alcohol withdrawal, what is the clinical efficacy, cost effectiveness, safety of, and patient satisfaction associated with:				

Conclusions of Evidence Update (2013)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4-year surveillance review (2015)	
preparatory work before withdraw	<i>r</i> al			
different drug regimens				
• the setting (that is, community, re				
A RCT assessing the use of chlordiazepoxide in alcohol-dependent patients (n=165) undergoing outpatient alcohol withdrawal was identified. The study found no difference in treatment effectiveness between a fixed-dose and symptom-triggered drug regimen <sup>44</sup> .  A Cochrane review (including 13 RCTs, n=648) examining gammahydroxybutyrate (GHB) for alcohol withdrawal found insufficient evidence	No relevant studies identified.	No GDG feedback was provided through the GDG questionnaire.	No impact on recommendations.  NICE CG115 recommends that fixed-dose medication regimens should be used in community-based assisted withdrawal programmes. The evidence from the Evidence Update found no difference in treatment effectiveness between the two regimens in an outpatient setting therefore it is unlikely to impact on the current recommendation.  In relation to the use of GHB for alcohol withdrawal, the evidence from the	
of a difference in efficacy between GHB and placebo and other drugs. It also highlighted concerns about dependence and risk of misuse or abuse of GHB <sup>45</sup> .			Evidence Update is consistent with the recommendations in NICE CG115, which states 'do not use GHB for the treatment of alcohol misuse'.	
	vithdrawal what factors influence the	choice of setting in terms of clir	nical and cost effectiveness including:	
<ul> <li>severity of the alcohol disorder</li> <li>physical comorbidities</li> <li>psychological comorbidities</li> <li>social factors.</li> </ul>				
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided through the GDG questionnaire.	No relevant evidence identified.	
115-11: In adults with harmful or dependent alcohol use what are the preferred structures for and components of community-based and residential specialist alcohol services to promote long-term clinical and cost-effective outcomes?				
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided	No relevant evidence identified.	

### Conclusions of Evidence Update (2013)

New evidence/intelligence identified during this 4-year surveillance review (2015)

## Clinical feedback from the GDG

Conclusion of this 4-year surveillance review (2015)

through the GDG questionnaire.

#### Clinical Area 5: Psychological and psychosocial interventions

115-12: For people with alcohol dependence or who are harmful drinkers, is psychological *treatment x* when compared with *y*, more clinically and cost effective and does this depend on:

- presence of comorbidities
- subtypes (matching effects)
- therapist-related factors (quality, therapeutic alliance, competence, training, and so on).

#### Couples therapy

A systematic review (13 studies, n=1200) found that couples therapy resulted in positive outcomes, especially in drinking behaviour and marital adjustment, and that using a therapeutic approach can positively influence the success of the intervention<sup>40</sup>.

#### **Motivational techniques**

A RCT (n=138) was identified which compared treatment as usual, a motivation enhancement therapy (MET) and a peer-delivered twelvestep facilitation (P-TSF) intervention during alcohol detoxification. The results of the study showed MET was more effective than treatment as usual and P-TSF in term of initiating and maintaining patients in aftercare inpatient treatment programmes which is consistent with the recommendations in the guideline relating to motivational interviewing<sup>46</sup>.

#### 12-step facilitation

One RCT indicated that active referral to 12-Step self-help interventions delivered by doctors or peers were no more effective than no intervention in increasing abstinence rates in inpatients with alcohol and other substance dependence (n=151)<sup>50</sup>.

#### Behavioural therapies

A systematic review and metaanalysis (including 23 trials) which evaluated the benefits of behavioural counselling interventions for alcohol misuse indicated that there was a reduction in alcohol consumption in adults receiving behavioural interventions compared with controls<sup>51</sup>.

## Contingency management

One RCT of a portable Contingency management (CM)

Clinical feedback indicated that there are issues relating to the implementation of the recommendations relating to psychological treatments, stating that they represent the gold standard but are not always achievable in the current climate. It was highlighted that the guidance on the delivery of psychological treatment interventions as a necessary requirement for any prescribing of pharmacological therapies should therefore be reviewed.

#### No impact on recommendations.

#### 12-step facilitation

The evidence at the 4 year surveillance review is in line with the previous reviewed studies reported in CG115 which found no evidence to support a recommendation for 12-Step facilitation. As such, the new evidence is unlikely to impact on current recommendations relating to psychological treatments for alcohol misuse.

#### Behavioural therapies

NICE CG115 recommends for harmful drinkers and people with mild alcohol dependence, offer a psychological intervention (such as cognitive behavioural therapies, behavioural therapies or social network and environment-based therapies) focused specifically on alcohol-related cognitions, behaviour, problems and social networks. The evidence identified at the 4 year surveillance review is in line with the evidence in NICE CG115 and supports the current recommendation.

Conclusions of Evidence Update (2013)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4-year surveillance review (2015)
Talankana manitarina	procedure using a mobile phone		Continuos ou monos ou monos
Telephone monitoring	and breathalyser in non-		Contingency management
A substudy of an RCT (n=252) evaluating potential moderators of the	dependent, frequent drinking adults (n=30) was identified. The study		The limited evidence (1 small study)
effect of adding telephone monitoring	found no differences between		identified at the 4 year surveillance review is in line with the evidence in CG115
or telephone monitoring and	groups receiving modest		which found that the addition of
counselling to treatment as usual for	compensation or compensation		contingency management to standard
the treatment of alcohol dependence	plus CM and vouchers for the		care was beneficial in reducing the
was identified. Moderator variables	submission of on-time alcohol		number of participants who relapsed to
included years of regular alcohol use,	concentration breath tests.		heavy drinking. However, the evidence is
years of heavy alcohol use, number of	However, rates of negative breath		insufficient to answer the research
prior treatments for alcohol problems,	tests and duration of abstinence		recommendation which stated that the
days of alcohol use and heavy alcohol	were higher in the CM group <sup>52</sup> .		study should report short-and medium-
use. The study found that none of the			term outcomes of at least 18 months'
variables interacted with treatment	Psychological therapies and co-		duration; and needs to be large enough to
type to predict frequency of alcohol	morbidities		determine the presence or absence of
use and that there was no prediction of	A RCT (n=62) found that integrated		clinically important effects. Further
alcohol use versus abstinence.	CBT for co-morbid post-traumatic		consistent evidence is needed to
However, there were significant	stress disorder (PTSD) and alcohol		demonstrate effectiveness before it can
moderation effects favouring telephone	use disorders (AUD) was more		considered for inclusion in CG115.
monitoring over treatment as usual in	effective at reducing PTSD severity		Country the many
terms of readiness for change <sup>47</sup> .	compared with CBT for AUD plus supportive counselling <sup>53</sup> . Another		Couples therapy
Payabalagical therapies and as			The evidence from the Evidence Update
Psychological therapies and co- morbidities	study, a systematic review (12 studies, n=1721) examined a		supports the current recommendation relating to behavioural couples therapy for
A systematic review (including 8	combined CBT/motivational		harmful drinkers and people with mild
RCTs, n=831) evaluating	interviewing (MI) intervention to		alcohol dependence who have a regular
psychological interventions for alcohol	treat comorbid AUD and major		partner who is willing to participate in
misuse among people with co-	depression. The results indicated		treatment.
occurring depressive or anxiety	that compared with usual care,		
disorders was identified. The review	CBT/MI reduced alcohol		Motivational techniques
indicated that psychological	consumption and symptoms of		The evidence from the RCT in the

Conclusions of Evidence Update (2013)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4-year surveillance review (2015)
interventions, including motivational interviewing and CBT, were effective in	depression <sup>54</sup> .		Evidence Update and the 3 RCTs identified at the 4 year surveillance review
reducing alcohol consumption and	Motivational techniques		support NICE CG115 which recommends
depressive and/or anxiety symptoms <sup>48</sup> .	Three RCTs were identified which indicated that different types of		providing an intervention containing the key elements of motivational interviewing.
A RCT investigating an intervention to	motivational techniques		
reduce alcohol consumption in people	(motivational enhancement therapy		Telephone monitoring
admitted to hospital for alcohol-related	(MET), a brief motivational		The results of the study in the Evidence
acute pancreatitis (n = 120) was identified. The intervention consisted	intervention (BMI) plus telephone booster and telephone-based BMI)		Update suggest that although telephone monitoring and counselling produced the
of a 30-minute conversation covering	were effective in reducing alcohol		best alcohol use outcomes there were no
the toxic effects of alcohol on the	consumption and increasing		moderators that interacted significantly
pancreas, the need to change drinking	abstinence in people with alcohol		with treatment type. The evidence is
habits, and social problems faced by	problems <sup>55-57</sup> .		unlikely to have an effect on NICE CG115
participants. Overall, 15% of	·		as long-term case management is already
participants were readmitted in 2 years	Self-help based treatment		offered as an option throughout care and
including 8.5% in the intervention	A RCT investigating the use of a		aftercare. While telephone monitoring and
group and 21.3% in the control	smartphone application to support		counselling is not suggested in the
group <sup>49</sup> .	recovery (both during residential		guidance, CBT is recommended as an
	care and continuing care after discharge) compared to treatment		option for psychological intervention.  However, there is no recommendation
	as usual (none offered patients		over whether it should be delivered face-
	coordinated continuing care) in		to-face or by telephone.
	patients with alcohol dependence		to face of by tolophone.
	(n=349) was identified. The		Self-help based treatment
	smartphone application reduced		The RCTs identified at the 4 year
	risky drinking days at both 4 and 8		surveillance review relating to mobile
	months <sup>58</sup> . Whereas a RCT of an 8		phone and web-based applications for the
	week short message service		treatment of alcohol disorders provides a
	mobile phone based intervention in		limited and heterogeneous evidence base.
	detoxified alcohol-dependent		Further consistent evidence is needed
	patients (n=80) for relapse		before these new technologies can be

Conclusions of Evidence Update (2013)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4-year surveillance review (2015)
	prevention found that whilst the text messaging was feasible and acceptable it did not reduce alcohol consumption more than treatment as usual <sup>59</sup> .  A RCT in patients who completed an in-patient dual diagnosis treatment programme for depression and co-morbid alcohol use disorder (n=54) indicated that twice daily supportive text messages improved both depression related outcomes and alcohol abstinence compared to control <sup>60</sup> . A second report from this study indicated that patients perceived the intervention as		considered for inclusion within the guideline.  Psychological therapies and comorbidities Psychological interventions for co-morbid alcohol dependence and mental health problems, such as depression or anxiety, are out of scope of NICE CG115. However, the evidence from the Evidence Update and the 4 year surveillance review is consistent with NICE CG115 which recommends psychological programmes (motivational interviewing and cognitive behavioural interventions) for people with alcohol misuse or dependence.  The RCT identified in the Evidence
	motivational for recovery and in preventing relapse <sup>61</sup> . However, a further report on 6 month outcomes found that the beneficial effects of the supportive text message intervention were not sustained beyond the period that the patients were receiving the intervention <sup>62</sup> .  A further RCT in participants classed as heavy problem drinkers (n=189) investigated the use a cognitive behavioural Web-based application alone or in combination		Update investigating an intervention to reduce alcohol consumption in people admitted to hospital for alcohol-related acute pancreatitis is unlikely to impact on NICE CG115 which recommends interventions to promote abstinence or moderate drinking as appropriate and prevent relapse.  Brain stimulation The limited evidence (1 small study) identified at the 4 year surveillance review for repetitive transcranial direct current stimulation is unlikely to impact on current

Conclusions of Evidence Update (2013)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4-year surveillance review (2015)
	with in-person mutual help groups in comparison to mutual help groups heavy problem drinkers. At 3 months all groups increased their percentage of days abstinent, decreased their mean drinks per drinking day and decreased their alcohol/drug-related problems <sup>63</sup> .		guideline recommendations for the treatment of alcohol misuse. Further consistent evidence is needed to demonstrate effectiveness before it can considered for inclusion in CG115.
	Brain stimulation The results of a RCT indicated that repetitive transcranial direct current stimulation (tDCS) was more effective than control (sham-tDCS) in reducing the risk of relapse and improving quality of life in severe alcoholics in outpatient services (n=33) <sup>64</sup> .		
115-13: For children and young peop cost effective and does this depend of		ful alcohol use is treatment x who	en compared with <i>y</i> more clinically and
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided through the GDG questionnaire.	No relevant evidence identified.
Clinical Area 6: Pharmacological inte	rventions		
addition: (a) What are the impacts of severity a (b) When should pharmacological tre	and comorbities on outcomes? eatments be initiated and for what du	ration should they be prescribed	are more clinically and cost effective? In
A study evaluating the broader social	Related NICE guidance:	The GDG identified the following	No impact on recommendations.
outcomes and costs of combinations of pharmacotherapies and behavioural therapies (from the Combined Pharmacotherapies and Behavioural	Nalmefene for reducing alcohol consumption in people with alcohol dependence (TA325)	ongoing trials relating to Baclofen:  Efficacy and Safety of Baclofen for Maintenance of	Pharmacological interventions licensed for alcohol use - Acamprosate and Disulfiram

# Conclusions of Evidence Update (2013)

Intervention (COMBINE) RCT) over 3 years was identified. The study found at 3 years, the median costs of medical management plus combined therapies were significantly lower than the median cost for medical management plus placebo<sup>65</sup>.

#### **Antipsychotics**

A RCT comparing quetiapine with placebo in alcohol dependent patients (n=218) found no differences in drinking outcomes, alcohol craving and anxiety between the two groups. However, quetiapine did lead to greater improvements in depression and sleep quality compared to placebo<sup>66</sup>.

#### **Baclofen**

A RCT which compared baclofen (not licensed for this indication) with placebo for the treatment of alcohol dependence found no differences between groups (n=80) in terms of average rates of heavy drinking, the proportion of abstinent days, craving, depression or anxiety<sup>67</sup>.

#### **Anticonvulsants**

A RCT evaluating the tolerability and effectiveness of topiramate compared

# New evidence/intelligence identified during this 4-year surveillance review (2015)

#### Acamprosate

One RCT comparing oral acamprosate and placebo in the treatment of alcohol-dependent patients (n=100) in a family medicine setting was identified. The study revealed no differences in abstinence or heavy drinking between the two groups<sup>73</sup>. The results of a systematic review and meta-analysis also showed that there were no differences between acamprosate and naltrexone for controlling alcohol consumption in adults with alcohol use disorders<sup>74</sup>.

#### Disulfiram

A RCT found that disulfiram was superior to naltrexone for promoting abstinence in adolescents with alcohol dependence (n=52)<sup>75</sup>.

#### **Anticonvulsants**

A systematic review assessing the benefits of anticonvulsants for the treatment of alcohol dependence (25 studies, n=2641) was identified. Findings indicated that anticonvulsants had no clinical benefit over placebo and naltrexone in terms of rates of

## Clinical feedback from the GDG

Abstinence in Alcohol Dependent Patients (ALPADIR)

 Baclofen for the Treatment of Alcohol Drinkers (BACLOVILLE)

GDG feedback highlighted that a change in the guideline may be required to take account of TA325: nalmefene for reducing alcohol consumption in people with alcohol dependence within the recommended care pathway for the treatment of alcohol dependence within CG115. Currently nalmefene is not included in the pathway described in the guideline as a treatment option. As a result there is potential confusion about where nalmefene fits relative to other pharmacotherapies.

## Conclusion of this 4-year surveillance review (2015)

NICE CG115 recommends acamprosate or oral naltrexone in combination with an individual psychological intervention for people with moderate and severe alcohol dependence after a successful withdrawal from alcohol. Evidence identified at the 4 vear surveillance review indicates that acamprosate has no clinical benefit over placebo in terms of abstinence or heavy drinking. However, the evidence for acamprosate in the guideline was based on large, high quality studies, therefore it is unlikely that this new evidence will impact on the current recommendations in the guideline. The evidence from the systematic review identified through this surveillance is in line with CG115 which found little evidence to suggest a benefit of one drug over the other.

The limited evidence (1 small study) identified for disulfiram is unlikely to impact on NICE CG115 which recommends disulfiram as a second-line treatment option for moderate to severe alcohol dependence for people for whom acamprosate or naltrexone are not suitable, or who have specified a preference for disulfiram.

#### **Baclofen**

During development of NICE CG115,

Conclusions of Evidence Update (2013)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4-year surveillance review (2015)
with naltrexone in people (n=91) with	continuous abstinence. However,		limited evidence of the efficacy of baclofen
alcohol dependence was identified. At	there was some evidence showing		as a pharmacological intervention for
6 months, there were no significant	that anticonvulsants reduced		alcohol dependence was identified. The
differences between topiramate and	alcohol consumption compared to		new evidence identified through the
naltrexone in terms of abstinence,	placebo and naltrexone <sup>76</sup> .		Evidence Update and 4 year surveillance
percentage days abstinent, or total			review is heterogeneous. Furthermore,
drinking days. However, in the	Two systematic reviews and meta-		baclofen is currently not licensed for this
topiramate group there was	analyses and a RCT were		indication. The results from ongoing
significantly more moderate drinking	identified which found that		studies are expected to be published in
without problems, significantly fewer	topiramate is more effective than		early 2015, therefore it would be prudent
drinks per drinking day and	placebo in reducing alcohol		to wait for these studies to publish before
significantly fewer heavy drinking	consumption and increasing		assessing any need to update this section
days <sup>68</sup> .	abstinence in people with alcohol use disorders <sup>74,77,78</sup> . Whereas the		of the guideline.
SSRIs	results of a RCT examining the		Antipsychotics
Two RCTs (n=134) were identified	efficacy of topiramate for patients		The new evidence identified through the
which evaluated the effectiveness of	receiving a residential treatment		Evidence Update and 4 year surveillance
sertraline for the treatment of alcohol	programme of alcohol		review indicates that antipsychotics are
dependence (defined as either late-	detoxification and post-acute		not effective for improving alcohol related
onset or early-onset) alongside the	treatment (n=53) indicated that		outcomes in people with alcohol
moderating effects of a functional	there were no differences in		dependence. The evidence is therefore
polymorphism in the serotonin	outcomes between topiramate and		unlikely to impact on current guideline
transporter gene. The trials found at	placebo in terms of percentages of		recommendations.
the end of treatment and at 3 month	heavy drinking days and time to		
follow up that sertraline reduced	first day of heavy drinking <sup>79</sup> .		Anticonvulsants
alcohol consumption in the late-onset			The new evidence identified by the
group in those with the homozygous	A RCT comparing the		Evidence Update and 4 year surveillance
LL allele. In the early-onset group,	anticonvulsant levetiracetam with		review relating to the effectiveness of
greater reductions in drinking were	placebo in heavy drinking alcohol-		anticonvulsants for alcohol dependency is
observed with placebo, however this	dependent patients (n=130) found		heterogeneous. In addition, none of the
effect was no longer significant at 3	no differences in outcomes in		drugs are currently licensed for this
months. No significant treatment	terms of alcohol consumption <sup>80</sup> .		indication. It is therefore unlikely that the

Conclusions of Evidence Update (2013)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4-year surveillance review (2015)
effects were seen in those with the S allele <sup>69,70</sup> .	One RCT found that oral gabapentin increased rates of		new evidence will impact on current guideline recommendations.
Genetic polymorphisms – ondansetron A RCT which evaluated ondansetron plus standardised CBT was identified. Participants (n=283) were designated as having a LL, LS or SS genotype. The results indicated that individuals with the LL genotype who received ondansetron had reduced alcohol consumption and increased	abstinence and reduced alcohol consumption in adults with alcohol dependence (n=150). Improved outcomes were associated with increased dose <sup>81</sup> . <b>Antipsychotics</b> One RCT indicated that adding a brief-alcohol-intervention (BI) to paroxetine was not effective in		Benfotiamine The limited evidence (1 small study) available for benfotiamine is unlikely to impact on NICE CG115. Further consistent evidence is needed before it can be considered for inclusion in the guideline.  LY2196044 The evidence identified relating to
abstinence compared with those who received placebo and to other genotypes <sup>71</sup> .	reducing alcohol use in at-risk drinkers with a social anxiety disorder (n=83) <sup>82</sup> .		LY2196044 found no clinical benefit of the drug over placebo, therefore it is unlikely to impact on current recommendations.
Pharmacological interventions and co-morbidities A meta-analysis (including 11 RCTs), n=891) found that antidepressants were more effective than placebo in the treatment of depression in patients with comorbid alcohol use disorders <sup>72</sup> .	One RCT indicated that quetiapine was not effective at reducing alcohol consumption in outpatients with bipolar I or II disorders, depressed or mixed mood state, and current alcohol dependence (n=90) <sup>83</sup> .  A systematic review and meta-		Varenicline New evidence indicates that varenicline is more effective than placebo and a computerised behavioural intervention for the treatment of alcohol dependence. Varenicline is not currently licensed for this indication, therefore the evidence is unlikely to impact on current recommendations.
	analysis including patients with alcohol dependence (13 trials, n=1593) revealed that antipsychotics have no clinical benefit over placebo in terms of relapse prevention, alcohol		Nalmefene The NICE guidance on nalmefene for reducing alcohol consumption in people with alcohol dependence (TA325) currently recommends nalmefene as an

Conclusions of Evidence Update (2013)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4-year surveillance review (2015)
	Baclofen The results of a post-hoc analysis of a RCT showed that baclofen (not licensed for this indication) increased the rate of total alcohol abstinence compared with placebo in a subgroup of alcohol-dependent Hepatitis C virus-infected cirrhotic patients (n=24) <sup>85</sup> . Another RCT (n=42) examining the effectiveness of baclofen for the treatment of alcohol dependence was identified. The results indicated that baclofen has no benefit over placebo in terms of relapse prevention. However, post hoc analysis showed a beneficial effect of baclofen over placebo on time to lapse and relapse in alcohol-dependent individuals with comorbid anxiety disorder <sup>86</sup> .		option for reducing alcohol consumption, for people with alcohol dependence who have a high drinking risk level without physical withdrawal symptoms and who do not require immediate detoxification. The new evidence identified for nalmefene, including 3 studies which formed the evidence base for TA325, is unlikely to impact on the current guideline recommendations in CG115 which covers pharmacological interventions for people with moderate and severe alcohol dependence after a successful withdrawal from alcohol.  Clinical feedback indicated that an update of the guideline may be needed to take account of TA325 within the recommended care pathway for the treatment of alcohol dependence within CG115. However, TA325 is included as a treatment option within the NICE pathway on interventions for harmful drinking and mild alcohol dependence.
	Benfotiamine One RCT was identified which examined the effect of benfotiamine (high-potency		Combined Pharmacotherapies The study from the Evidence Update is from the USA and so the utilised costs
	thiamine; not licensed for this indication) on alcohol consumption in severely alcohol dependent adults (n=70). Over 6 months the		may not be directly relevant to the UK. However, the study demonstrates the reduction in social costs achieved through the use of alcohol treatment in alcohol

Conclusions of Evidence Update (2013)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4-year surveillance review (2015)
	trial demonstrated that benfotiamine was more effective than placebo in reducing alcohol consumption in women. However, no outcomes were reported in the abstract relating to male participants <sup>87</sup> .  LY2196044 A RCT comparing LY2196044 (an opioid receptor antagonist; not		dependent people and is consistent with NICE CG115.  Genetic polymorphisms – ondansetron These results are unlikely to have an impact on NICE CG115 as successful treatment with ondansetron was limited to participants with a specific allelic construction of the 5-HTT gene and this type of polymorphism-directed treatment is not part of UK practice at the present time.
	licensed for this indication) in combination with medical management with placebo in alcohol-dependent adults (n=375) found no differences in drinking outcomes between the two groups <sup>88</sup> .  Varenicline		SSRIs NICE CG115 recommends that antidepressants (including selective serotonin reuptake inhibitors [SSRIs]) should not be used routinely for the treatment of alcohol misuse alone. They are also currently not licensed for this indication. Whilst the Evidence Update
	One RCT (n = 200) comparing the efficacy of varenicline (not licensed for this indication) for the treatment of alcohol dependence found that it reduced alcohol consumption and craving compared to placebo and a computerised behavioural intervention <sup>89</sup> .		found some evidence of effectiveness for sertraline in individuals with the homozygous LL allele, the authors of the study stated that the small sample sizes and high rates of attrition mean these findings are preliminary and suggest that further research on larger groups is needed. At present this type of polymorphism-guided treatment for
	Nalmefene A systematic review and meta- analysis found that nalmefene		alcohol dependence is not part of UK practice so these findings are unlikely to have an impact on the current guideline

Conclusions of Evidence Update (2013)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4-year surveillance review (2015)
	improves alcohol consumption outcomes, in terms of the number of heavy drinking days per month and drinks per drinking day, in adults with alcohol use disorders <sup>74</sup> .  A number of reports from the ESENSE 1, ESENSE 2 and SENSE trials which formed the evidence base for TA325 were identified:  • A report from the SENSE trial: a RCT in patients with alcohol dependence (n=675) which compared 52 weeks of asneeded treatment with placebo or nalmefene indicated that at 13 months of nalmefene treatment was more effective than placebo, both in the reduction of the number of heavy drinking days and the reduction of total alcohol consumption. However, this effect was not apparent at 6 months <sup>90</sup> .  • A report from the ESENSE 1 24 week as-needed nalmefene versus placebo RCT in patients with alcohol dependence (n=718) and medium drinking risk indicated that nalmefene		Pharmacological interventions and comorbidities  The Evidence Update concluded that due to the limitations of the study relating to antidepressant use for the treatment of depression in patients with co-morbid alcohol use disorders, the evidence is unlikely to have an impact on NICE CG115. Furthermore, NICE CG115 recommends that for the treatment of comorbid mental health disorders refer to the relevant NICE guideline for the particular disorder.

Conclusions of Evidence Update (2013)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4-year surveillance review (2015)
	was effective in reducing heavy drinking days at 6 months but not in reducing total alcohol consumption 1. A report from the ESENSE2 trial, a RCT of 24 weeks of as-needed placebo or nalmefene in patients with alcohol dependence (n=604) and average alcohol consumption indicates that nalmefene was effective in reducing the number of heavy drinking days and total alcohol consumption at 6 months 12.  • A subgroup analysis in the population taken from both the ESENSE 1 and ESENSE 2 trials of patients (n=667) with at least a high drinking risk level (men: >60 g/day; women: >40 g/day) indicates that nalmefene is effective in reducing the number of heavy drinking days and total alcohol consumption at 6 months. Improvements in clinical status and liver		
	parameters were greater in the nalmefene group compared with the placebo group <sup>93</sup> .  • A cost-effectiveness analysis of nalmefene added to		

Conclusions of Evidence Update (2013)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4-year surveillance review (2015)
	psychosocial support for the reduction of alcohol consumption in alcohol-dependent patients with high/very high drinking risk levels was developed based on data from RCTs: ESENSE 1, ESENSE 2 and SENSE. The Markov model indicated nalmefene in combination with psychosocial support had an ICER of £5204 per QALY gained, and was therefore		
DD445 04. For which comics we are	cost-effective <sup>94</sup> .		
and cost effective intervention compa		endent on alconol is an assertive	community treatment model a clinically-
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided through the GDG questionnaire.	No relevant evidence identified.
RR115-02: What methods are most ef	fective for assessing and diagnosin	g the presence and severity of al	cohol misuse in children and young
people?  No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided through the GDG questionnaire.	No relevant evidence identified.
RR115-03: For people with moderate		o have significant comorbid prob	
rehabilitation programme clinically ar			
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided through the GDG questionnaire.	No relevant evidence identified.
RR115-04: Is contingency manageme	nt effective in reducing alcohol con-	sumption in people who misuse a	Icohol compared with standard care?
No relevant studies identified.	See evidence summarised under question 115-12.	No GDG feedback was provided through the GDG questionnaire.	No relevant evidence identified.
RR115-05: Is acupuncture effective in	reducing alcohol consumption con	npared with usual care?	
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided	No relevant evidence identified.

Conclusions of Evidence Update (2013)	New evidence/intelligence identified during this 4-year surveillance review (2015)	Clinical feedback from the GDG	Conclusion of this 4-year surveillance review (2015)	
		through the GDG questionnaire.		
RR115-06: For people with alcohol dependence which medication is most likely to improve concordance and thereby promote abstinence and prevent relapse?				
No relevant studies identified.	No relevant studies identified.	No GDG feedback was provided through the GDG questionnaire.	No relevant evidence identified.	

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