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Index: Benefits

TO: ALL COUNTY CALIFORNIA CHILDREN SERVICES (CCS) PROGRAM ADMINISTRATORS, MEDICAL CONSULTANTS, STATE SYSTEMS OF CARE DIVISION STAFF AND GENETICALLY HANDICAPPED PERSONS PROGRAM (GHPP)

SUBJECT: IVACAFTOR (KALYDECO™)-EXPANDED INDICATION FOR USE - REVISED

I. PURPOSE

The purpose of this updated Numbered Letter (N.L.) is to modify the CCS Program and GHPP policy regarding the authorization of ivacaftor, as a treatment for cystic fibrosis (CF) due to gating mutations in the cystic fibrosis transmembrane conductance regulator (CFTR) genes. Ivacaftor is the first of a new class of drugs known as CFTR potentiators, and has been associated with significant clinical improvement in individuals that have a CFTR gating mutation in at least one allele. Gating mutations include G551D, G1244E, G1349D, G178R, G551S, S1251N, S1255P, S549N, and S549R.

II. BACKGROUND

Cystic fibrosis is a life-threatening autosomal recessive genetic disease affecting respiratory and digestive systems. In California, CF is found in all race/ethnic groups at a prevalence of around 1/3500 in non-Hispanic whites, 1/7900 in Hispanic whites, 1/8000 in non-Hispanic blacks, and 1/23,500 in Asians and others. CF is caused by a defective gene for the CFTR. A defective CFTR results in decreased secretion of chloride and increased reabsorption of sodium and water across epithelial cells. This leads to viscous (sticky) secretions, which are harder to clear and increase susceptibility to life-threatening pulmonary infections. In addition, the viscous secretions obstruct the process of digestion, leading to malabsorption of food.
Standard therapies for CF target amelioration of symptoms and prevention of infection. Ivacaftor, on the other hand, targets the pathology of the disease. In individuals with one of the CFTR gating mutations listed above (2-5 percent of those with CF), ivacaftor binds to the defective receptor, and facilitates passage of chloride ions across the defective CFTR, normalizing the secretions. Ivacaftor efficacy for the G551D mutation over a 48-week period was demonstrated in a Phase III trial of individuals 12 years and older, in which there were 55 percent fewer exacerbations, pulmonary lung function scores (FEV1) improvement by an average of 10 percent, and better quality of life. Additional trials extending this study to 60 weeks, and with children ages 6-11, found sustained improvement in lung function. On January 31, 2012, Food and Drug Administration (FDA) approved ivacaftor for use in persons age six and over with CF who have the G551D mutation. The recommended dose is 150mg every 12 hours for adult and pediatric (six years and older) patients.

In February 2014, ivacaftor was approved by the FDA for expanded use for G1244E, G1349D, G178R, G551S, S1251N, S1255P, S549N, or S549R mutations (occurring in less than 1 percent of CF patients), based on an 8-week Phase III clinical trial showing improvement in lung function as determined by the mean absolute change from baseline FEV1.

III. POLICY

Effective the date of this letter, ivacaftor is a CCS/GHPP benefit when:

A. Prescribed by a CCS/GHPP approved pulmonology special care center physician, and;

B. For a CCS/GHPP client with CF and a CFTR gating mutation in at least one allele (Gating mutations include G1244E, G1349D, G178R, G551D, G551S, S1251N, S1255P, S549N, and S549R.), whose care is under the supervision and monitoring of a CCS/GHPP approved Cystic Fibrosis and Pulmonology Center, and;

C. Request is submitted with documentation of pulmonary function testing weight gain, nutritional status or growth; and/or symptom record.

IV. POLICY IMPLEMENTATION

A. Ivacaftor (Kalydeco™) requires separate authorization.

B. All requests shall be reviewed by a CCS Program County Medical Director or designee before authorization of ivacaftor.
C. Initial Authorization:

1. Shall be for a 6-month trial.

2. Prior to authorization, documentation must be submitted showing positive genetic test for G551D, G1244E, G1349D, G178R, G551S, S1251N, S1255P, S549N, or S549R in the CFTR gene, using a testing method that can detect the mutation.

3. SCC Center to titrate dosage to age of client when less than 5 years of age.

D. Extension of the initial authorization shall be granted when:

1. Documentation is submitted by the CCS/GHPP approved pulmonary special care center:
   a. FEV1.
   b. Reduction in sweat chloride from baseline.
   c. Symptom Record.
   d. Weight gain nutritional status.

2. For a six-month period or until program eligibility end date, whichever is shorter.

E. The following shall be considered when reviewing requests for ivacaftor:

1. Ivacaftor is not effective in individuals with two copies of the F508del CFTR mutation (i.e., F508del/F508del).

2. Ivacaftor is not a replacement for conventional adjunctive therapy.

3. At this time, the manufacturer recommends not crushing or splitting the tablets. The tablets should be swallowed whole.

F. Exceptions will be reviewed on a case-by-case basis by State Systems of Care Division (SCD) Medical Director or designee.
If you have any questions regarding this N.L., please contact Marcia Ehinger, M.D. via e-mail at marcia.ehinger@dhcs.ca.gov or Jill Abramson, M.D., Chief, Medical Policy & Consultation Section, via e-mail at jill.abramson@dhcs.ca.gov.

Sincerely,

ORIGINAL SIGNED BY PATRICIA MCCLELLAND

Patricia McClelland, Chief
Systems of Care Division