Chemokines in disease - biology and clinical research

Humana Press - Disease activity, cytokines, chemokines and the risk of incident diabetes in rheumatoid arthritis — Research Nebraska

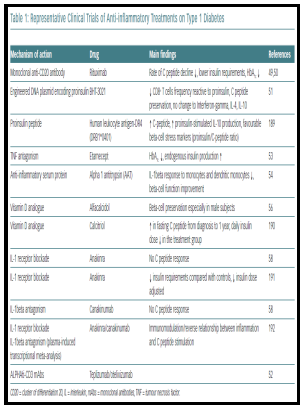

Table 1: Representative Clinical Trials of Anti-inflammatory Treatments on Type 1 Diabetes

Mechanism of action	Drug	Main findings	References
Monoclonal anti-CD20 antibody	Rituximab	Rate of C-peptide decline ↓, lower insulin requirements; HbA, ↓	49 50
Engineered DNA plasmid encoding proinsulin (BHT-3021		↓ CD8+ T cells frequency reactive to proinsulin; C-peptide preservation; no change to interferon-gamma, IL-4, IL-10	51
Proinsulin peptide	Human leukocyte antigen-DR4 (HLA-DR4*0401)	↑ C-peptide; ↑ proinsulin-stimulated IL-10 production; favourable beta-cell stress markers (proinsulin:C-peptide ratio)	189
TNF-α antagonism	Etanercept	HbA, ↓; endogenous insulin production ↑	53
Anti-inflammatory serum protein	Alpha-1 antitrypsin (AAT)	IL-1beta response to monocytes and dendritic monocytes ↓, beta-cell function improvement	54
Vitamin D analogue	Alfacalcidol	Beta-cell preservation especially in male subjects	56
Vitamin D analogue	Calcitriol	↑ in fasting C-peptide from diagnosis to 1 year; daily insulin dose ↓ in the treatment group	190
IL-1 receptor blockade	Anakinra	No C-peptide response	58
IL-1 receptor blockade	Anakinra	↓ insulin requirements compared with controls; ↓ insulin dose adjusted	191
IL-1beta antagonism	Canakinumab	No C-peptide response	59
IL-1 receptor blockade IL-1beta antagonism (plasma-induced monocytosis and meta-analysis)	Anakinra/canakinumab	Immunomodulation/reverse relationship between inflammation and C-peptide stimulation	192
ALP/HBA-CD3 mAbs	Teplizumab/otelixizumab		52

CD3 = cluster of differentiation 3; IL = interleukin; mAbs = monoclonal antibodies; TNF = tumor necrosis factor

Description: -
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Receptors, Chemokine
Chemokines
Chemokines -- Physiological effect
Chemokines -- PathophysiologyChemokines in disease - biology and clinical research
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Chemokines and Heart Disease: A Network Connecting Cardiovascular Biology to Immune and Autonomic Nervous Systems

The further testing of these changes is likely to facilitate our understanding of the underlying mechanism responsible for ocular damage in Sjögren's syndrome. Today, it is clear that chemokines affect all aspects of immunology and even many unrelated fields, such as tissue development and tumor cell metastasis. The actions of chemokines are controlled by their respective receptors, which, when activated, can uncouple from associated G proteins, internalize, and degrade the ligand.

Chemokines in disease : biology and clinical research (Book, 1999) [perssongroup.materialsproject.org]

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Mutation Analysis of Receptors and Relationship of Receptor Usage to Disease, Emma J. CCR5 + and CXCR3 + T cells are increased in multiple sclerosis and their ligands MIP-α and IP-10 are expressed in demyelinating brain lesions. The third, 5P14-RANTES, induces significant levels of

CCR5 internalization without detectable signaling activity.

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IL-8 in Animal Models of Disease, Akihisa Harada and Kouji Matsushima. Incident DM was defined based on validated algorithms using diagnostic codes and medications. The Role of ELR+-CXC Chemokines in Wound Healing and Melanoma Biology, Ann Richmond, Jing Luan, Jianguo Du, and Hamid Haghnegahdar.

CHEMOKINES IN DISEASE BIOLOGY AND CLINICAL RESEARCH 1999 Edition, 9780896037038, HÉBERT CAROLINE A., SPRINGER

Thus, a consistent increase in MIF levels during TRT therapy suggests its possible association with increased inflammatory activity. Disease activity and clinical assessments occur longitudinally as part of clinical care. Zhou N, Luo Z, Luo J, Fan X, Cayabyab M, Hiraoka M, Liu D, Han X, Pesavento J, Dong CZ, Wang Y, An J, Kaji H, Sodroski JG, Huang Z.

Chemokines in Disease

Two representative SMM-chemokines, RCP168 and RCP188, selective for CXCR4 and CCR5, respectively, showed similar or significantly enhanced binding affinities for their corresponding target receptors. ROS, adenosine, and complement activate mast cells to produce TNF and histamine, leading to leukocyte recruitment from the vessels. Hébert Series Title Copyright 1999 Publisher Humana Press Copyright Holder Springer Science+Business Media New York eBook ISBN 978-1-59259-706-2 DOI 10.

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