

## SREE BALAJI MEDICAL COLLEGE AND HOSPITAL CHROMEPET, CHENNAI.



## Imaging signs in brain, head, neck and spine - Newer and the lesser known ones

## Venkatraman Indiran MD, DNB

Professor, Department of Radio-diagnosis, Sree Balaji Medical College and Hospital,

Bharath Institute of Higher Education and Research (BIHER),

Chennai, Tamilnadu, India

Copyright © 2020 by Venkatraman Indiran
Copyright © 2020 by Vehkatraman munan
All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the publisher, except in the case of brief quotations embodied in critical reviews and certain other non commercial uses permitted by copyright law.

Nakamura T. MR imaging criteria for the prediction of ex nodal spread of metastatic cancer in the neck. AJNR Am Neuroradiol. 2008;29(7):1355-1359.  doi:10.3174/ajnr.A1088  Wedge Sign  Most diffuse infiltrations of the lacrimal gland are seen as moulding of the gland around the globe in the extraconal and intraconal spaces  But lacrimal gland masses may also be seen as extraconal pyramidal soft tissue extending along the lateral wall or the roof which is called the "wedge sign". There is no intracon extension due to limitation by the intermuscular septum a Tenon's space  Presence of a lateral or superior "wedge sign" is associate with pathologies that require urgent incisional biopsy such		spread.
Nakamura T. MR imaging criteria for the prediction of ex nodal spread of metastatic cancer in the neck. AJNR Am. Neuroradiol. 2008;29(7):1355-1359.  doi:10.3174/ajnr.A1088  Wedge Sign  Most diffuse infiltrations of the lacrimal gland are seen as moulding of the gland around the globe in the extraconal and intraconal spaces  But lacrimal gland masses may also be seen as extraconal pyramidal soft tissue extending along the lateral wall or the roof which is called the "wedge sign". There is no intracon extension due to limitation by the intermuscular septum a Tenon's space  Presence of a lateral or superior "wedge sign" is associate with pathologies that require urgent incisional biopsy such as lacrimal carcinoma, fast-growing lymphomas and seve dacryoadenitis  Reference:  Lorenzano D, Rose GE. The "Wedge Sign": An Imaging Sign for Aggressive Lacrimal Gland Disease.  Ophthalmology. 2017;124(7):1081-1083.		Reference:
nodal spread of metastatic cancer in the neck. AJNR Am. Neuroradiol. 2008;29(7):1355-1359. doi:10.3174/ajnr.A1088  Wedge Sign  Most diffuse infiltrations of the lacrimal gland are seen as moulding of the gland around the globe in the extraconal and intraconal spaces  But lacrimal gland masses may also be seen as extraconal pyramidal soft tissue extending along the lateral wall or the roof which is called the "wedge sign". There is no intraco extension due to limitation by the intermuscular septum a Tenon's space  Presence of a lateral or superior "wedge sign" is associate with pathologies that require urgent incisional biopsy such as lacrimal carcinoma, fast-growing lymphomas and seve dacryoadenitis  Reference:  Lorenzano D, Rose GE. The "Wedge Sign": An Imaging Sign for Aggressive Lacrimal Gland Disease. Ophthalmology. 2017;124(7):1081-1083.		Kimura Y, Sumi M, Sakihama N, Tanaka F, Takahashi H,
Neuroradiol. 2008;29(7):1355-1359. doi:10.3174/ajnr.A1088  Most diffuse infiltrations of the lacrimal gland are seen as moulding of the gland around the globe in the extraconal and intraconal spaces  But lacrimal gland masses may also be seen as extraconal pyramidal soft tissue extending along the lateral wall or the roof which is called the "wedge sign". There is no intraco extension due to limitation by the intermuscular septum a Tenon's space  Presence of a lateral or superior "wedge sign" is associate with pathologies that require urgent incisional biopsy such as lacrimal carcinoma, fast-growing lymphomas and seve dacryoadenitis  Reference:  Lorenzano D, Rose GE. The "Wedge Sign": An Imaging Sign for Aggressive Lacrimal Gland Disease. Ophthalmology. 2017;124(7):1081-1083.		Nakamura T. MR imaging criteria for the prediction of extra
doi:10.3174/ajnr.A1088  Most diffuse infiltrations of the lacrimal gland are seen as moulding of the gland around the globe in the extraconal and intraconal spaces  But lacrimal gland masses may also be seen as extraconal pyramidal soft tissue extending along the lateral wall or the roof which is called the "wedge sign". There is no intracon extension due to limitation by the intermuscular septum a Tenon's space  Presence of a lateral or superior "wedge sign" is associate with pathologies that require urgent incisional biopsy such as lacrimal carcinoma, fast-growing lymphomas and seve dacryoadenitis  Reference:  Lorenzano D, Rose GE. The "Wedge Sign": An Imaging Sign for Aggressive Lacrimal Gland Disease.  Ophthalmology. 2017;124(7):1081-1083.		nodal spread of metastatic cancer in the neck. AJNR Am J
Wedge Sign  Most diffuse infiltrations of the lacrimal gland are seen as moulding of the gland around the globe in the extraconal and intraconal spaces  But lacrimal gland masses may also be seen as extraconal pyramidal soft tissue extending along the lateral wall or the roof which is called the "wedge sign". There is no intracon extension due to limitation by the intermuscular septum a Tenon's space  Presence of a lateral or superior "wedge sign" is associated with pathologies that require urgent incisional biopsy such as lacrimal carcinoma, fast-growing lymphomas and seven dacryoadenitis  Reference:  Lorenzano D, Rose GE. The "Wedge Sign": An Imaging Sign for Aggressive Lacrimal Gland Disease.  Ophthalmology. 2017;124(7):1081-1083.		Neuroradiol. 2008;29(7):1355-1359.
moulding of the gland around the globe in the extraconal and intraconal spaces  But lacrimal gland masses may also be seen as extraconal pyramidal soft tissue extending along the lateral wall or the roof which is called the "wedge sign". There is no intracon extension due to limitation by the intermuscular septum a Tenon's space  Presence of a lateral or superior "wedge sign" is associated with pathologies that require urgent incisional biopsy such as lacrimal carcinoma, fast-growing lymphomas and seven dacryoadenitis  Reference:  Lorenzano D, Rose GE. The "Wedge Sign": An Imaging Sign for Aggressive Lacrimal Gland Disease.  Ophthalmology. 2017;124(7):1081-1083.		doi:10.3174/ajnr.A1088
and intraconal spaces  But lacrimal gland masses may also be seen as extraconal pyramidal soft tissue extending along the lateral wall or the roof which is called the "wedge sign". There is no intracon extension due to limitation by the intermuscular septum a Tenon's space  Presence of a lateral or superior "wedge sign" is associated with pathologies that require urgent incisional biopsy such as lacrimal carcinoma, fast-growing lymphomas and seven dacryoadenitis  Reference:  Lorenzano D, Rose GE. The "Wedge Sign": An Imaging Sign for Aggressive Lacrimal Gland Disease.  Ophthalmology. 2017;124(7):1081-1083.	Wedge Sign	Most diffuse infiltrations of the lacrimal gland are seen as
But lacrimal gland masses may also be seen as extraconal pyramidal soft tissue extending along the lateral wall or the roof which is called the "wedge sign". There is no intracon extension due to limitation by the intermuscular septum a Tenon's space  Presence of a lateral or superior "wedge sign" is associated with pathologies that require urgent incisional biopsy such as lacrimal carcinoma, fast-growing lymphomas and seven dacryoadenitis  Reference:  Lorenzano D, Rose GE. The "Wedge Sign": An Imaging Sign for Aggressive Lacrimal Gland Disease.  Ophthalmology. 2017;124(7):1081-1083.		moulding of the gland around the globe in the extraconal
pyramidal soft tissue extending along the lateral wall or the roof which is called the "wedge sign". There is no intrace extension due to limitation by the intermuscular septum a Tenon's space  Presence of a lateral or superior "wedge sign" is associate with pathologies that require urgent incisional biopsy such as lacrimal carcinoma, fast-growing lymphomas and seve dacryoadenitis  Reference:  Lorenzano D, Rose GE. The "Wedge Sign": An Imaging Sign for Aggressive Lacrimal Gland Disease.  Ophthalmology. 2017;124(7):1081-1083.		and intraconal spaces
roof which is called the "wedge sign". There is no intraco extension due to limitation by the intermuscular septum a Tenon's space  Presence of a lateral or superior "wedge sign" is associate with pathologies that require urgent incisional biopsy such as lacrimal carcinoma, fast-growing lymphomas and seve dacryoadenitis  Reference:  Lorenzano D, Rose GE. The "Wedge Sign": An Imaging Sign for Aggressive Lacrimal Gland Disease.  Ophthalmology. 2017;124(7):1081-1083.		But lacrimal gland masses may also be seen as extraconal
extension due to limitation by the intermuscular septum a Tenon's space  Presence of a lateral or superior "wedge sign" is associate with pathologies that require urgent incisional biopsy such as lacrimal carcinoma, fast-growing lymphomas and seve dacryoadenitis  Reference:  Lorenzano D, Rose GE. The "Wedge Sign": An Imaging Sign for Aggressive Lacrimal Gland Disease. Ophthalmology. 2017;124(7):1081-1083.		pyramidal soft tissue extending along the lateral wall or the
Tenon's space  Presence of a lateral or superior "wedge sign" is associate with pathologies that require urgent incisional biopsy such as lacrimal carcinoma, fast-growing lymphomas and seve dacryoadenitis  Reference:  Lorenzano D, Rose GE. The "Wedge Sign": An Imaging Sign for Aggressive Lacrimal Gland Disease.  Ophthalmology. 2017;124(7):1081-1083.		roof which is called the "wedge sign". There is no intraconal
Presence of a lateral or superior "wedge sign" is associated with pathologies that require urgent incisional biopsy such as lacrimal carcinoma, fast-growing lymphomas and seve dacryoadenitis  Reference:  Lorenzano D, Rose GE. The "Wedge Sign": An Imaging Sign for Aggressive Lacrimal Gland Disease.  Ophthalmology. 2017;124(7):1081-1083.		extension due to limitation by the intermuscular septum and
with pathologies that require urgent incisional biopsy such as lacrimal carcinoma, fast-growing lymphomas and seve dacryoadenitis  Reference:  Lorenzano D, Rose GE. The "Wedge Sign": An Imaging Sign for Aggressive Lacrimal Gland Disease.  Ophthalmology. 2017;124(7):1081-1083.		Tenon's space
as lacrimal carcinoma, fast-growing lymphomas and seve dacryoadenitis  Reference:  Lorenzano D, Rose GE. The "Wedge Sign": An Imaging Sign for Aggressive Lacrimal Gland Disease.  Ophthalmology. 2017;124(7):1081-1083.		Presence of a lateral or superior "wedge sign" is associated
dacryoadenitis  Reference:  Lorenzano D, Rose GE. The "Wedge Sign": An Imaging Sign for Aggressive Lacrimal Gland Disease.  Ophthalmology. 2017;124(7):1081-1083.		with pathologies that require urgent incisional biopsy such
Reference:  Lorenzano D, Rose GE. The "Wedge Sign": An Imaging Sign for Aggressive Lacrimal Gland Disease.  Ophthalmology. 2017;124(7):1081-1083.		as lacrimal carcinoma, fast-growing lymphomas and severe
Lorenzano D, Rose GE. The "Wedge Sign": An Imaging Sign for Aggressive Lacrimal Gland Disease.  Ophthalmology. 2017;124(7):1081-1083.		dacryoadenitis
Sign for Aggressive Lacrimal Gland Disease.  Ophthalmology. 2017;124(7):1081-1083.		Reference:
Ophthalmology. 2017;124(7):1081-1083.		Lorenzano D, Rose GE. The "Wedge Sign": An Imaging
		Sign for Aggressive Lacrimal Gland Disease.
doi:10.1016/j.ophtha.2017.03.004		Ophthalmology. 2017;124(7):1081-1083.
		doi:10.1016/j.ophtha.2017.03.004
Wine bottle sign Better known as 'steeple sign'	Wine bottle sign	Better known as 'steeple sign'

Tapering of the upper trachea on a frontal chest radiograph
due to uniform narrowing of the subglottic airway seen in
croup (acute laryngotracheobronchitis) is called as steeple
sign or white wine bottle sign.
Reference:
Pediatric Radiology: The Requisites. Blickman JG, Parker
BR, Barnes PD 2009 Elsevier 3rd ed. Pp16-17.