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# A Newsletter on **CLINICAL PHARMA PRACTICE**

An Update on Clinical Research and Drug Information



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## PHARMACIST DESK

### MONKEY POX VIRUS

### SIGNS AND SYMPTOMS :

### INTRODUCTION :

Monkey pox is a viral zoonosis (a virus transmitted to humans from animals) with symptoms similar to those seen in the past in smallpox patients, although it is clinically less severe.

The incubation period of monkey pox is usually from 6 to 13 days but can range from 5 to 21 days.

The infection can be divided into two periods :

1. **The invasion period** (Lasts between 0-5 days) characterized by

- Fever
- Intense headache
- Lymphadenopathy (lymphadenopathy is a distinctive feature of monkey pox compared to other diseases that may initially appear similar like chicken pox, measles & Small Pox.
- Myalgia
- Intense asthenia & back pain.

2. **The skin eruption** usually begins (within 1 – 3 days) of appearance of fever. The rash tends to be more concentrated on the face and Extremities rather than on the trunk. It affects, face, palms of the hands and soles of the feet, oral mucous membrane, genitalia, conjunctivae as well as the cornea.

### PATHOGEN :

Monkey pox virus is an enveloped double -stranded DNA virus that belongs to the Orthopoxvirus genus of the Poxviridae family. There are two distinct genetic clades of the monkey pox virus :

- The Central African (Congo Basin) clade
- The West African clade.



### INVESTIGATION :

Polymerase chain reaction (PCR)

### TRANSMISSION :

- Animal - to - human (Zoonotic) transmission
- Human - to - human transmission
- Placenta from mother to fetus

### THERAPEUTIC INTERVENTION :

- Patients should be offered fluids and food to maintain adequate nutritional status.
- An antiviral agent known as **Tecovirimat** that was developed for smallpox was licensed by the European Medicines Agency (EMA) for monkey pox in 2022.

## VACCINATION

A vaccine based on a modified attenuated vaccinia virus (Ankara Strain) was approved for the prevention of monkey pox in 2019. This is a two - dose vaccine for which availability remains limited.

## PREVENTION

- ★ Raising awareness of risk factors and educating people about the measures they can take to reduce exposure to the virus is the main prevention strategy for monkey pox.
- ★ Scientific studies are now underway to assess the feasibility and appropriateness of vaccination for the prevention and control of monkey pox.
- ★ Some countries have, or are developing, policies to offer vaccine to persons who may be at risk such as laboratory personnel, rapid response teams and health workers.

**NEESHA SOLANKY K, V-PHARM D**

Ref:<https://WWW.Who.int/news-room/fact-sheets/detail/monkeypox>  
**WORLD HEALTH ORGANISATION** Accessed. August 1,2022.

## **CASE DISCUSSION ON HODGKIN'S LYMPHOMA**

A 22 years old female patient was admitted to the hospital with chief complaints of left side neck swelling for past 8 months but with no significant pain. On physical examination, the patient was conscious, oriented and afebrile. The laboratory investigation shows that WBC was found to be elevated. Histopathology examination reveals that the lymph node tissue shows extensive nodular architecture imported by thick sclerotic bands. The nodules shows that numerous smudged mononuclear protein like Reed Sternberg cells.

These are scattered amidst a population of small round mature lymphocytes, plasma cells and eosinophils. The Reed Sternberg cells express CD15, CD3 and PAX5. The cells are immunonegative for CD3, CD45, CD20 and EBV LMP. On imaging study PET-CT shows an intensely hypermetabolic left cervical, left SCCLN, left axillary and right paratracheal lymph node consistent lymphomatous involvement. The patient was diagnosed to have Hodgkin's lymphoma.

**TREATMENT :** She was treated with chemotherapy which includes 7 cycles of Adriamycin 40mg, Bleomycin 15U, Inj. Vinblastine 10mg, Inj. Dacarbazine 550mg, Inj. Pantocid in IV with premedication Emeset 1 amp and Decadron 8mg NS in 500ml.

**CONCLUSION :** Mostly Hodgkin's lymphoma patients have the most common regimen i.e., ABVD (Adriamycin, Bleomycin, Vinblastine and Dacarbazine). It is more effective and least toxic chemotherapy regimen. These drugs can give a better clinical outcome for Hodgkin's lymphoma, so that the patient's condition can be improved.

**Dr. R. SURESH KUMAR., MD,(Radiation Oncology), V. MADHUMITHA, V-PHARM D**

## **CHOICE OF DRUGS IN PREGNANCY**

| <b>DRUG CLASS</b> | <b>UNSAFE DRUGS</b>           | <b>SAFER ALTERNATIVE</b>       |
|-------------------|-------------------------------|--------------------------------|
| Antihistamines    | Pseudoephedrine               | Chlorpheniramine.              |
| Antidepressants   | Citalopram                    | Amitriptyline.                 |
| Anticoagulants    | Warfarin                      | Heparin (unfractionated, LMW). |
| Antiretroviral    | Didanosine                    | Zidovudine.                    |
| Corticosteroids   | Dexamethasone (prolonged use) | Prednisolone oral (low dose).  |
| Anthelmintic      | Albendazole                   | Piperazine.                    |
| Antidiarrhoeals   | Loperamide                    | Oral rehydration solution.     |
| Antiasthmatic     | Theophylline                  | Salbutamol / Salmeterol.       |

**REDLINJANI .R.R - V PHARM D**

### DRUG SAFETY ALERTS IDENTIFIED AND ISSUED BY PVPI

| S.NO | ISSUING DATE | SUSPECTED DRUGS | INDICATION(S)   | ADVERSE DRUG REACTION   |
|------|--------------|-----------------|---|---|
| 1.   | 15 July 2022 | Tacrolimus      | It is used to treat prophylaxis of transplant rejection in adult kidney                               | Gingival Hypertrophy  |
| 2.   | 17 June 2022 | Trimetazidine   | It is used to treat ischaemic heart disease, angina pectoris, sequelae of infarction.                 | Drug Reaction with Eosinophilia and Systemic Symptom (DRESS)              |
| 3.   | 30 May 2022  | Itraconazole    | It is used to treat Empiric therapy of febrile Neutropenic patients with suspected fungal infections. | Symmetrical Drug Related – Intertriginous and Flexural Exanthema (SDRIFE) |

### VIVEKANANDHA MEDICAL CARE HOSPITAL - ADR MONITORING CENTRE

### RECENTLY APPROVED DRUGS BY FDA

| S.NO | DRUG NAME                     | INDICATIONS  | APPROVED DATE |
|------|-------------------------------|--|---------------|
| 1.   | Ibrance (Palbociclib)         | Combination with letrozole has initial endocrine based therapy for the treatment of Human Epidermal Growth Factor receptor type 2 (HER 2) negative and HR positive tumors in adult patients with metastatic breast cancer. | 07/07/2022    |
| 2.   | Levemir (Insulin detemir)     | To improve glycemic control in adults and children with Diabetes Mellitus  | 01/07/2022    |
| 3.   | Amvuttra (Vutrisiran)         | Polyneuropathy of hereditary transthyretin-mediated (hATTR). Amyloidosis in adults.  | 13/06/2022    |
| 4.   | Priorix (MMR)                 | Prevention of measles, prevention of rubella and prevention of mumps.  | 06/06/2022    |
| 5.   | Fylnetra (Pegfilgrastim-pbbk) | Reduce the incidence of neutropenia in patient undergoing chemotherapy.  | 25/05/2022    |

**RAMYA.A, V PHARM.D**

### DEPARTMENT ACTIVITIES

#### PUBLICATIONS

1. Shangavi V, Sharmaila Nirojini P, Nithyakala P, Nithya R, Malarvizhi P, Vaishnavi Devi C. Re-emerging Antibiotic - A Systemic Review on Colistin. Indian Journal of Pharmacy Practice. 2022 ;15(3):162-166.
4. Vaishnavi Devi.C, Sandhiya V, Shanmathi M. Tranexamic acid reduces blood loss in total knee replacement surgery. World Journal of Pharmaceutical Research.2022 ; 11(6): 627-636.
2. Sharmila Nirojini. P, Sharon maria, M Sivadarsha, Stefphy Mary koshy, ZumZum S. Psychological impact of covid 19 Pandemic. World journal of pharmaceutical research. 2021 ; 11(1): 524-539.
5. Malarvizhi P, Redlin Jani R.R. Nephrotoxicity and cardiotoxicity by Lithium – A case study. World Journal of Pharmacy and Pharmaceutical Sciences. 2022 ; 11(7): 1156-1159.
3. Nithyakala. P, Merlin Jose and Monica B. Cholelithiasis: An Overview on Pre-disposing factors, Pathogenesis and Management in Clinical Care Setting. World Journal of Pharmaceutical Research. 2022 ;11 (5): 592-603.
6. Arthanareeswaran, S., Nithya R., Gayathri, M., Jose M., Monica, B. and Muthuselvi, R.. A case report on sphenoidal sinusitis with Brain Abscess in a 16 Year Old. Journal of Pharmaceutical Research International. 2022 ; 34(26A): 32-36

## DEPARTMENT ACTIVITIES

### WEBINAR SERIES - 2022

June - July webinar series Organized by  
Department of Pharmacy Practice

- ★ **OVERVIEW OF MEDICAL WRITING** by Dr. Ramya.P, Pharm D., Senior Medical Writer, HCL Technologies, On 4<sup>th</sup> June 2022.
- ★ **ROLE OF ONCOLOGY CLINICAL PHARMACIST** by Dr. Nobil Skaria, Pharm D., MBA., Senior Oncology Clinical Pharmacologist & Head of Clinical Pharmacy, on 11<sup>th</sup> June 2022.
- ★ **ANTIMICROBIAL STEWARDSHIP** by Dr. J. Goutham Kumar, Pharm D., Senior Clinical Pharmacologist, HCG Cancer Hospital, Bengaluru, on 18<sup>th</sup> June 2022.
- ★ **COMMUNITY CONNECT – PHARMACEUTICAL CARE** by Dr. Anandha Naik Nagappa, President, Association of Community Pharmacist of India, on 2<sup>nd</sup> July 2022.
- ★ **ROLE OF CLINICAL PHARMACIST IN OBSTETRIC CARE** by Dr. Vineela. N, Pharm D, Ph.D., Assistant Professor, PES University, Bengaluru, on 16<sup>th</sup> July 2022.

### AWARDS AND ACHIEVEMENTS

- ❖ Department of Pharmacy Practice in association with IIT Kharagpur organised a certificate course (30 hours) on Clinical Pharmacology and Therapeutics from 16<sup>th</sup> May -31<sup>st</sup> May 2022. Winners selected for finalae at IIT Kharagpur.
- ★ Dhivya bharathi .S, V-Pharm D
- ★ Anusree .S, V-Pharm D
- ★ Adithya .J, V- Pharm D
- ★ Sneha Anna .G, V- Pharm D
- ★ Femina .H, IV- Pharm D
- ❖ V Pharm students participated in inter college Fest on 24<sup>th</sup> June 2022 at JKKN College of Pharmacy and won 3<sup>rd</sup> prize in group dance.

### CLINICAL PHARMA PRACTICE-INDIAN AND GLOBAL SCENARIO 2022

The Department of Pharmacy Practice, Swamy Vivekanandha College of Pharmacy successfully organized the 6<sup>th</sup> National level seminar on “**Clinical Pharma Practice-Indian and Global Scenario**” (CPP-IGS-2022) with a theme of “**Health Economics and Outcomes Research (HEOR)**” on 25<sup>th</sup> June, 2022 at Dental Seminar Hall . This seminar was approved as a CEP by Dr. M.G.R. Medical University, Chennai with **10 Credit points**.



### OUT REACH ACTIVITIES

#### WORLD ENVIRONMENT DAY

I Pharm D students in association with ISPOR - SVCP Student chapter observed World Environment Day on 5<sup>th</sup> June 2022.



#### WORLD HEPATITIS DAY

III Pharm D students in association with ISPOR - SVCP Student chapter observed World Hepatitis Day on 28<sup>th</sup> July 2022 at Government High School, Kumaramangalam. They created awareness among school children on Hepatitis.



Book Post



Please send your suggestions to  
The Chief Editor

### CLINICAL PHARMA PRACTICE NEWSLETTER

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