

NTP Nonneoplastic Lesion Atlas

Lymph Node – Erythrophagocytosis

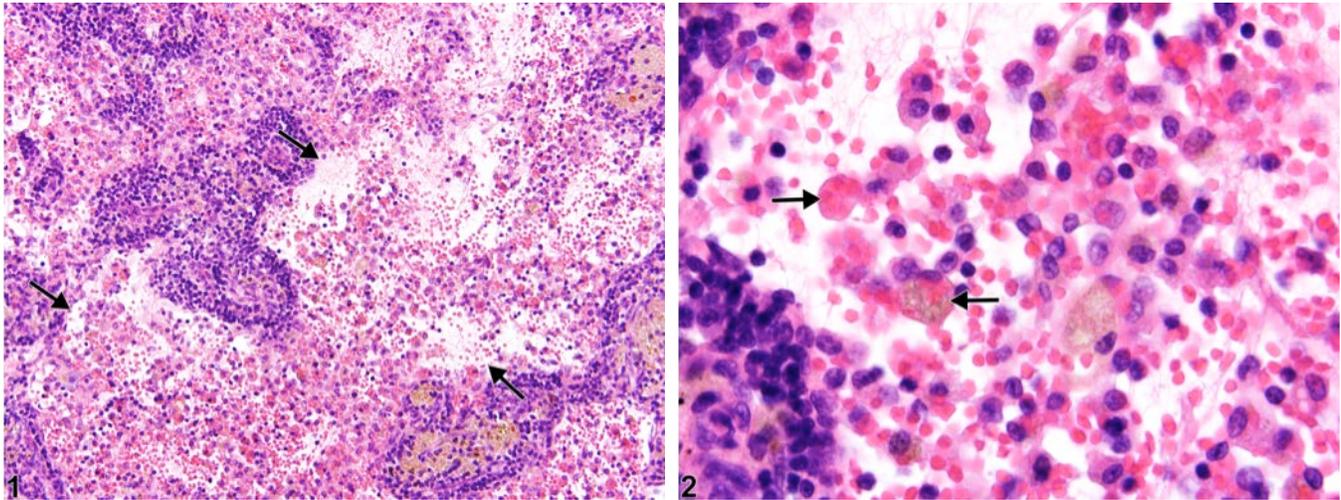
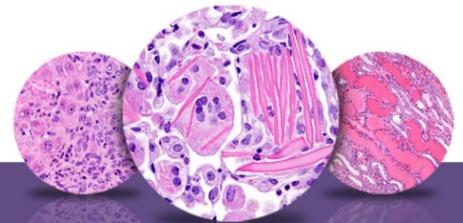


Figure Legend: **Figure 1** Lymph node - Erythrophagocytosis in a female F344/N rat from a chronic study. Numerous macrophages with intracytoplasmic erythrocytes (arrows) and extravasated erythrocytes fill the medullary sinus of this lymph node. **Figure 2** Lymph node - Erythrophagocytosis in a female F344/N rat from a chronic study (higher magnification of Figure 1). Macrophages within the medullary sinus contain variable numbers of erythrocytes and/or pigment within their cytoplasm (arrows).

Comment: Erythrophagocytosis in lymph nodes consists of macrophages within sinuses that phagocytize extravasated, old, and/or damaged erythrocytes (Figure 1 and Figure 2, arrows). Erythrophagocytosis does not occur under normal conditions and is most often associated with lymph node hemorrhage, congestion, sinus erythrocytosis, and autoimmune and other immunopathologic conditions.

Recommendation: When erythrophagocytosis is present within lymph nodes, it should be diagnosed and graded.



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References:

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Full Text: <https://www.toxpath.org/ssdnc/HematopoieticNonprolifRat.pdf>

National Toxicology Program. 2011. NTP TR-561. Toxicology and Carcinogenesis Studies of Tetralin (CAS No. 119-64-2) in F344/N Rats and B6C3F1 Mice (Inhalation Studies). NTP, Research Triangle Park, NC.

Abstract: <http://ntp.niehs.nih.gov/go/33575>

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