



STATE OF HAWAII
DEPARTMENT OF HUMAN SERVICES
Med-QUEST Division
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MEMORANDUM

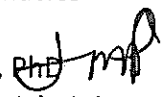
MEMO NOS.


QI-1721

FFS 17-10

[Replaces QI-1614,
FFS 16-04]

TO: Medicaid Fee-For-Service (FFS), QUEST Integration (QI) Health Plans,
Physicians and Pharmacies

FROM: Judy Mohr Peterson, PhD 
Med-QUEST Division Administrator

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Med-QUEST Division Medical Director

SUBJECT: DIRECT ACTING ANTIVIRAL (DAA) MEDICATIONS FOR TREATMENT OF CHRONIC
HEPATITIS C INFECTION

This memorandum serves as broad guidance for the treatment of chronic hepatitis C (HCV) infection. Treatment of chronic HCV infection is rapidly changing with several new DAA medications receiving Food and Drug Administration (FDA) approval within the past two years (Appendix A).

The QI health plans will cover DAA's for chronic HCV in patients who meet inclusion and exclusion criteria outlined below.

Treatment of chronic HCV with DAA medications may be covered when all of the following inclusion criteria are met (subject to limitations/exclusions):

- 1) Patient is of approved age as indicated by current FDA approvals.

DAA medications may be covered when all of the inclusion criteria specified previously are met (subject to limitations below). DAA medications may not be covered when any one of the following limitations/exclusions below is present:

- 1) Chronic decompensated liver disease as defined by Child-Pugh > 6, with exception for a patient who is an active candidate for liver transplantation (Appendix B).
- 2) Hepatocellular carcinoma, with exception for a patient who is an active candidate for liver transplantation.

Other considerations:

- 1) Avoid concurrent use of medications or supplements that are FDA contraindicated.
- 2) Patients who have co-infection with HCV/HBV should have HBV well controlled prior to starting treatment.
- 3) Patients who have co-infection with HCV/HIV will require close follow up with an HIV or infectious disease specialist.
- 4) In patients who have a history of solid organ transplantation, treatment with DAA should be done in consultation with transplant center.
- 5) Other life threatening medical conditions, such as metastatic cancer, should be treated and controlled prior to starting DAA therapy for chronic HCV.

Please contact Dr. Curtis Toma, Medical Director, at (808) 692-8106 or via e-mail at ctoma@dhs.hawaii.gov should you have any questions.

Appendix A:
Food and Drug Administration Approved Direct Acting Antiviral Treatments for Chronic Hepatitis C Virus Infection

Table 1: FDA Approved DAA for the Treatment of Chronic Hepatitis C

Medication	FDA Approval Date
teleprevir (Incivek)	May 2011
boceprevir (Victrelis)	May 2011
simeprevir (Olysio)	November 2013
sofosbuvir (Sovaldi)	December 2013
sofosbuvir / ledipasvir (Harvoni)	October 2014
simeprevir / sofosbuvir (Olysio/Sovaldi)	November 2014
ombitasvir / paritaprevir / ritonavir with dasabuvir (Viekira Pak)	December 2014
daclatasvir (Daklinza)	July 2015
ombitasvir / paritaprevir (Technivie)	July 2015
elbasvir / grazoprevir (Zepatier)	January 2016
sofosbuvir / velpatasvir (Epclusa)	June 2016
sofosbuvir / velpatasvir / voxilaprevir (Vosevi)	July 2017
glecaprevir / pibrentasvir (Mavyret)	August 2017

Appendix B: Child-Pugh Score

The Child-Pugh Score, also known as Child-Turcotte-Pugh (CTP) score, is a scoring system for severity of liver disease and likelihood of survival based on the presence of degenerative disease of the brain (encephalopathy), the escape or accumulation of fluid in the abdominal cavity (ascites), laboratory measures of various substances in the blood (see table below), and the presence of other co-existing diseases; after calculating the CTP score using a table similar to the one below, individuals can be classified into one of three categories:

- Childs A (5-6 points): 10 year survival 80-90%;
- Childs B (7-9 points): 5 year survival 60-80%; and
- Childs C (10-15 points): 2 year survival less than 50%.

Table 2: Child-Pugh Score

Variable	1 Point	2 Points	3 Points
Encephalopathy	None	Moderate	Severe
Ascites	None	Mild	Moderate
Albumin (mg/dL)	Greater than 3.5	2.8 – 3.5	Less than 2.8
Prothrombin time (International Normalized ratio) prolonged	Less than 4	4 – 6	Greater than 6
Bilirubin (mg/dL) Primary biliary cirrhosis Cirrhosis/primary Primary sclerosing cholangitis	1 – 4	4 – 10	Greater than 10
All other diseases	Less than 2	1 – 3	Greater than 3

Compensated liver disease: Child-Pugh score less than or equal to 6 (class A) in cirrhotic individuals before or during treatment.

Decompensated liver disease: Child-Pugh score greater than 6 (class B or class C) in cirrhotic individuals before or during treatment.

References:

- 1) American Association for The Study of Liver Disease Treatment (AASLD): Recommendations for Testing, Managing, and Treating Hepatitis C, updated on September 21, 2017. www.hcvguidelines.org
- 2) Afdhal N, Reddy R, Nelson D, Lawitz E, Gordon S, Schiff E, et al. Ledipasvir and Sofosbuvir for previously treated HCV Genotype 1 Infection (ION2). *N Engl J Med* 2014; 370: 1483-93.
- 3) Afdhal N, Zeuzem S, Kwo P, Chojkier M, Gitlin N, Puoti M, et al. Ledipasvir and Sofosbuvir for Untreated HCV Genotype 1 infection (ION1). *N Engl J Med* 2014; 370:1889-98.
- 4) Department of Veterans Affairs National Hepatitis C Resource Center Program and the Office of Public Health (VA): Chronic Hepatitis C Virus Infection: Treatment Considerations, updated March 8, 2017. www.hepatitis.va.gov/pdf/treatment-considerations-2017-03-08.pdf
- 5) Food and Drug Administration. www.FDA.gov
- 6) Kowdley K, Gordon S, Reddy R, Rossaro L, Bernstein D, Lawitz E, et al. Ledipasvir and Sofosbuvir for 8 or 12 Weeks for Chronic HCV without Cirrhosis (ION3). *N Engl J Med* 2014; 370: 1879-88
- 7) Center for Disease Control, A Guide to Comprehensive Hepatitis C Counseling and Treatment, updated October 15, 2015. Accessed on August 24, 2016. <http://www.cdc.gov/hepatitis/resources/professionals/pdfs/counselingandtestingpc.pdf>