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B cells and B cell directed therapies in rheumatoid arthritis: towards personalized medicine

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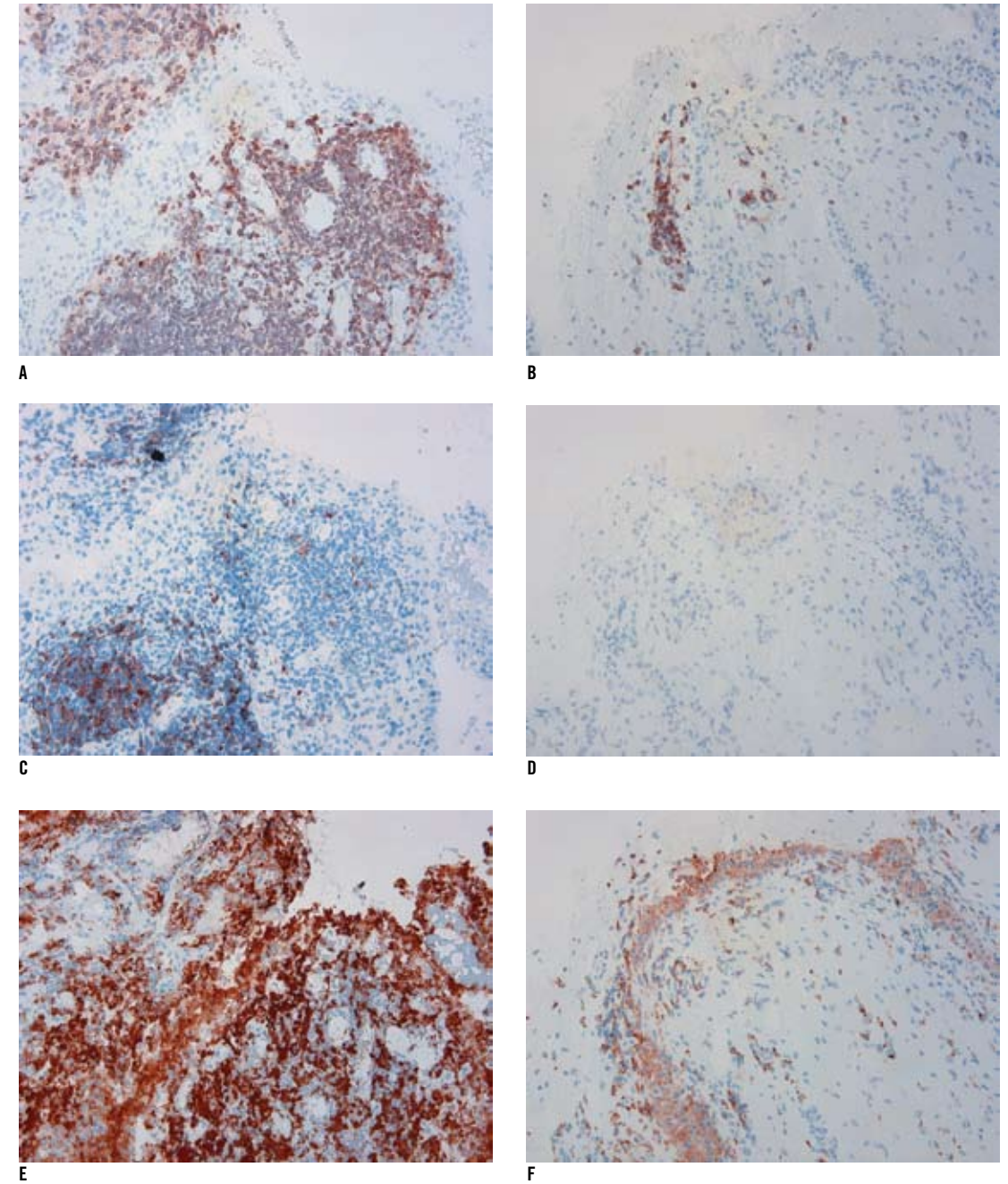
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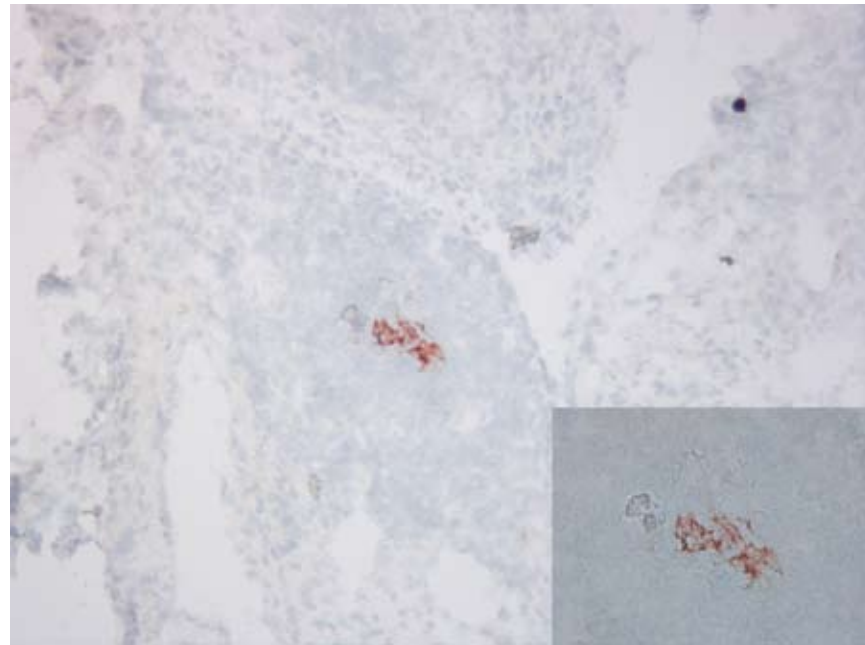
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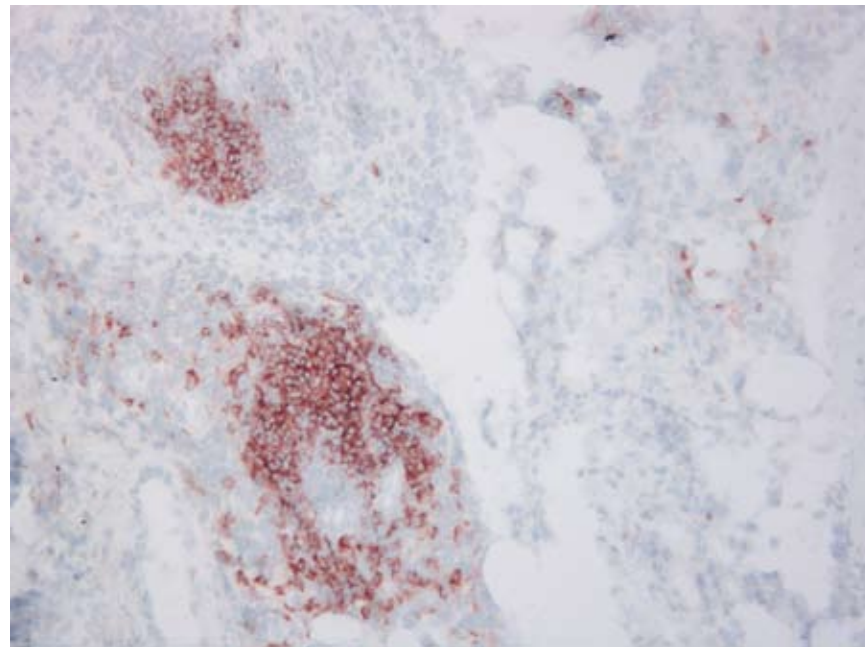
COLOR PRINT SECTION



CHAPTER 2 FIGURE 1 Different patterns of lymphocyte infiltration in representative synovial tissue specimens from patients with rheumatoid arthritis. In some patients, mixed infiltration of aggregates of T and B cells was present (A and C), together with a high number of infiltrating macrophages (C). In other patients, there was diffuse or scarce infiltration of CD3+ T cells (B), and few or no B cells (D), while macrophages were the dominant infiltrating cell population (F). (Original magnification x 20.)

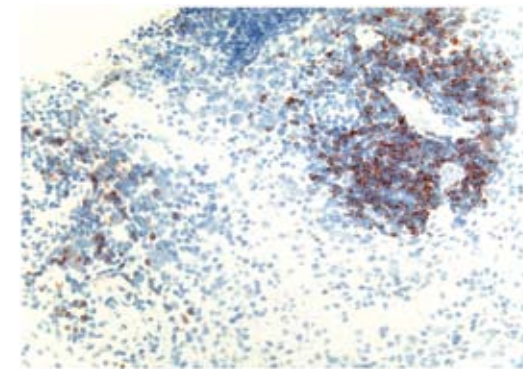


A

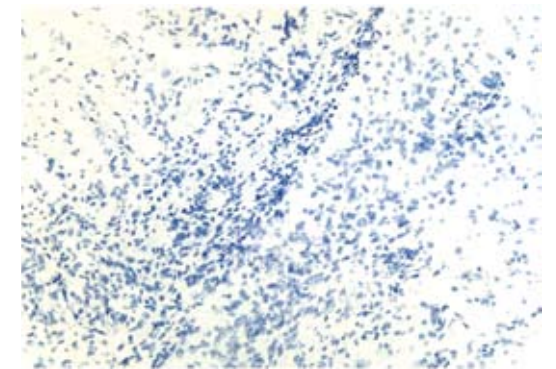


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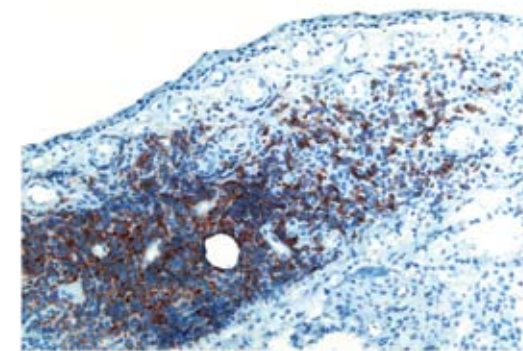
CHAPTER 2 FIGURE 2. Follicular dendritic cells (FDCs) expressing the CD21 long isoform (A), detected in CD22+ B cell-containing lymphocyte aggregates (B). Synovial tissue samples from 8% of the rheumatoid arthritis patients contained lymphocyte aggregates with CD22+ B cells surrounding FDCs. (Original magnification x 20; x 40 in inset.)



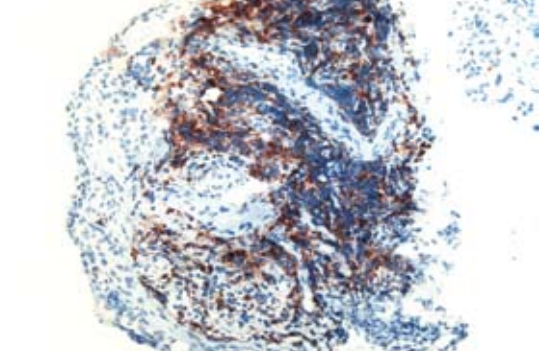
A



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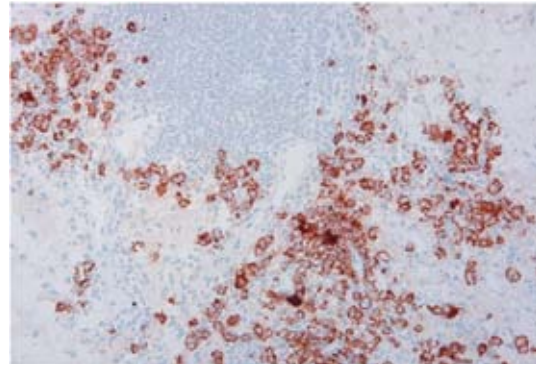


C

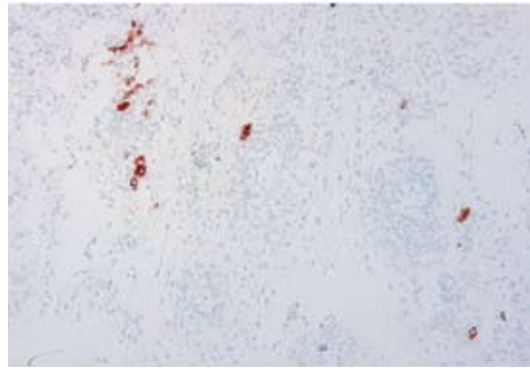


D

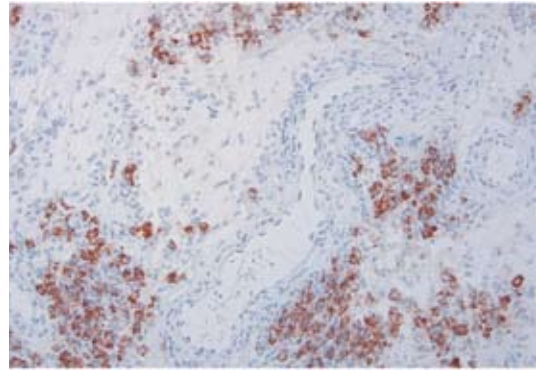
CHAPTER 4 FIGURE 2. Change in the number of CD22+ B cells in representative serial synovial tissue samples obtained from 2 different rheumatoid arthritis patients before (A and C) and 4 weeks after (B and D) initiation of rituximab treatment. Different patterns of depletion were identified. In some patients, there was complete B cell depletion (compare A and B), while in other patients, few B cells were depleted (compare C and D). (Original magnification x 20.)



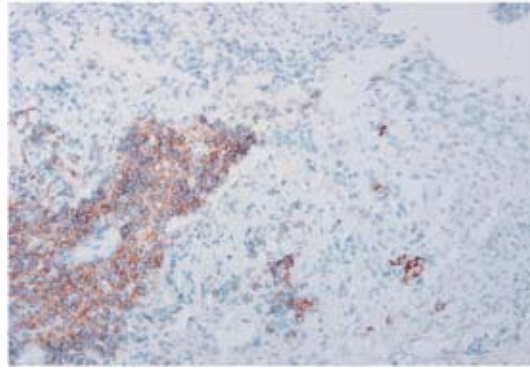
A



B



C



D

CHAPTER 6 FIGURE 5. Change in the number of CD138+ plasma cells in representative serial synovial tissue samples obtained at 4 (A and C) and 16 (B and D) weeks after initiation of rituximab treatment. Different patterns of response were identified. In patients who responded to treatment we observed a reduction in plasma cells between 4 and 16 weeks after treatment (compare A and B), while in patients who did not fulfil the response criteria, plasma cells persisted (compare C and D) (Original magnification x20). Linear regression analysis revealed a significant relationship between the decrease in plasma cell numbers and the decrease in 28-joint Disease Activity Score (DAS28) at week 24.