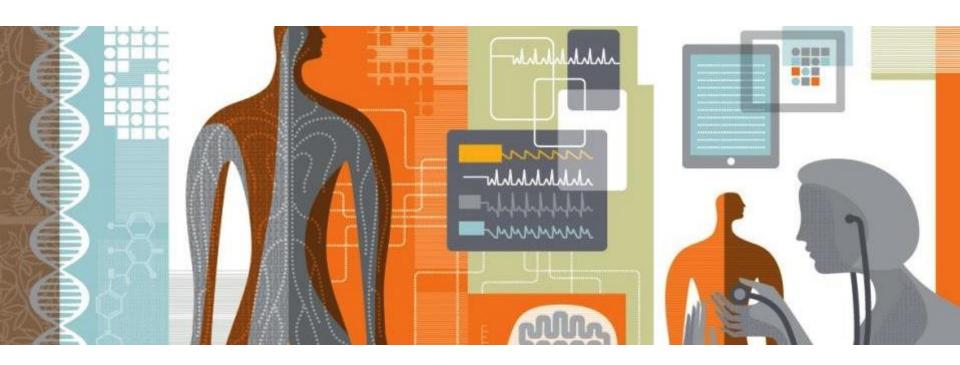
Elsevier Clinical Solutions



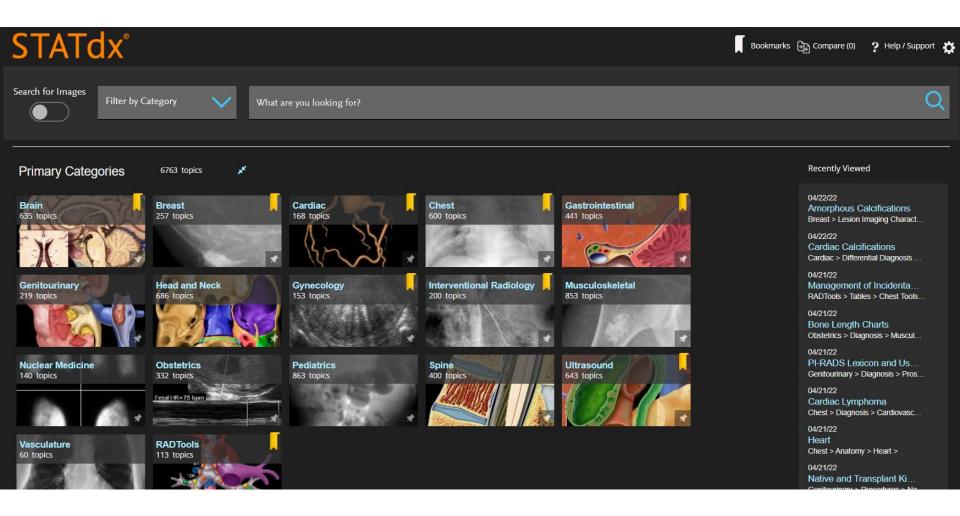
STATdx Radiology Diagnostic Decision Support Amirsys



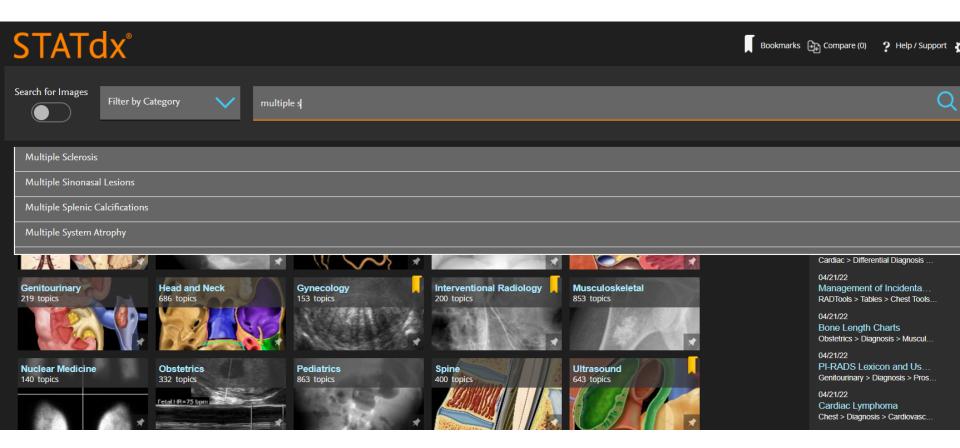
Vivian Chen陳品蓉 Account Manager 0905-129-301 v.chen@elsevier.com

Empowering Knowledge
Elsevier Clinical Solutions 2022

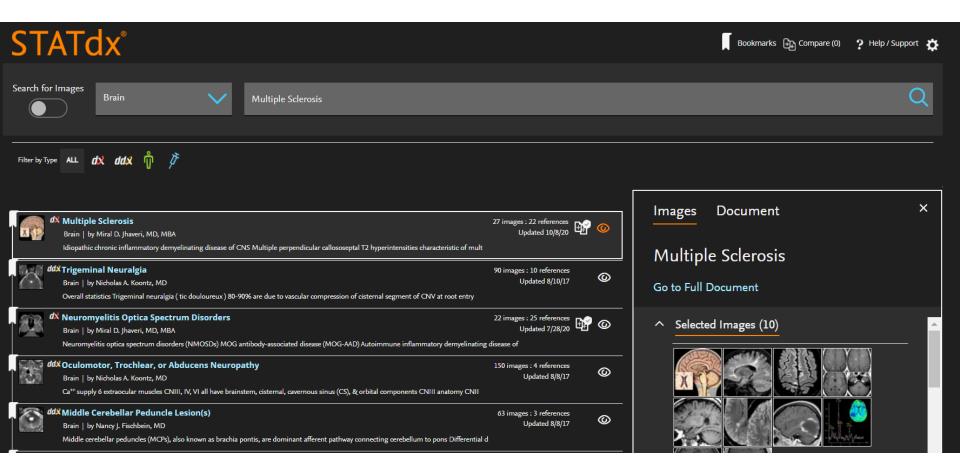
Homepage STATdx



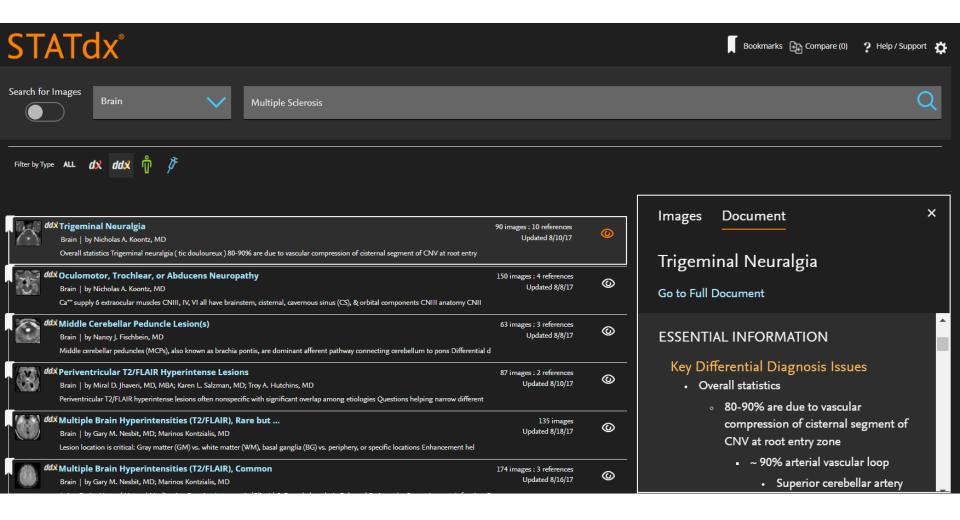
Search box with autofill:



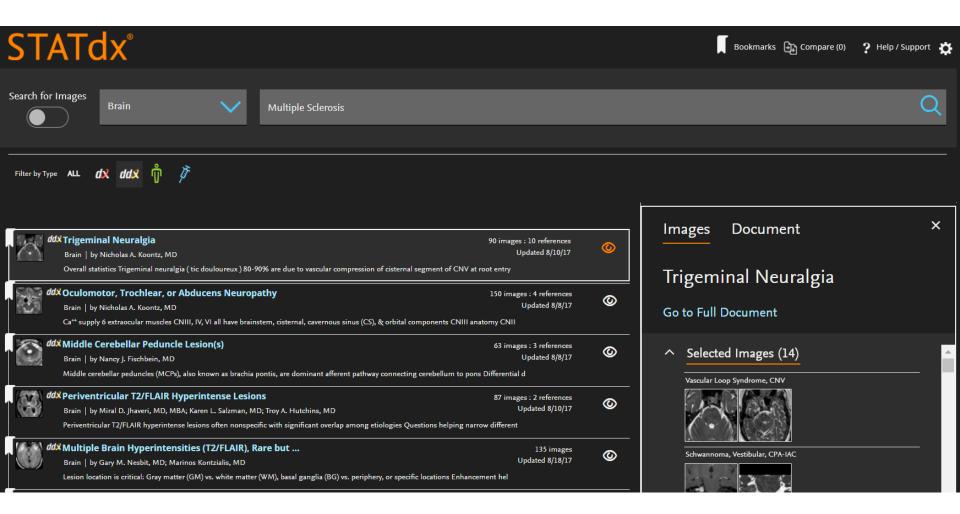
Search result and filtered by category brain only



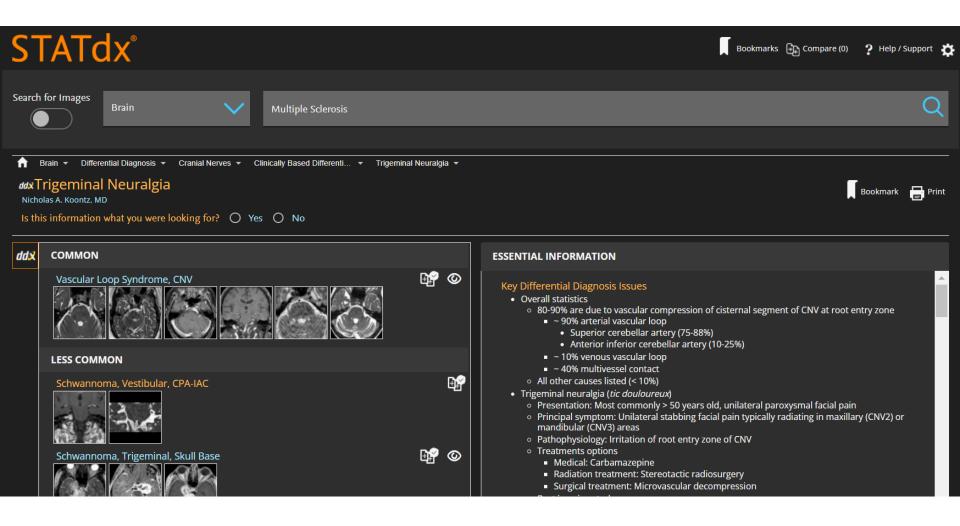
Preview of DDX without leaving your search result



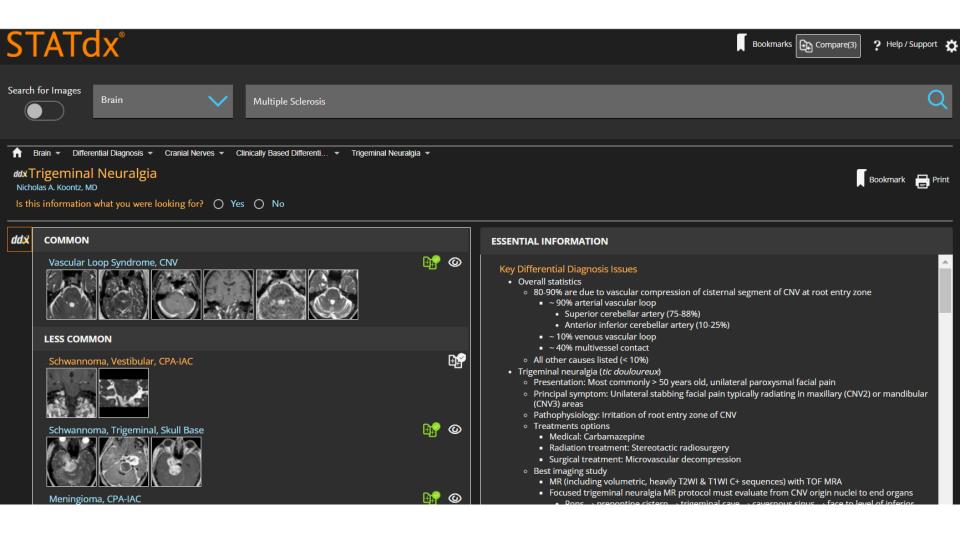
Same preview but now with the images



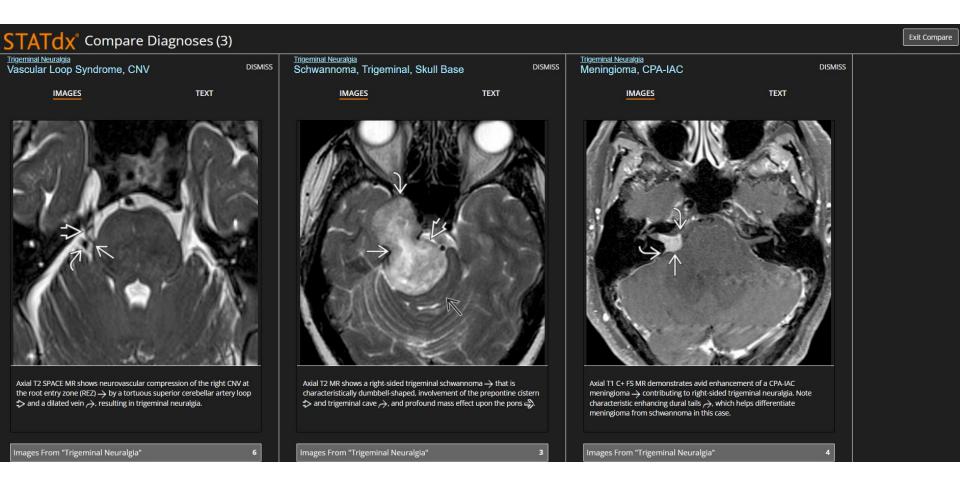
Overview of the DDx (separate preview possible for Dx)



Selection of 3 different Dx's for comparison (green)



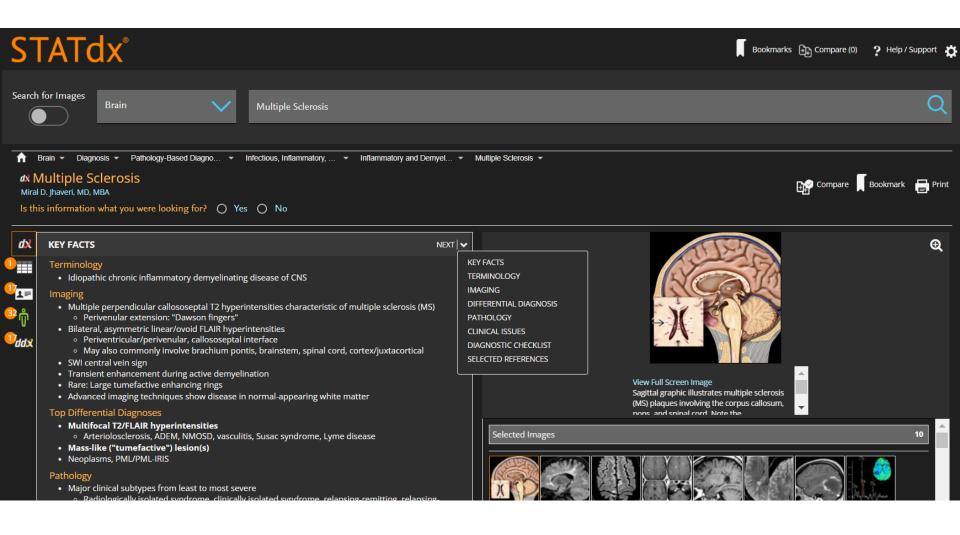
Compare mode (images, but click text, see next screen)



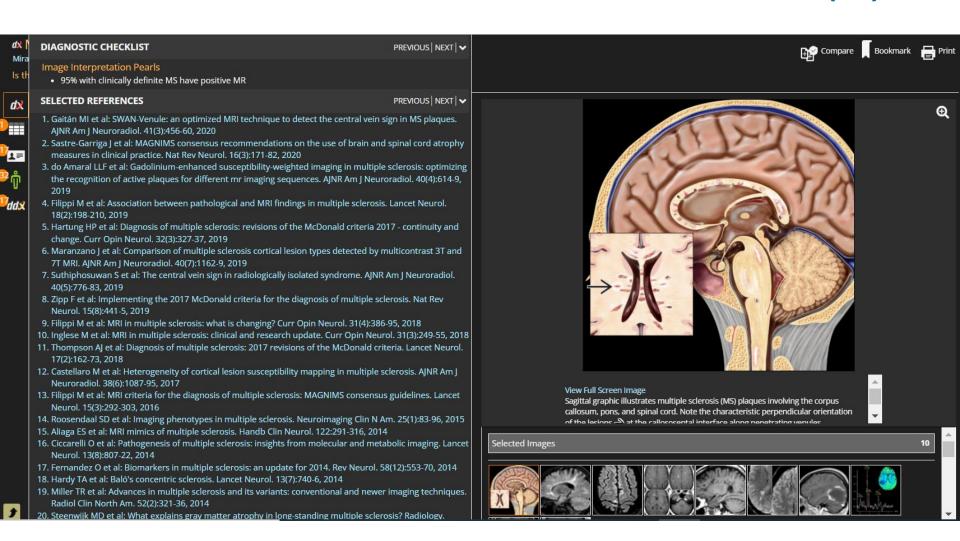
Compare by text / facts and dismiss or select Dx

Exit Compare STATOX[®] Compare Diagnoses (3) Trigeminal Neuralgia Trigeminal Neuralgia DISMISS DISMISS DISMISS Vascular Loop Syndrome, CNV Schwannoma, Trigeminal, Skull Base Meningioma, CPA-IAC IMAGES **IMAGES** TEXT TEXT **IMAGES** TEXT **ESSENTIAL INFORMATION ESSENTIAL INFORMATION KEY FACTS** Terminology Helpful Clues for Diagnosis Helpful Clues for Diagnosis Key facts: Aberrant or ectatic vessels in CPA cistern • Synonyms: Giant trigeminal schwannoma (TS), "dumbbell" TS · Key facts: Arises from arachnoid cap cells High-resolution MR-MRA identifies compressive artery routinely Imaging · Most common cause of trigeminal neuralgia Dural-based sessile mass · Tubular mass along course of trigeminal nerve MR: Enhancing mass with dural tail(s) • Imaging: Asymmetric looping artery impinges on CNV root entry o Can involve preganglionic (cisternal) segment, Meckel cave, o CT: Underlying bony hyperostosis or permeative sclerosis CNV1 (superior orbital fissure), CNV2 (foramen rotundum), Superior cerebellar artery > anterior inferior cerebellar artery > CNV3 (foramen ovale) posterior inferior cerebellar artery > vertebral artery o May extend extracranially via CNV exit foramina **KEY FACTS** Size: Small to giant **KEY FACTS** Morphology: Dumbbell shape secondary to constriction at porus Terminology trigeminus or skull base foramen Terminology • Definition: Benign, unencapsulated neoplasm arising from • CT: Soft tissue mass with smooth, bony erosion of central skull base, • Classic trigeminal neuralgia (TN) patients have meningothelial arachnoid cells of cerebellopontine angle (CPA)-± foraminal widening internal auditory canal (IAC) dura • Typical clinical syndrome of paroxysmal, lancinating pain in • MR: T1 iso- to hypointense, T2 hyperintense, variable enhancement unilateral trigeminal nerve (CNV) distribution Cyst formation is common • Radiologic evidence of vessel or vascular loop, typically artery. • 10% occur in posterior fossa that contacts or compresses ipsilateral proximal CNV in **Top Differential Diagnoses** • When in CPA, asymmetric to IAC porus acusticus cerebellopontine angle (CPA) Meningioma NECT: 25% calcified; 2 types seen · CNV3 perineural tumor Homogeneous, sand-like (psammomatous) · High-resolution MR demonstrates vessel contacting, displacing, or CNV2 perineural tumor o Focal sunburst, globular, or rim pattern compressing proximal CNV · Non-Hodgkin lymphoma • Bone CT: Hyperostotic or permeative-sclerotic bone changes • Offending vessels: Superior cerebellar artery (55%) > anterior possible (en plaque type) inferior cerebellar artery (AICA) (10%) > basal artery (5%) > variant o Bone CT indicated if bone invasion suspected on MR vein (5%) > other Benign nerve sheath tumor T2WI MR: Pial blood vessels seen as surface flow voids between o 2nd most common intracranial schwannoma next to vestibular tumor and brain Top Differential Diagnoses High-signal crescent from CSF ("CSF cleft") · Aneurysm in CPA-internal auditory canal May occur in setting of neurofibromatosis . T1WI C+ MR: Enhancing dural-based mass with dural tails centered · Arteriovenous malformation in CPA Diagnostic Checklist along posterior petrous wall · Developmental venous anomaly in posterior fossa When IAC tail present, usually dural reaction, not tumor Dumbbell-shaped or tubular mass along course of trigeminal nerve Top Differential Diagnoses Transition zone (TZ) between central myelin and peripheral myelin · Enhanced MR best to identify intracranial and extracranial extent of · Vestibular schwannoma is vulnerable to vascular compression; leads to myelin loss, atrophy

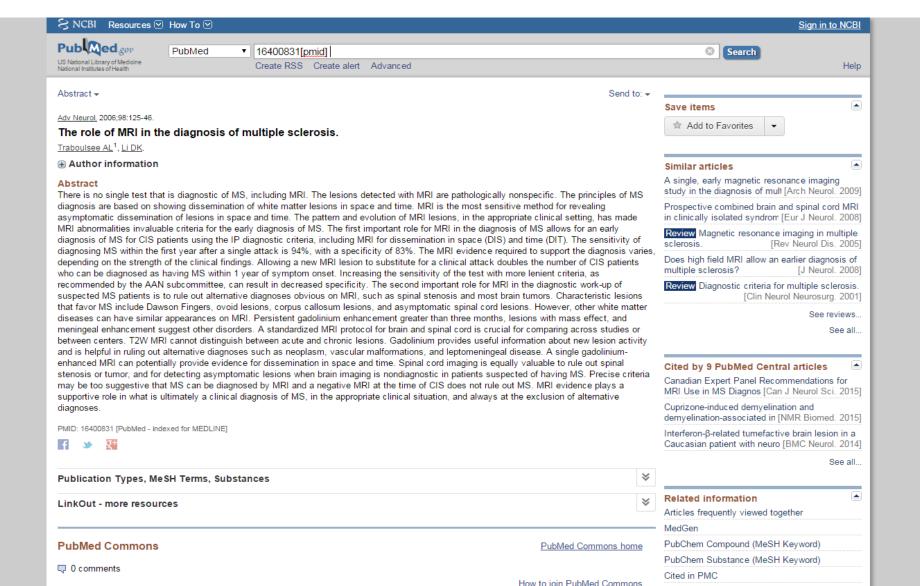
Dx of MS, with table of content (middle of the screen)



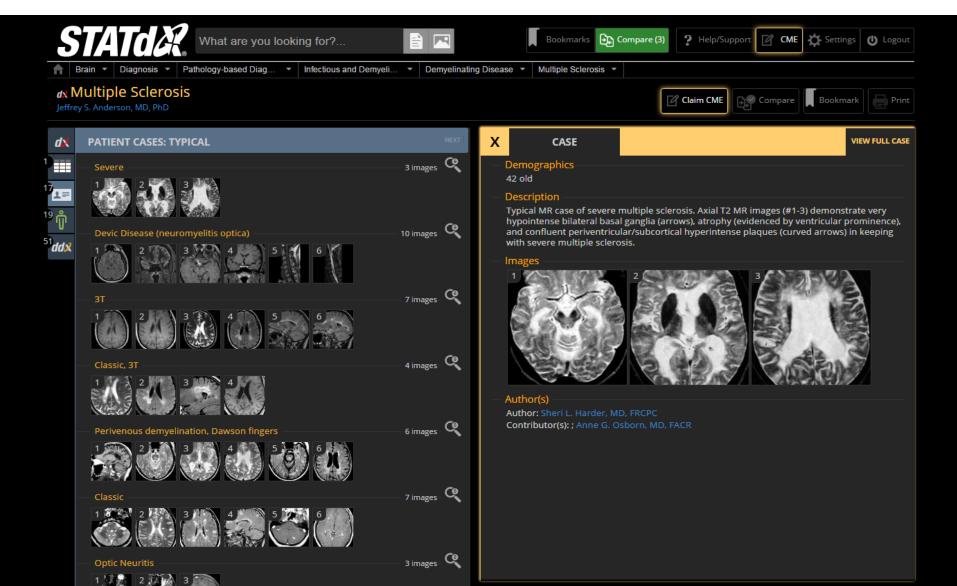
Selected references which will link out to Pubmed (20)



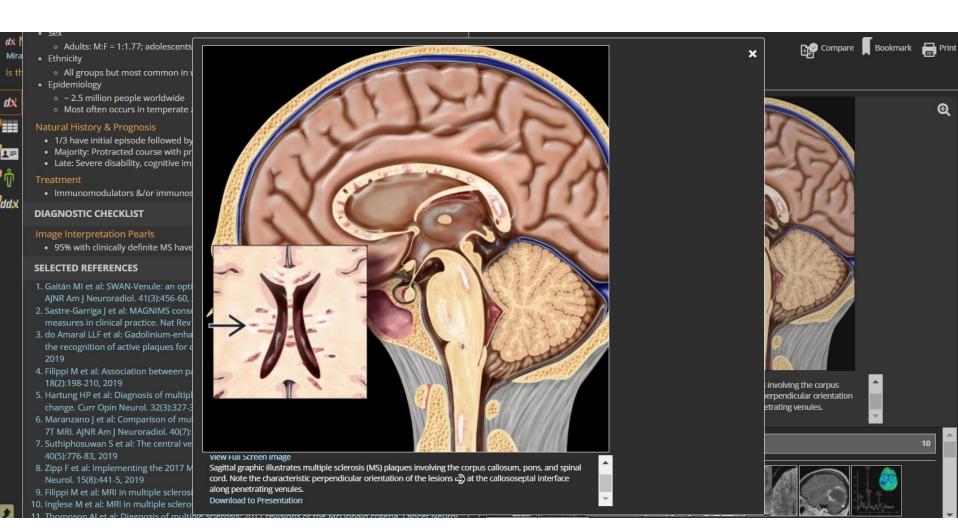
PubMed via Linkout of STATdx



Different Cases with preview on the right

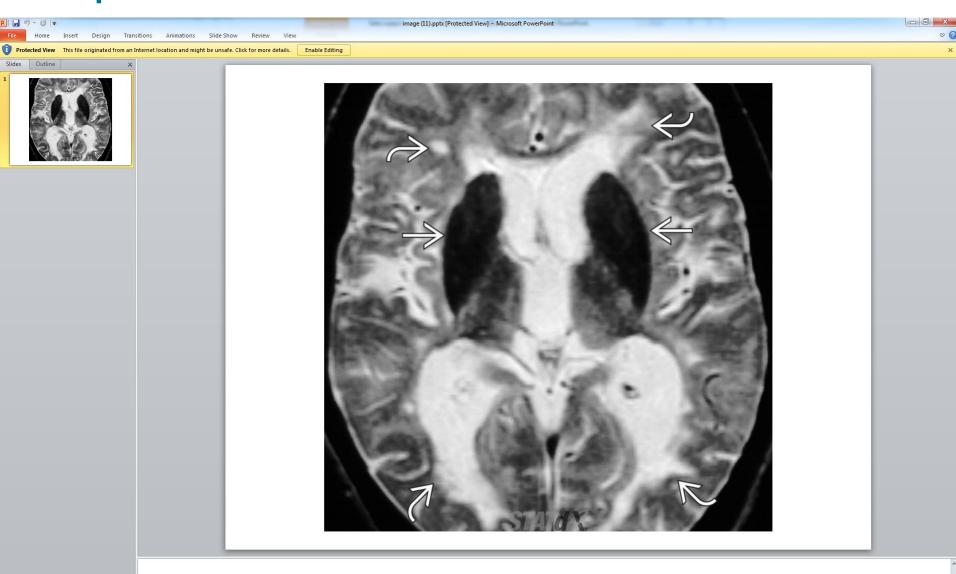


Enlarging Images with image captions and PPT



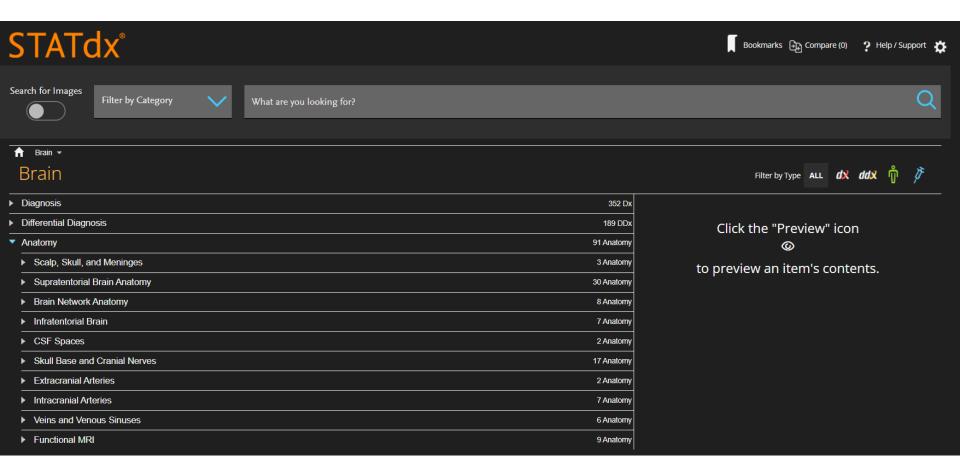
Slide 1 of 1 "Office Theme"

Exported to PowerPoint within two clicks

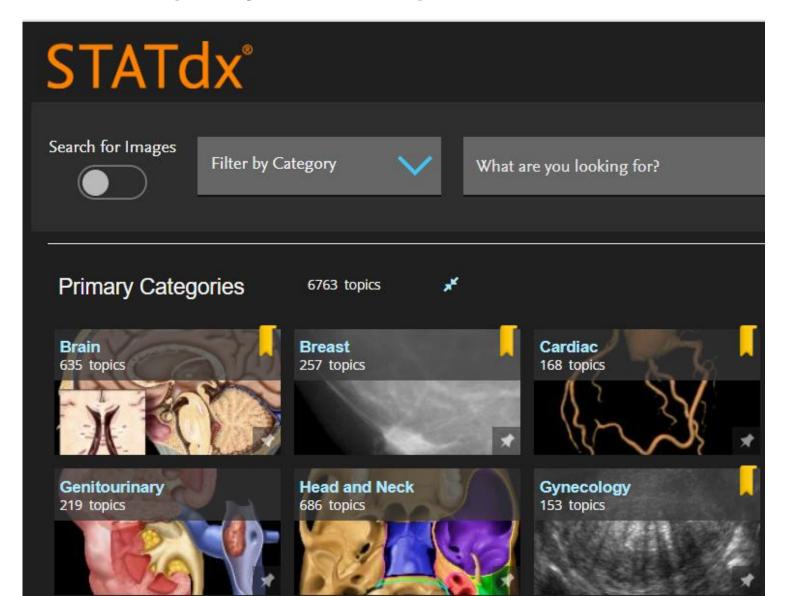


■ # ♥ 134% -

Browsing: Diagnosis / DDx / Anatomy and filter by type



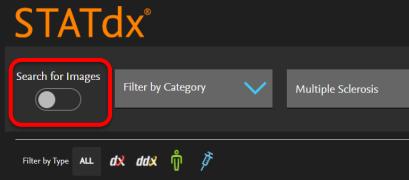
Bookmarks (The yellow icon)

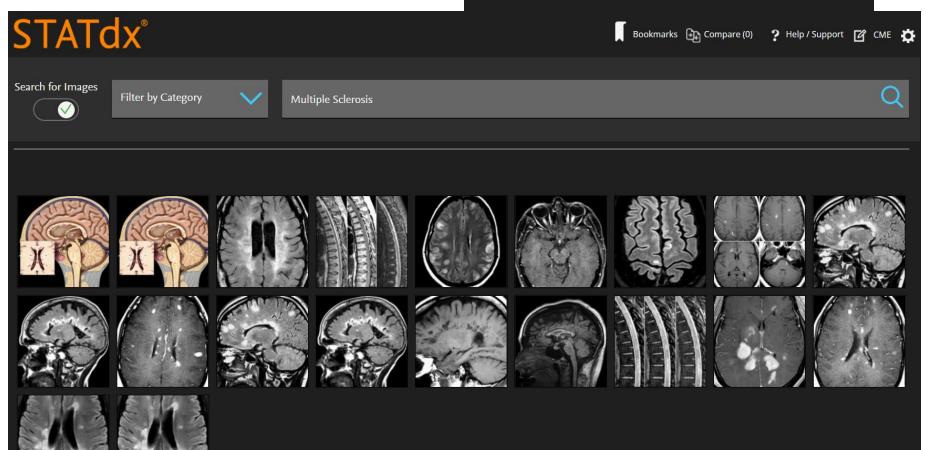


Recently viewed / Updated

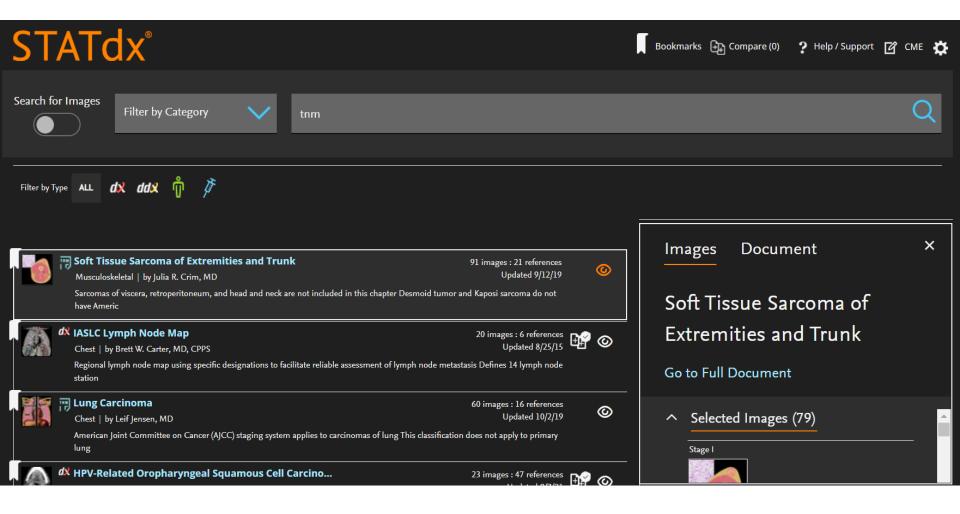
Recently Viewed Today **Multiple Sclerosis** Brain > Diagnosis > Pathology-B... Today Trigeminal Neuralgia Brain > Differential Diagnosis > C... 04/22/22 **Amorphous Calcifications** Breast > Lesion Imaging Charact... 04/22/22 Cardiac Calcifications Cardiac > Differential Diagnosis ... 04/21/22 Management of Incidenta... RADTools > Tables > Chest Tools... 04/21/22 **Bone Length Charts** Obstetrics > Diagnosis > Muscul... 04/21/22 PI-RADS Lexicon and Us... Genitourinary > Diagnosis > Pros... 04/21/22 Cardiac Lymphoma Chest > Diagnosis > Cardiovasc... 04/21/22 Heart Chest > Anatomy > Heart > 04/21/22 Native and Transplant Ki... Genitourinary > Procedures > Na...

Searching only for images

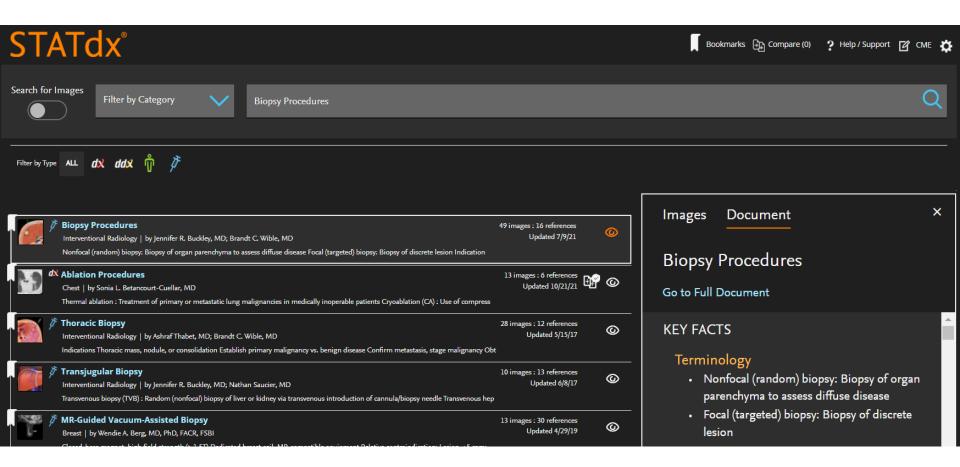




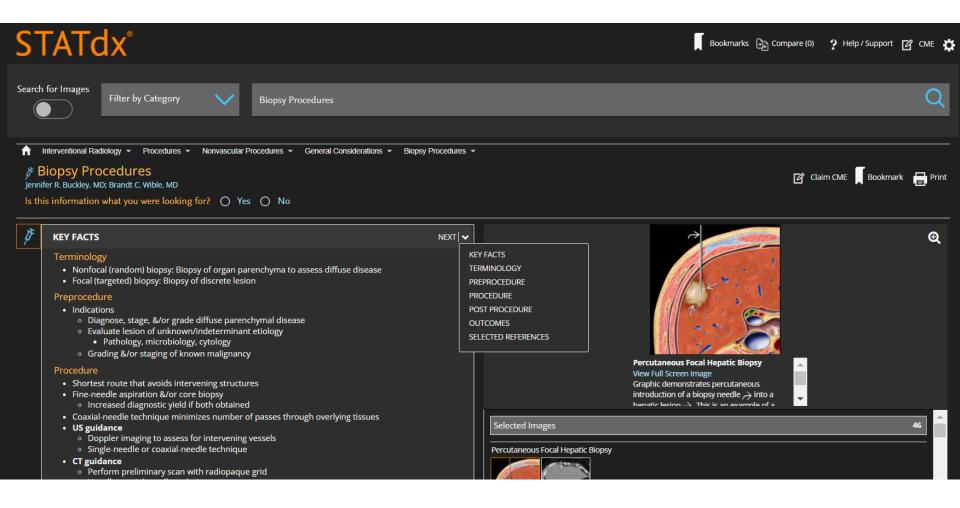
TNM Classification of Malignant Tumors (TNM)



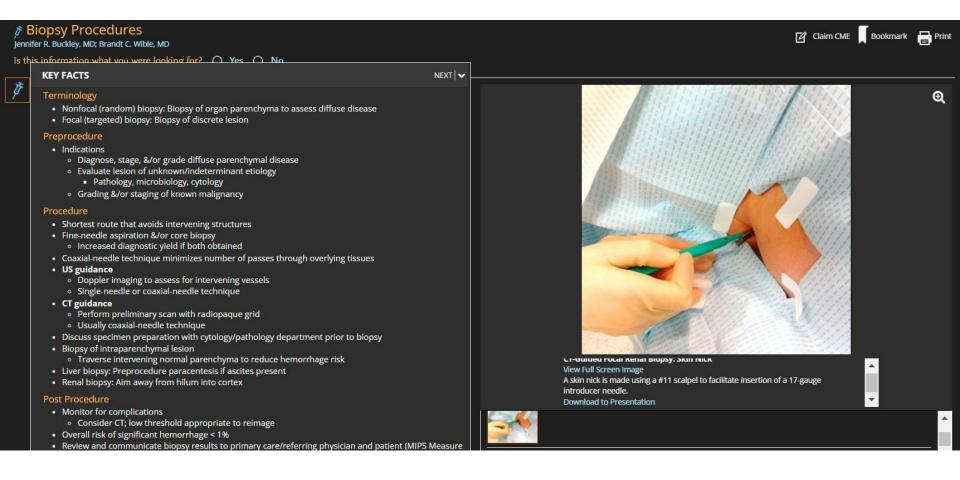
Biopsy procedure with preview on the right



Overview with same Table of Content / Structure



Images of the procedure itself



Bone Age Calculator

Bone Age Calculator

Background Information

Assessment of a patient's bone age is frequently performed in children and adolescents in order to evaluate patient growth and to diagnose and manage certain pediatric syndromes or endocrine disorders. Advanced or delayed skeletal maturation can be determined using radiographic imaging of the hand and correlated with clinical course. This calculator provides a means of comparing the chronological age of a child to a standard atlas of skeletal development. Standardized values were compiled from studies compiled by Greulich and Pyle in which they assessed gender-specific skeletal age. These studies compiled mean skeletal ages for successive chronological ages by using between 68 and 201 subjects per age group.

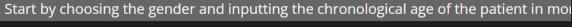
Clues for assessment of hand-films:

- Infancy or early childhood: presence or absence of certain carpal/epiphyseal ossification centers -Puberty to late adolescence: degree of fusion of epiphyses with their shafts
- · Assess bones in a regular sequence: distal ends or radius/ulna, carpals, metacarpals, phalanges
- Carpals should also be studied in regular order: capitate, hamate, triquetral, lunate, scaphoid, trapezium, trapezoid, pisiform

Caclulating bone age:

- Step 1: Choose the gender of the patient and input the chronological age in months.
- Step 2: Scroll through a radiographic filmstrip of gender-specific images to find the closest match to your patient's radiograph.
- Step 3: The bone age and standard deviation of your study will be calculated and graphed on a skeletal age chart using standar
- Step 4: A blank standardized chart may be download (pdf) and placed in a patient's file to chronicle the progression during subs

Male Chart Female Chart



Male: ● Female: ●

Chronological age: years months

Continue to next step...

References



Image that is most like your patient's study: 14 years
Patient Age: 168 months (14 years, 0 months)
Gender: Female

Bone age: 168 months
Standard deviation: 0

View as PDF Back