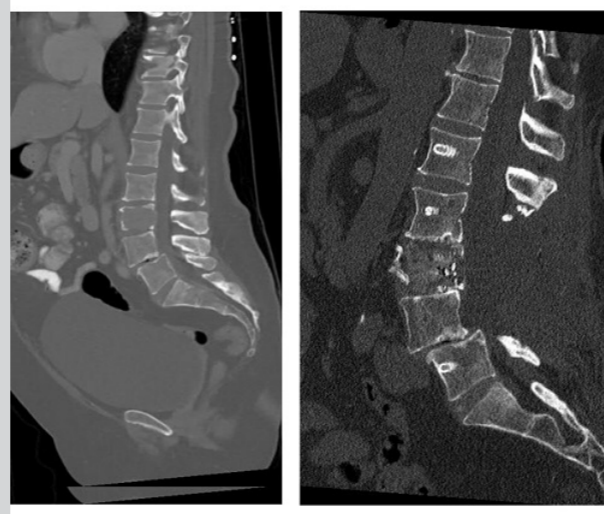


# Clinical Physician Update

August 2023

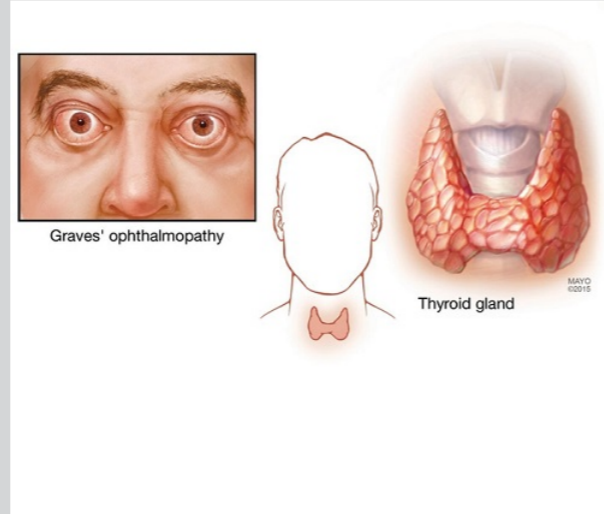
## Patient Care



### Spinal oncology surgery helps increase longevity

A multidisciplinary surgical team at Mayo Clinic takes a minimally invasive approach to spinal oncology surgery to increase longevity and quality of life for patients with primary or metastatic spinal cancer.

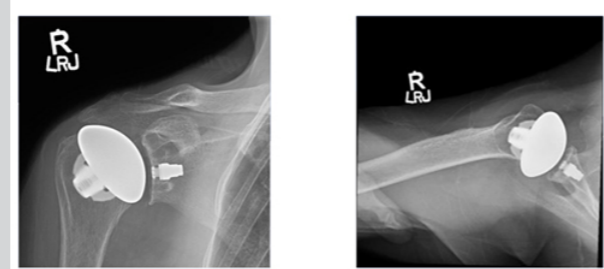
[Learn more](#)



### Customized, collaborative approach to treatment of thyroid eye disease

Mayo Clinic's Thyroid Eye Disease Clinic model has aided in streamlining diagnostic processes and treatment recommendations.

[Learn more](#)



### Stemless shoulder replacement shows promise for patients

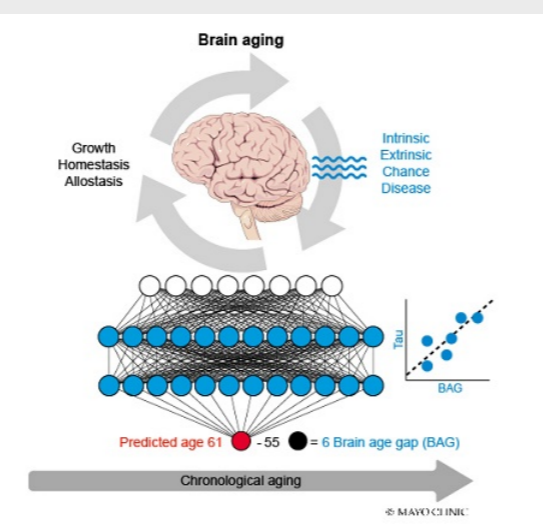
A Mayo Clinic review study finds that stemless shoulder implants have advantages for patients who need anatomic shoulder arthroplasty. Over 95% of patients who undergo this surgery qualify for the stemless implants.

[Learn more](#)

Visit the [Medical Professional Video Center](#) to view specialty videos and Grand Rounds presentations

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## Research



### Artificial intelligence model sheds light on neurodegenerative diseases

Mayo Clinic researchers developed a deep learning model that produces a biomarker of neurodegenerative disease states. The model helps assess differences between chronological age and "brain age."

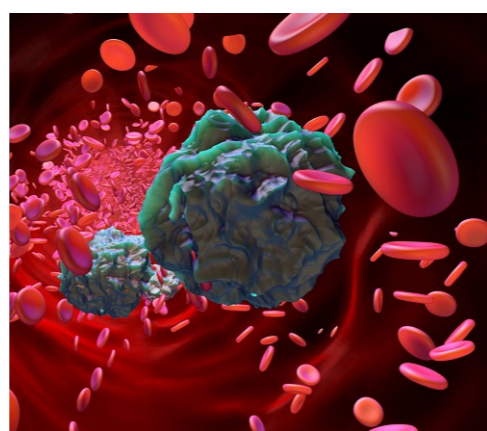
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## Education

Mayo Clinic School of Continuous Professional Development offers [live courses](#), [livestreaming courses](#), [online continuing medical education \(CME\) courses](#) and [podcasts](#) to meet your CME needs.

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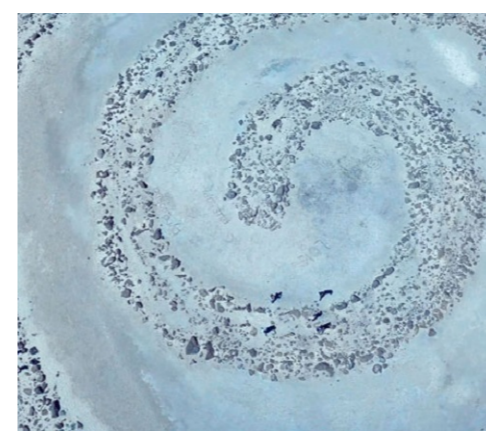


### Acute and Chronic Leukemias: Practical Applications 2023

Oct. 6-7, 2023  
Orlando, Fla.

This two-day symposium reviews current diagnostic and treatment standards for acute and chronic leukemias. Interactive case presentations feature panels of experts weighing in on pivotal treatment issues.

[Register Now](#)



### Mayo Clinic 31st Audiology Conference: Integrated Hearing Healthcare Across the Lifespan

Oct. 14, 2023  
Rochester, Minn., and Livestream

This interactive course focuses on navigating enhanced care pathways where multidisciplinary teamwork and practice innovation intersect to meet the needs of the patient.

[Register Now](#)

## Consults and Referrals

Phoenix/Scottsdale, Arizona  
866-629-6362

Jacksonville, Florida  
800-634-1417

Rochester, Minnesota  
800-533-1564

[Online Referrals](#)

## Resources

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