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# POPULARIZATION OF RUBELLA DISEASE AND ITS LOCAL PREVENTION.

**Valijanova Muattar**
NAMANGAN BRANCH OF TASHKENT
KIMYO INTERNATIONAL UNIVERSITY
Department of "medical fundamental sciences" Teacher

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**Abstract:**

Rubella, also known as German measles, is a contagious viral infection that primarily affects children and young adults. While mild in most cases, rubella can have severe consequences for pregnant women, leading to congenital rubella syndrome (CRS) in newborns. This article discusses the importance of raising awareness about rubella, analyzing its epidemiology, symptoms, transmission, and local prevention strategies. Emphasis is placed on vaccination campaigns, community health education, and policy measures to curb the spread of rubella.

**Keywords:** Rubella, viral infection, congenital rubella syndrome, vaccination, prevention, public health

Rubella is a highly infectious disease caused by the rubella virus, part of the Togaviridae family. The disease manifests through mild fever, rash, and swollen lymph nodes. Although rubella symptoms are generally mild, its potential complications for pregnant women make it a significant public health concern. Despite the availability of an effective vaccine, cases still emerge due to gaps in immunization programs. This article explores rubella's prevalence, risk factors, and local prevention measures to mitigate its impact.

Rubella (German measles) is a contagious viral disease that can cause mild symptoms in children and adults but poses serious risks to pregnant women and their unborn children. Popularizing information about rubella and promoting local prevention strategies is crucial for public health.

Popularization of Rubella Disease

Popularizing rubella involves raising awareness about its transmission, symptoms, complications, and prevention methods through public health campaigns, educational programs, and media outreach. Key aspects include:

Understanding Rubella

- Cause: Rubella is caused by the rubella virus, which spreads through respiratory droplets when an infected person coughs or sneezes.
- Symptoms: Mild fever, pinkish rash, swollen lymph nodes, joint pain, and mild conjunctivitis. Symptoms are often mild or unnoticed in some cases.
- Complications: While generally mild in children and adults, rubella can cause Congenital Rubella Syndrome (CRS) in newborns if a mother contracts the virus during pregnancy. CRS can lead to birth defects such as deafness, cataracts, heart abnormalities, and developmental delays.

Transmission and Risk Factors

- Highly contagious, especially in unvaccinated populations.
- Spreads through close contact in crowded places, schools, workplaces, and public gatherings.
- Pregnant women in their first trimester are at the highest risk.

Public Awareness Campaigns

- Use social media, TV, and radio to spread information.
- Distribute pamphlets, posters, and online infographics explaining rubella and its prevention.
- Conduct community health seminars to educate people about the dangers of rubella.

Local Prevention Strategies

1. Vaccination Programs

- Measles-Mumps-Rubella (MMR) Vaccine: The most effective prevention method.
- Routine Immunization: Ensure all children receive the MMR vaccine at 9-12 months and a booster at 4-6 years.
- Catch-up Vaccination: Target unvaccinated teenagers and adults, especially women of childbearing age.
- Mandatory Vaccination Policies: Implement vaccination requirements in schools and workplaces.

Surveillance and Early Detection

- Establish rubella surveillance systems to track outbreaks.
- Encourage early diagnosis and isolation of infected individuals.
- Train healthcare workers to identify and manage rubella cases.

Prenatal Care and Screening

- Offer rubella immunity tests for women before or during early pregnancy.
- Provide vaccination for non-immune women before pregnancy.

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- Educate pregnant women on avoiding exposure to rubella.

Community Involvement and Policy Making

- Engage local governments and NGOs to promote rubella prevention.
- Develop public health policies supporting mass vaccination campaigns.
- Encourage schools and workplaces to conduct rubella awareness programs.

Hygiene and Public Health Measures

- Promote handwashing, respiratory hygiene, and avoiding close contact with infected individuals.
- Encourage proper ventilation in public spaces to reduce airborne transmission.

Popularizing rubella disease through public health education and ensuring local prevention measures like vaccination, surveillance, prenatal screening, and hygiene can significantly reduce its spread. Governments, healthcare institutions, and communities must collaborate to ensure universal immunization and awareness to eliminate rubella and protect vulnerable populations, especially pregnant women and newborns.

Despite medical advancements and vaccine availability, rubella continues to pose a challenge in areas with inadequate immunization coverage. Public health strategies must focus on dispelling myths about vaccines and ensuring accessible healthcare services. Strengthening local healthcare infrastructure and integrating rubella awareness programs into school curricula can further enhance disease control efforts. Moreover, policymakers must enforce mandatory rubella vaccination policies to achieve herd immunity.

## CONCLUSIONS

Rubella prevention requires a multi-faceted approach, combining vaccination programs, community engagement, and healthcare policy improvements. To enhance local prevention efforts, the following recommendations are made:

- Strengthen nationwide rubella vaccination campaigns and ensure vaccine availability.
- Conduct targeted public awareness programs to combat vaccine hesitancy.
- Integrate rubella screening and prenatal care to protect pregnant women and newborns.
- Encourage collaborations between governmental and non-governmental organizations for better resource allocation.

By implementing these measures, rubella cases can be significantly reduced, ultimately leading to the elimination of congenital rubella syndrome and better public health outcomes.

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