iternational measures: None

ENTERITIS, ACUTE VIRAL

nough to produce dehydration requiring hospitalization, ultivable enteric viruses (Norwalk agent and Norwalk-like t primarily older children and adults and cause self-limited roenteritis or outbreaks in families, institutions and commucepidemiology, natural history and clinical expression of infections are best understood for group A rotavirus in roenteritis presents as a sporadic or epidemic illness in ren and adults. Several enteropathogenic viruses (rotaviruses amonly, enteric adenoviruses, caliciviruses and astroviruses) infants and young children as a diarrheal illness which may forwalk agent in adults.

IRAL ENTERITIS

ICD-9 008.8

al gastroenteritis, Severe viral gastroenteritis of infants Non-bacterial gastroenteritis of infancy)

eath in equently. Rotavirus infection has occasionally been found in ents with a variety offclinical manifestations, but the virus is cidental rather than causative in these conditions. Rotavirus see of nosocomial diarrhea of newborns and infants. In any illness caused by rotavirus is not distinguishable from that er enteric viruses, although rotavirus diarrhea may be more more frequently associated with fever and vomiting than is ā. cation—A sporadic or seasonal, often severe gastroenteritis duc watery diarrhea occasionally young contacts are the young age group. Secondary symptomatic cases other agents. children characterized by fever infrequent, although subclinical infecand vomiting,

ologic techniques for which commercial kits are available, otavirus infection can be demonstrated his action. identified in stool or rectal swab by demonstrated by serologic tech-

GASTROENTERITIS.

antigen in stools.)nd diagnosis is usually based on the demonst ration of rotavirus

- caused humans; groups B, C surface protein, the major neutralization antigentein, designated VP4, is associated with virulence group Infectious neutralization. large Group > human agentidemics <u>ي</u> rotavirus, common, and D -The 2 occur in animals. adults based 70-nm group 5 9 rotavirus belongs B China,

 '. There 2 antigenic antigen. uncommon while differences and Another major serotypes nces in the VP7 infants the Reoviridae er surface pro-plays a role in ັອ the but has 2.
- illness STITA gens. frequently diarrheal deaths infected is associated with first Occurrence month of infants and young associated with veloping 5. their each life -In both countries, it is responsible about one-third first 3 year. 20 severe diarrhea children less associated developed years 9 less than 5 years of life, with diarrhea than and than most for other, enteric patho-n estimated 870,000 first ಲ್ಲ Rotavirus cases of diarrheal infections children 2 rotavimore after

are.

the

travelers' diarrh AIDS) patients, nounced 27.0 months; outbreaks of clinical disease elderly usually asyl temperate patients, among parents of children with rotavirus diarrhea, in the and among children in day-care serrings 5 tropical climates, asymptomatic. Neonatal climates, jui occur Infection ections are occurs throughout 5 geriatric units. almost 오 trequent adults the exclusi Rotavirus has vely and usually with less settings THE subclinical; caused cooler probut

- man has not 4. rotaviruses which may Reservoirbeen found when searched for, except for -Probably Ç, man. primarily The pathogenicity animal rotavi iruses. or group B and group of animal viruses io
- respiratory respiratory. Mode tract, they may ಲ್ಲ Although transmission rocaviruses þ swallowed with .Probably О not fecal-oral effectiv respi icatory ory secretions. possibly fecal-in the
- Incubation period-Approximately 24 to 7 2 hours

6

- after later tor days has been reported for an average of 4-6 d \sim while Period of about the virus eighth day communicabilityshedding days. 5 of illness immunocompromised continues. . Rotavirus is not usually detectable alchough excretion of virus for ≥ 30 During acute patients. Symptoms last stage of disease, and
- rotavirus antibody. prolonged rotavirus œ Susceptibility 24 months Immunocompromised infants of age. diarrhea. and res. Ву age Susceptibili mos individuals are at particular risk for Ş $\overline{\mathbf{x}}$ greatest berween

Methods control-

P_{re}

こ Undetermined. Hygienic

transmitted via fecaloral measures applicable route may not be

Prevent exposure acute ဝ္ဂ hospital) settings. gastroenteritis infants and young child children

 \mathcal{S}

tered been shown to protect low-birth-weighteeding does not affect infection rates, efficacy vaccine. immunization 9 She of attenuated gastroenteritis. Studies y oral rotavirus administration -weight Ľ but may 5 E C neonate orally under admin Bir

Con rol of patient, contacts and the immediate

5 ۳ epidemics; no ind Isolation: Enteric ö local no individual health precautions, with case report authority: frequent Obligatory Class 4 (see Prefac

by caretakers disinfection: 9 infants. Sanitary disposal

of diapers,

2420 mmunization of contacts:

Investigation of contacts of infection should be sought, especially in the and None. source e of infection: Source and cially in the home a

collapse glucose-electrolyte Parenteral treatment: None. ဝ္ uncontrolled vomiting fluids 250 solution Oral rehydration needed in cases (see adequate Cholera, therapy with in mo

Epidemic measures: epidemiologic Search for bases. vehicles 9 transm nission and

Ü

Ď implications: > potential problem.

International Preface). measures: ₩H0 Collaborating C ntres (see

EPIDEMIC VIRAL TROENTEROP

CD-9

078.8

type disease, Acute diarrhea, Epidemic nausea and gastroenteritis Epidemic diarrhea infectious ₹ vomiting) adults, HY
s, Epidemic viral gastroenteritis, Norwang and Norwalk

Identification Usually bs self-limited, mild õ moder ate discase

er, or a combination of these infacteristically last 24-48 hours. coften occurs in outbreaks, with clinical symptoms these symptoms. myalgia, headache, Gastrointestinal symptoms nausea, vomit-

bserved by IEM with disease etiology. physiescent the virus may be identified in stools of ill individuals by IEM or, for the orwalk virus, also by RIA. Serologic evidence of infection may be monstrated by IEM or, for the Norwalk virus, by RIA. Diagnosis quires collection of a large volume of stool, with aliquots stored at 4°C ğ EM, Me, and at sera (3-4 v week -20°C interval) (-4°F) for 376 antigen essential to liv s. Acute link part particles

20-35-nm caliciviruses, the 33-39-nm Sapporo agent, parvoviruses and coronaviruses. With the wed with gastroenteritis outbreaks. These include Cockle, Parramatta, Snow Mountain agent. gent ine-third of pne-third of the nonbacterial gastroenteritis outbreaks. (he morphologically similar, but antigenically distinct, he ruses (types 40, 41 igent, parvoviruses and coronaviruses. With the exception of the enteric idenoviruses, some astroviruses and caliciviruses, the sole of these agents is a cause of severe diarrhea of infants and young children is unclear. Infectious agentsckle, Parramatta, Snow Mount (an astrovirus). Outbreaks have been in and probably 31), implicated as insplicated as Mountain agents and , several types of a Sapporo agent, the s been associated with adenovidistinct, have clude Hawaii, Norwalk virus, an arypi-tiologic agent in about the Marin County Other agents that astroviruses and e similar Otofuke agent astroviruses been associ-Ditchling or

chis but antibodies to Norwalk agent were acquired slot-life, >60% of the population countries studied, antibodies are acquired much earlier. Seroresponse to Norwalk virus was detected in infants and young children in Bangladesh; this agent was associated with 1-2% of diarrhea episodes. agent and common; most antibodies. slowly; by the ibodies. In mo 5 **67** study often most fifth decade in out...
in the USA,

Reservoir-Man is the only known reservoir.

4.

gested principally, although airborne outbreaks have strongly suggested primary community toodborne and waterborne transmission, with secondary transmission to family members. Mode õ explain the rapid spread of transmissionsuggested primary transmission Unknown; hospital settings. probably from fomites рy fecal-oral route foodborne Several recent has been sug-

6. Incubation with Norwalk age agent, the range was period-Twenty-four to 10-50 hours. 48 hours; in volunteer studies

õ Period of communicability hours after Morwalk diarrhea During acute stage of disease and up

low-grade