Measles – 2017

Ambulatory Care Triage Staff Information

Updated 4/11/2017
Agenda

Measles Virus Information

Keys for Triage
- Disease course
- Symptoms
- Rash

Recent Disease Developments

Vaccine

Minnesota Status
Measles - Background

Rubeola

- “English,” “Hard,” “Red,” “7-day” measles

Rubella

- “German,” “3-day” measles
- Different Order

Closely Related to

- Parainfluenza, Mumps (same subfamily)
- RSV (same family)

Attaches easily to respiratory tract surfaces

Infection spreads beyond respiratory tract

- Parainfluenza and RSV do not invade further
Triage Considerations

History of Illness

- Early illness lasts several days and looks like other viral infections

**FEVER** (usually high)

Develop *the 3 C’s*

- **CONJUNCTIVITIS**
  (watery, typically non-purulent)
- **CORYZA** (rhinitis)
- **COUGH** (non-specific, “croupy”)

**RASH**

- May last a week or more
Measles Rash

Starts at hairline and spreads across face to trunk
  – Like “a bucket of virus poured over the head”

Lasts 4-6 days or more

Clears in same order

Patient is most contagious
  – 4 days before rash appears
  – 4 days after rash appears
Rash
Measles Clinical Symptoms

- **Exposure**: 8 – 14 days (max 21)
- **Incubation period**: 2 – 4 days
- **Infectious Period**: 4-7 days
- **Prodrome**: Fever, Cough, Coryza, Conjunctivitis
- **Koplic Spots**: Koplic “Bucket of Measles”
- **Maculopapular rash**: Head → limbs
- **Resolution or Complications**

4 days before, 4 days after rash onset
If a Patient Calls

Get Information

− Symptoms
− Contact with known measles cases
− Travel history

Schedule to minimize potential exposure

− Towards end of day (exam rooms will be shut down for 70 min)

Can family call upon arrival?

− Mask prior to entering clinic
  • Staff meet family at door with mask
− Blanket over Baby
− Quickly escort into room
Measles Patient In Clinic

Virus is Airborne
  – Spreads through the air on tiny droplets

Highly Infectious
  – 90% of susceptible exposed will develop measles

Highly Contagious
  – Spreads easily
  – Exposure can occur 2 hours after patient left room

Mask Stays On
  – Blanket over Infant’s head / car carrier

Door Stays Closed

Immunization

MMR Vaccine ≥ 97% effective
- With 2 doses (≥ 93% with 1)

Herd Immunity protects
- Infants < 12 months of age
- Immunocompromized
- ≤ 3% vaccine “non-responders”

Health Care Workers
- Protected by vaccination
- Use N95 respirator masks or PAPRs
- If staff not fit tested, patient AND staff wear ear loop masks
Minnesota

Current outbreak

Currently admitted to Children’s

– 1 confirmed case of measles and
– 1 highly suspect case
– Attend same day care center in Hennepin County

No change in immunization schedule recommendations

– CDC, MDH, or Children’s

Children’s IPC working to notify exposed patients and families
Questions

Urgent Issue and Questions
  – Call IP On-Call Pager
    • 651-629-4444

Non-urgent
  – Joe Kurland
    • 651-261-5935 (cell)
    • 651-629-2071 (pager)