

## **Integrating Vaccination Guidelines in Dermatology**

### **Key Takeaways:**

1. Importance of Vaccination:
  - Vaccines are considered one of the greatest achievements of medicine, significantly reducing morbidity and mortality from infectious diseases. Dr. Serota emphasized that the benefits of vaccines far outweigh the risks.
2. Benefit-Risk Ratio:
  - Despite potential side effects, vaccines have a very favorable benefit-risk ratio. Few medical procedures can boast such high efficacy and safety.
3. Key Age Milestones for Live Vaccines:
  - Serota reminded that children receive live vaccines at ages 1 and 4, which is important to consider when planning vaccination for patients, especially those receiving systemic therapy.
4. Immune System Load:
  - Modern vaccines contain far fewer antigens compared to past decades. The human immune system can handle a large number of antigens simultaneously, making current vaccine loads insignificant.
5. Types of Vaccines and Their Applications:
  - An overview of different types of vaccines, including inactivated and live attenuated vaccines. Live vaccines can be risky for immunocompromised patients.
6. Vaccination of Patients on Biological Therapy:
  - Vaccination of patients on biologics, such as dupilumab, is safe and does not worsen the course of atopic dermatitis. Live vaccines should be administered 4 weeks before starting dupilumab therapy.
7. Specific Vaccine Recommendations:
  - Yellow fever: The vaccine can cause symptoms in 1% of patients, so it is important to consider travel plans.
  - Shingles: It is recommended to use the non-live recombinant vaccine due to its better efficacy and safety.
  - MMR and chickenpox: Checking antibody levels can help avoid a second dose of the vaccine.
  - HPV: Recommended for patients with recurrent nongenital warts.
8. Patient Monitoring Post-Vaccination:
  - Patients on immunosuppressive therapy should be vaccinated with a 1-month interval before and after starting therapy. It is also important to monitor patients for 30 minutes after injections to track possible side effects.