Goals and Objectives

Course Description

"Autoimmune Diseases" is an online recorded video of a previously presented live CE webinar for occupational therapists and occupational therapist assistants. This course presents contemporary information about four of the most common autoimmune diseases: type 1 diabetes, multiple sclerosis, rheumatoid arthritis, and systemic lupus erythematosus. This course includes discussion of pathophysiology, etiology, clinical presentation, and medical management strategies.

Course Rationale

The purpose of this course is to provide participants with contemporary information about four of the most common autoimmune diseases. Occupational therapy professionals can use this information to develop and implement effective treatment programs that address the specific needs of individuals effected by these disorders.

Course Goals and Objectives

Upon completion of this course, participants will be able to:

- 1. Compare normal and dysfunctional immune system functioning.
- 2. Distinguish the primary mechanisms of tissue damage in autoimmune disease.
- 3. Identify etiological factors contributing to the development of autoimmune disease.
- 4. Differentiate organ and system specific autoimmune diseases.
- 5. Identify the immunologic mechanisms contributing to multiple sclerosis, type 1 diabetes, rheumatoid arthritis, and systemic lupus erythematosus.
- 6. Define the clinical presentation of common autoimmune conditions.
- 7. Identify therapeutic considerations for common autoimmune conditions.
- 8. Identify pharmacological trends for common autoimmune conditions.
- 9. Identify other common autoimmune diseases and comorbidities.
- 10. Identify emerging trends in the management of autoimmune diseases.

Course Provider - Innovative Educational Services

Provider Contact Information - information@cheapceus.com

Course Instructor - Jodi Gootkin, PT, Med, CEAS

Financial/Non-financial Disclosure - Neither the Provider nor the instructor have any financial or non-financial conflict of interest related to the presentation of this CE program.

Target Audience – Occupational Therapists, Occupational Therapy Assistants

OT Scope of Practice - Professional Issues

Course Educational Level – This course is applicable for introductory learners.

Course Prerequisites - None

Instructional Method - Distance Learning - Independent; Asynchronous online video-based home study

Location - Cheapceus.com

Date - Continuously available on-demand

PD Activity Completion Requirements / Criteria for Issuance of CE Credits – Completion of viewing of 1 hour recorded video, and a score of 70% correct or greater on the course post-test.

Continuing Education Credits – Three (3) contact hours / .3 AOTA CEUs

Course Fee - \$34.95

Registration Information - No pre-registration required; available on-demand at Cheapceus.com

Special Needs Requests - Email: information@cheapceus.com or phone: 954-663-4101

Cancellation by the Learner – Learners may cancel their participation at any time and receive a full refund of all paid fees.

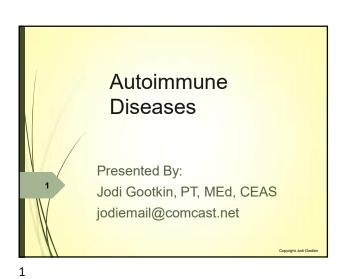
Cancellation by the Provider – Registrants for the cancelled activity will be contacted by an IES staff member via phone call or email within 12 hours of the cancellation decision. If the decision to cancel is made less than 14 hours prior to the event, each participant will be contacted no later than 2 hours prior to the scheduled start time of the activity. Registrants will receive a full refund if an activity is cancelled by the Provider. The refund will be processed back to the Registrant within 12 hours of the cancellation.

Complaint Resolution – Please call 954-663-4101 (24 hours/day, 7 days/week) to speak with a live customer service agent. Our goal is to work with our customers to resolve all issues to the customer's satisfaction with just one phone call whenever possible.

Refund Policy - Unrestricted 100% refund upon request. The request for a refund by the learner shall be honored in full without penalty or other consideration of any kind. The request for a refund may be made by the learner at any time without limitations before, during, or after course participation.



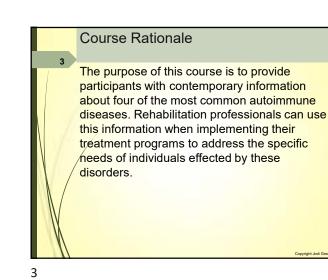
Innovative Educational Services is an AOTA Approved Provider of professional development. PD activity approval ID# 5471. This Distance Learning – Independent PD activity is offered at .3 CEUs; Introductory; OT Foundational Knowledge. The assignment of AOTA CEUs does not imply endorsement of specific course content, products, or clinical procedures by AOTA.

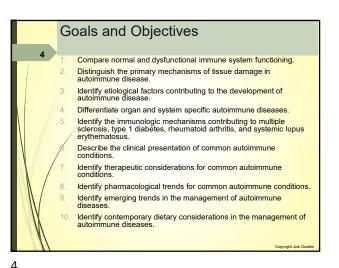


Course Overview

 "Autoimmune Diseases" presents contemporary information about four of the most common autoimmune diseases: type 1 diabetes, multiple sclerosis, rheumatoid arthritis, and systemic lupus erythematosus.
 This course includes discussion of pathophysiology, etiology, clinical presentation, pharmacological management and therapeutic considerations for patients with these diagnoses.

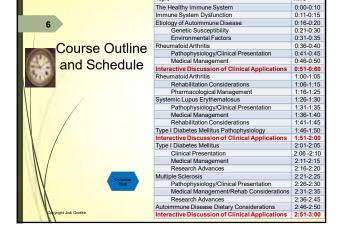
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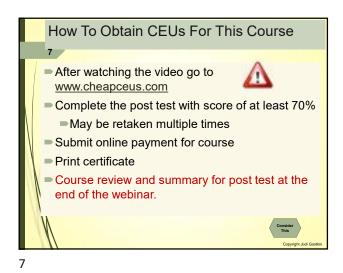


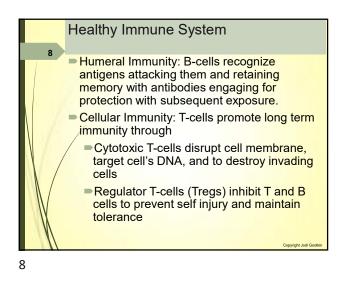
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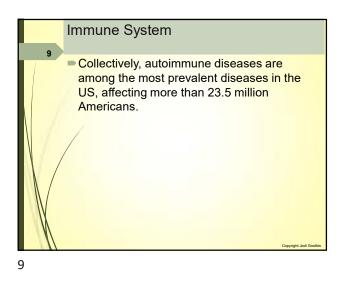
Application of concepts presented in this webinar is at the discretion of the individual participant in accordance with federal, state, and professional regulations.

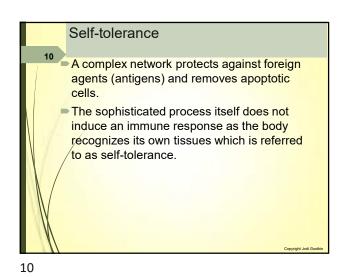


Autoimmune Diseases









 Immune System Dysfunction

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 Hypersensitivity

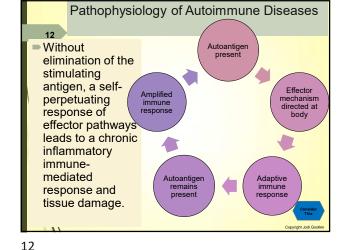
 • Allergic reaction

 Immunodeficiency

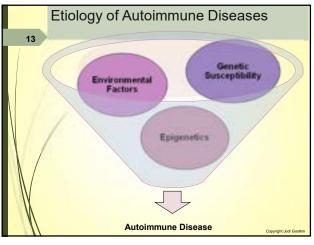
 • Immune system unable to suppress foreign antigens

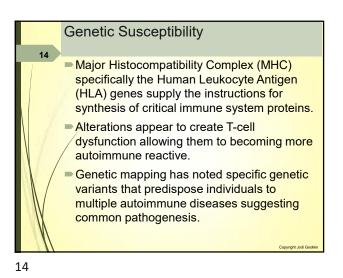
 • Loss of self-tolerance causes an amplified autoimmune response

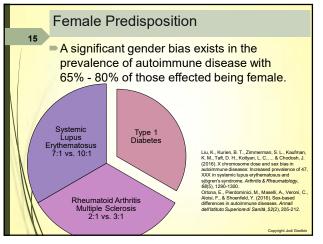
 • Autoantigens – normal tissue that is targeted by humeral or cell-mediated immune response



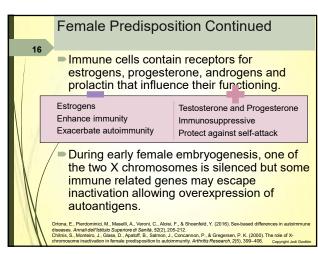
Autoimmune Diseases



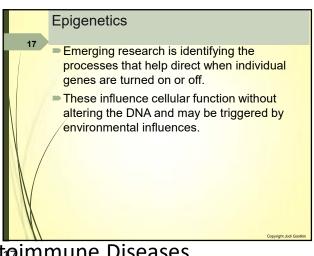


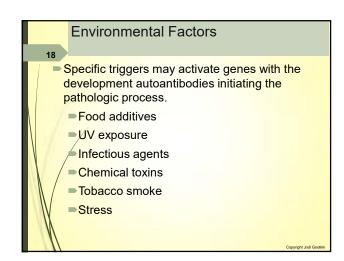


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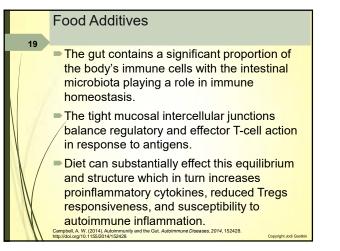
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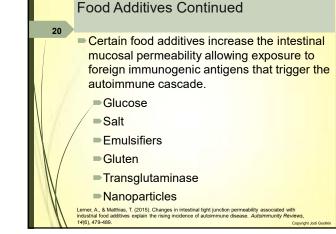


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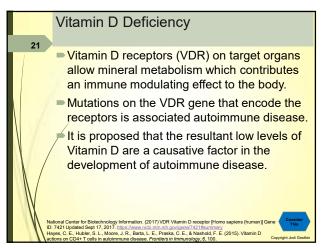
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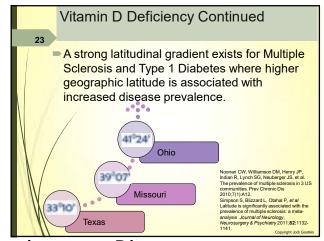


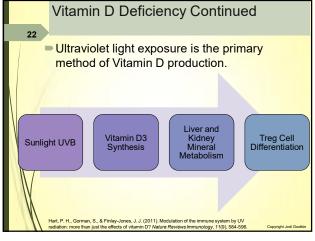




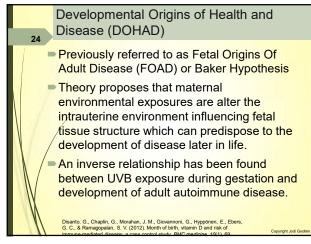


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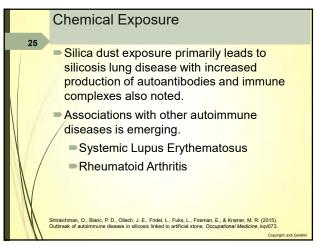




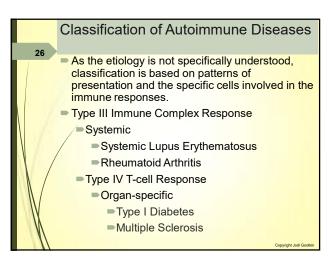




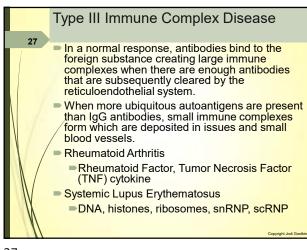




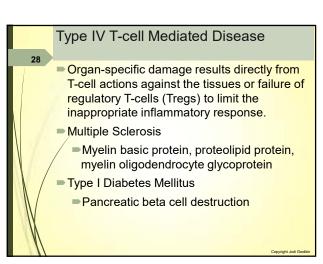


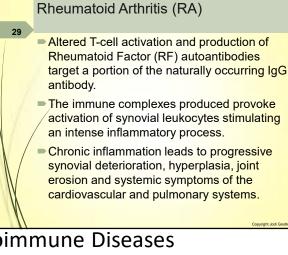


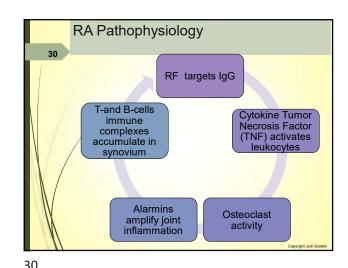




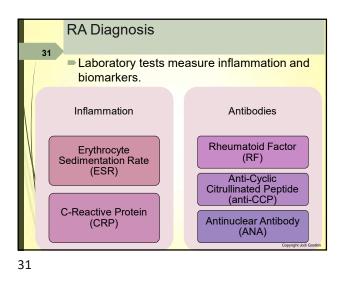
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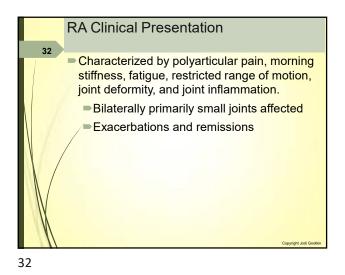


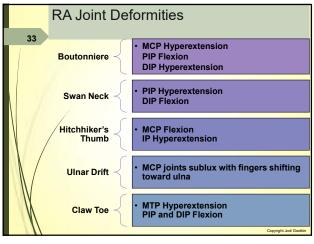


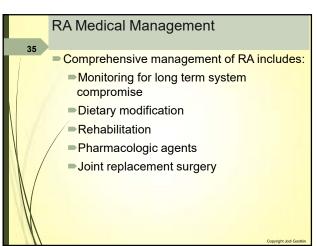


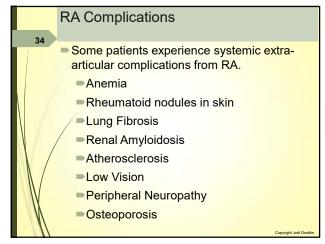
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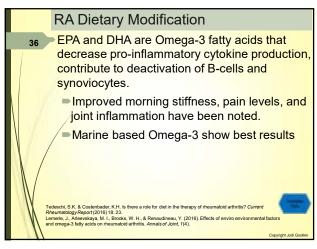






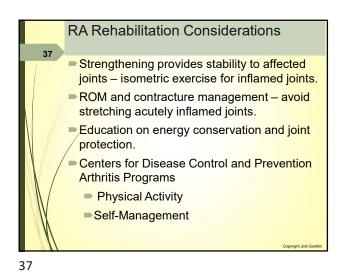


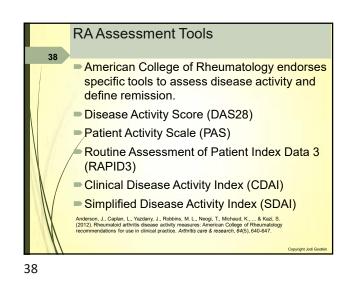
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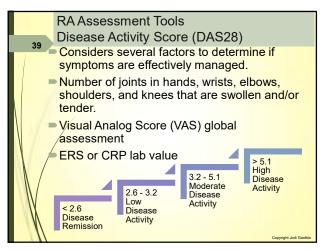


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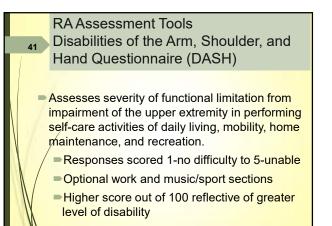
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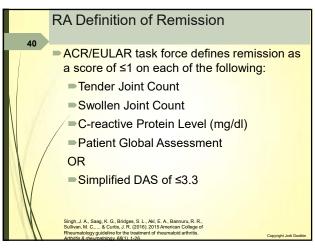




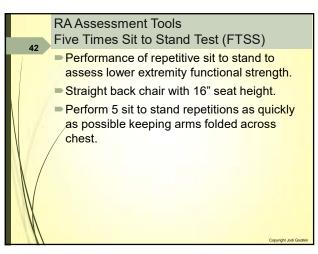


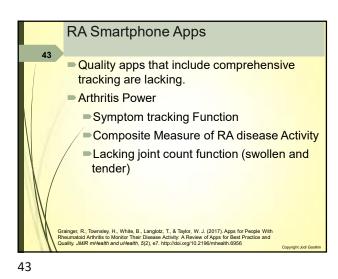
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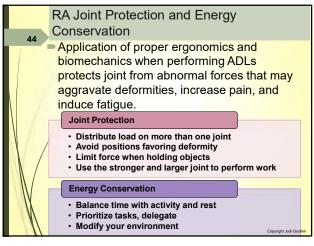




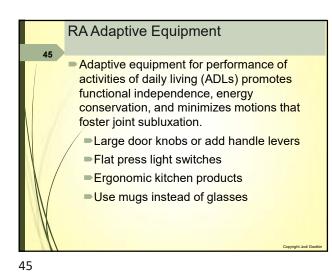


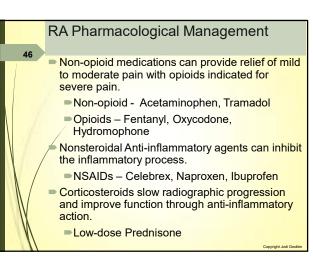




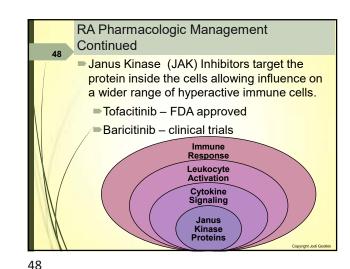


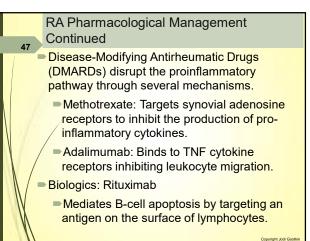


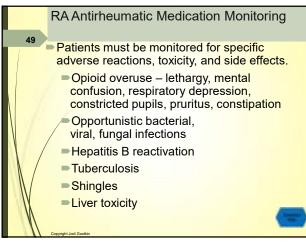




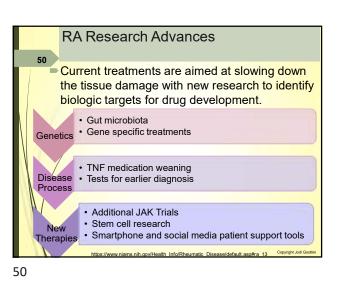


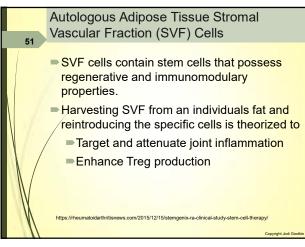




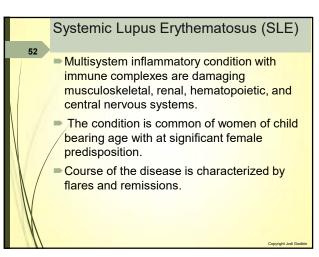


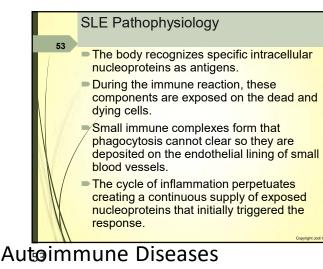


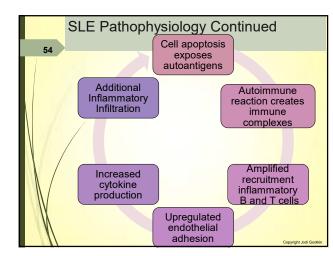


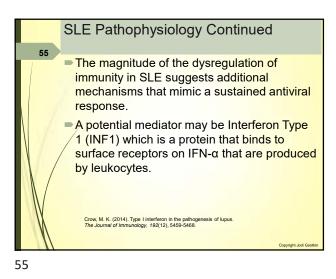


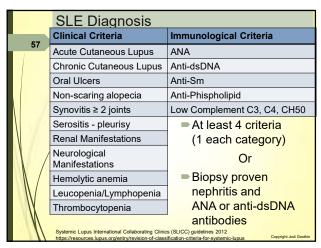
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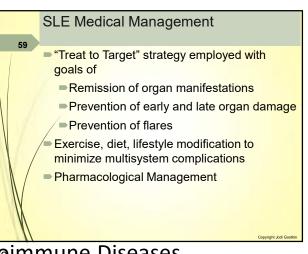






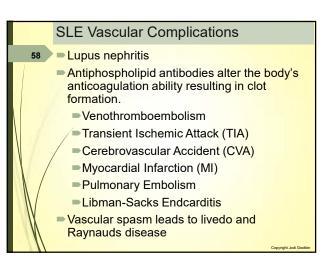




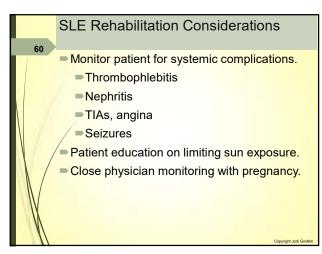






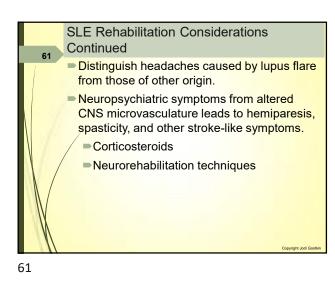


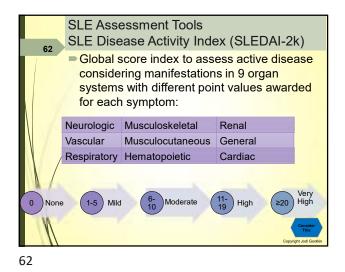
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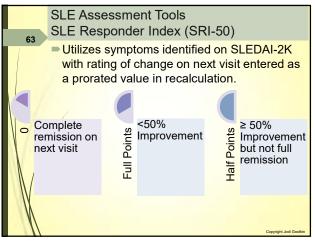


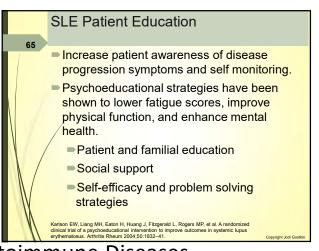
Autoimmune Diseases

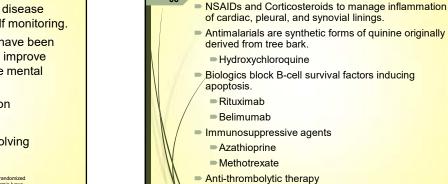
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Autoimmune Diseases

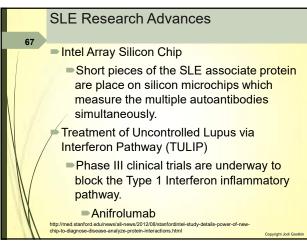
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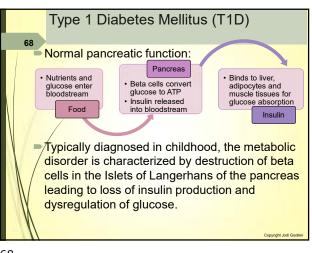


SLE Pharmacological Management

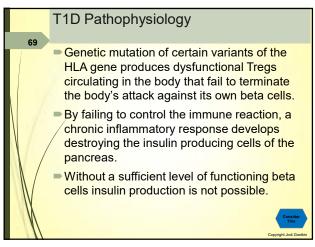
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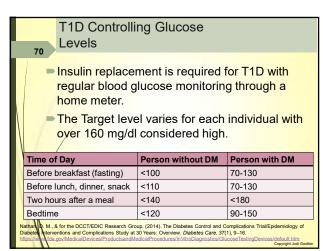


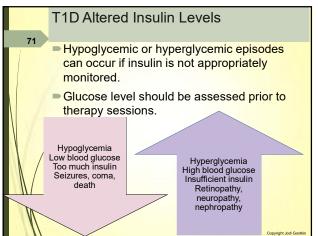






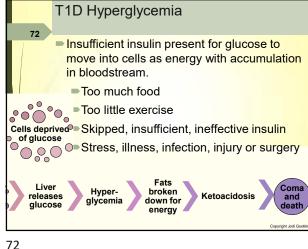
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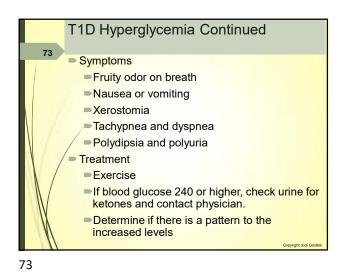


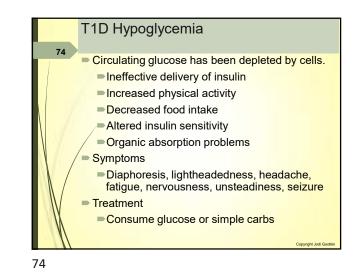


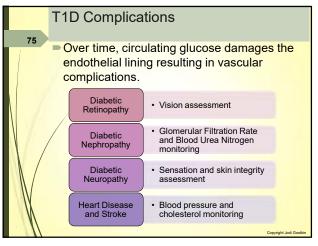
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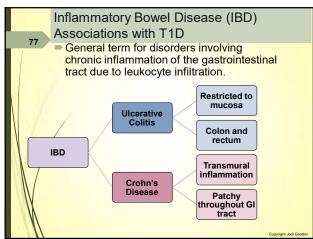




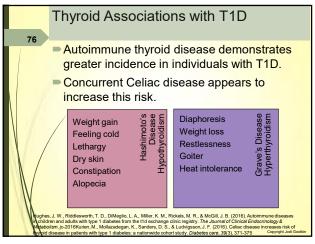




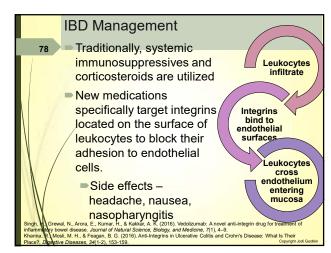


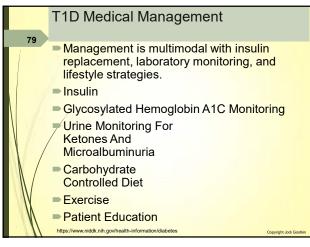


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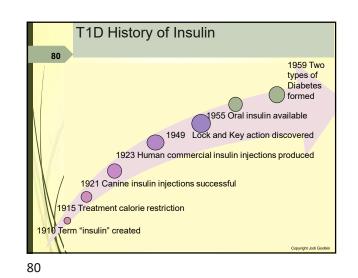


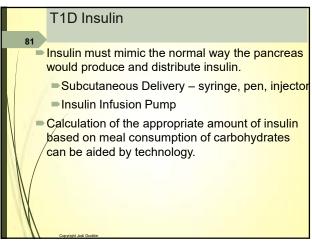
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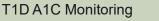








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 Glycosylated Hemoglobin A1C is a blood test measuring the amount of glucose that is attached to hemoglobin molecules in red blood cells providing information about the average blood glucose level over the past 2-3 months.

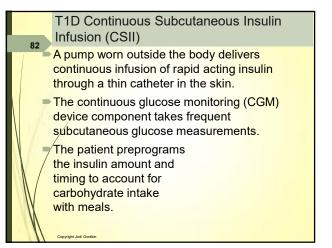
Target is below 7%

A higher A1C level indicates elevated glucose levels that contribute to increased complications in other body systems.

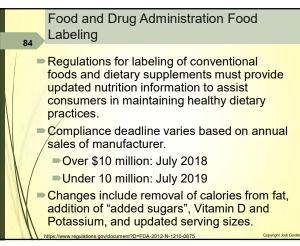
Autoimmune Diseases

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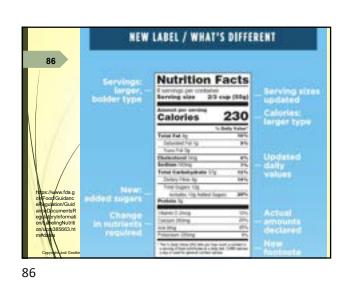
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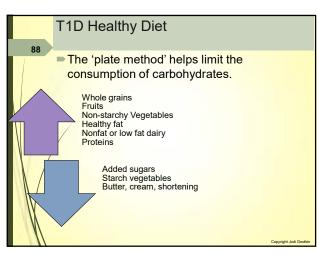




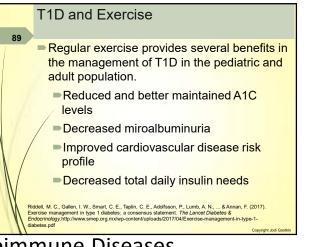


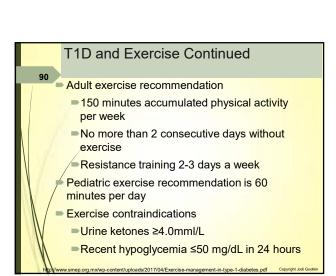
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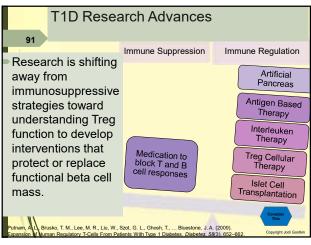
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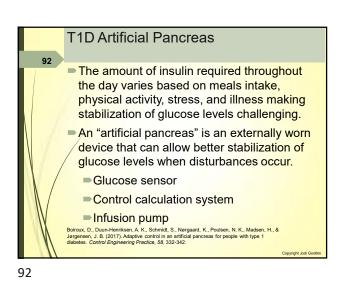


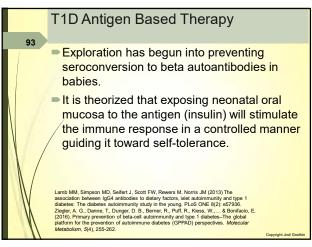
Autoimmune Diseases

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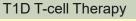








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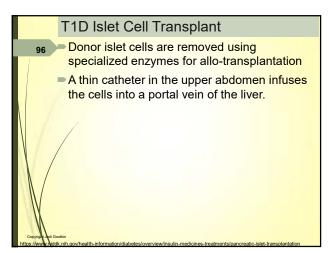
- 95 Treg Cellular Therapy: Extracted Tregs from the individual's circulatory system or cryopreserved umbilical cord blood (UCB) can be isolated and expanded then reintroduced into the body to restore immune tolerance to the pancreatic beta cells.
 - Engineered Tregs: Designing Tregs with specialized receptors to recognize beta cells can protect them from the autoimmune attack and preserve overall immune system responsiveness.

http://diabetes.ufl.edu/research

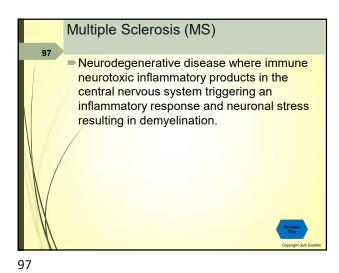
Autoimmune Diseases

T1D Interleukin Therapy
 The goal is to expand Tregs so that self-tolerance mechanisms are restored and some of the insulin producing beta cells are spared from damage.
 Administration of low does Interluken-2 (IL-2) appears to increase proliferation of Tregs that limit the destructive inflammatory response.
 Action of effector T-cells is preserved allowing beneficial immune responses to other pathogens to continue.



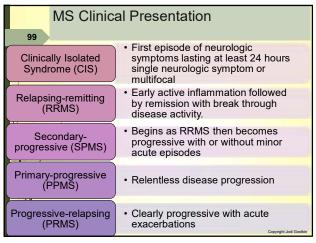




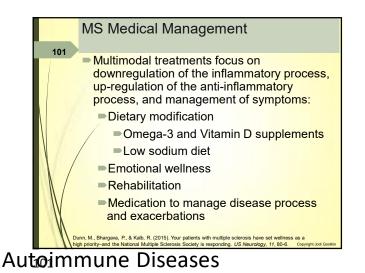


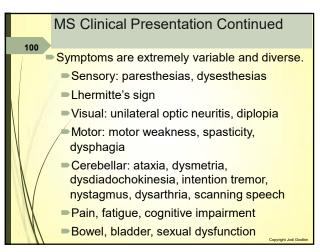
98 MS Pathophysiology Activated T/B cells cross blood-brain barrier Axon neurodegeneration Gliosis and plaque formation Oligodendrocytes remyelinate Inflammation subsides Cyptotxic effects disrupt myelin sheath Inflammation

98

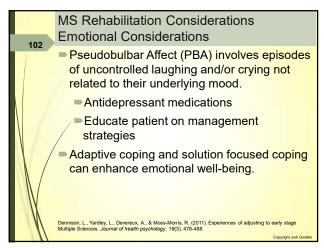


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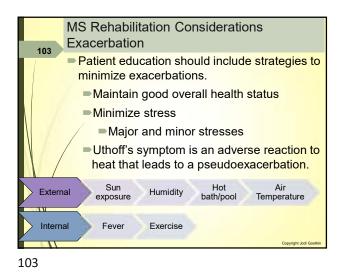


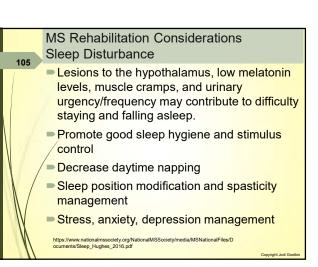




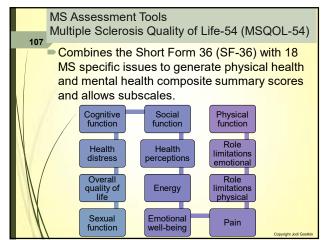


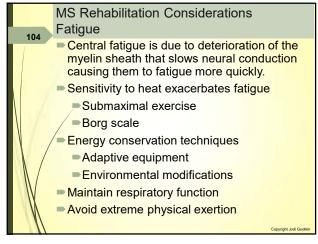




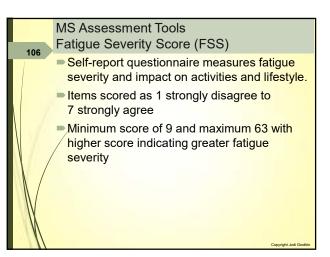


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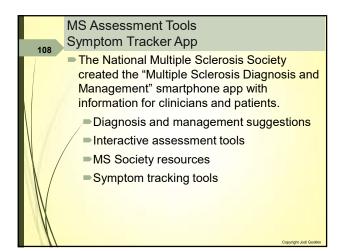




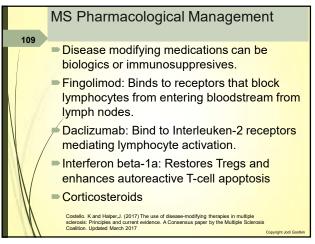




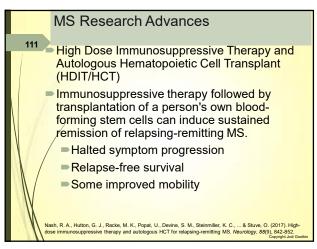
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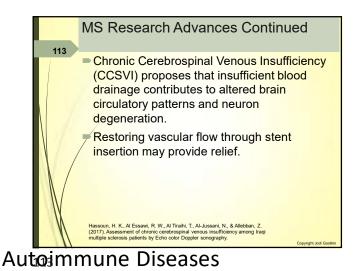


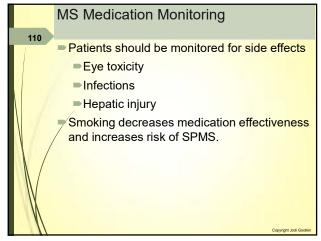




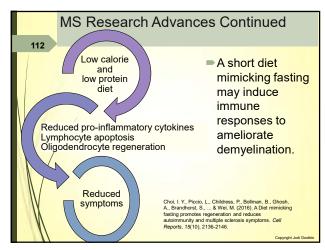


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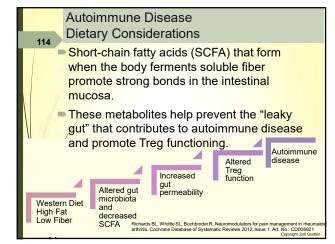






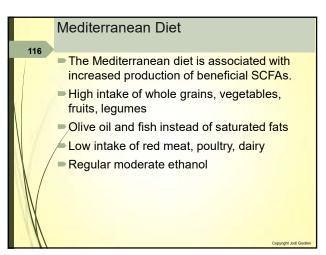




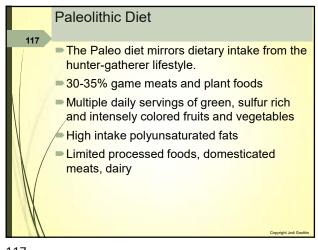




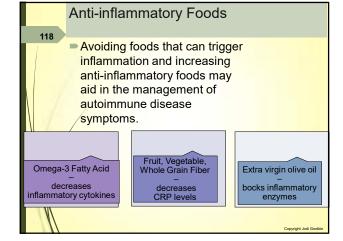
| | SCFA Food Sources | |
|--|-----------------------|--|
| 115 | Resistant Starches | Barley, brown rice, beans, lentils, cooked and cooled potatoes, green bananas |
| | Inulin | Artichokes, onions, aspara <mark>gus, leeks</mark> |
| | Arabinoxylan | Cereal grains wheat bran, corn, rice, rye, oat, barley |
| | Pectin | Apples, apricots, carrots, oranges |
| | Butyrate | Parmesan cheese, goat milk, butter |
| Damen, B. Coetens, L. Broekaert, W. F., François, I. Lescroart, O., Trogh, I., & Verbeke, K. (2012). Consumption of breads containing in situ-product and analimous and an analysis of the state of | | |



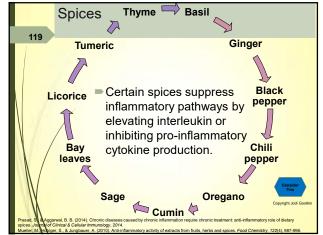


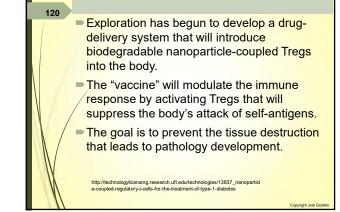








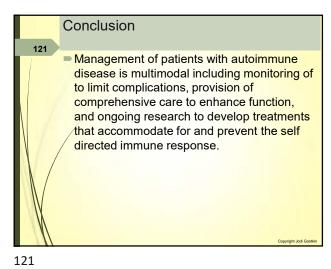


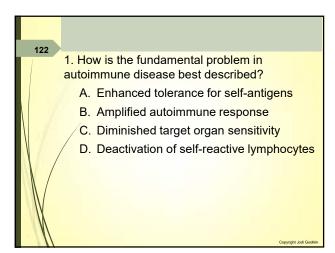


Nanotechnology

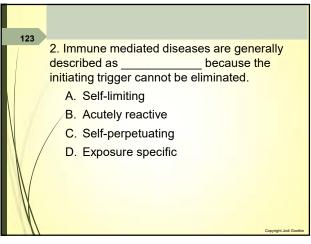


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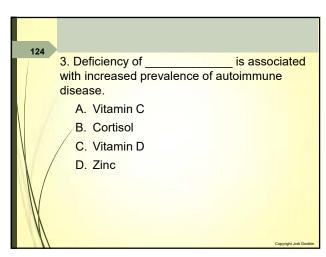




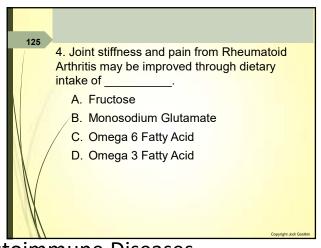


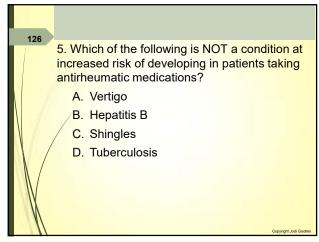


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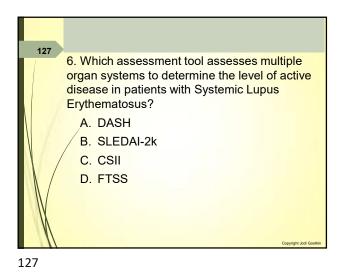


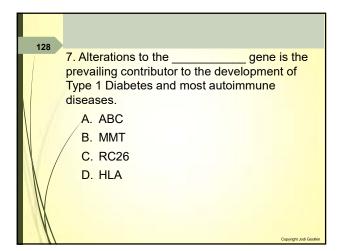


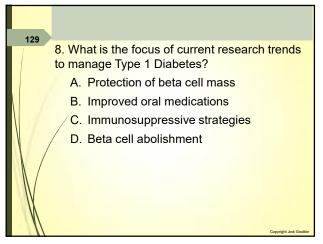




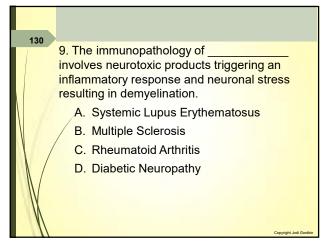
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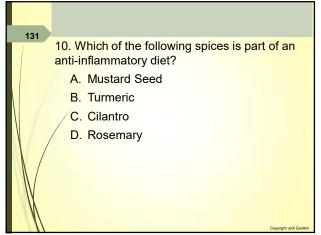




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