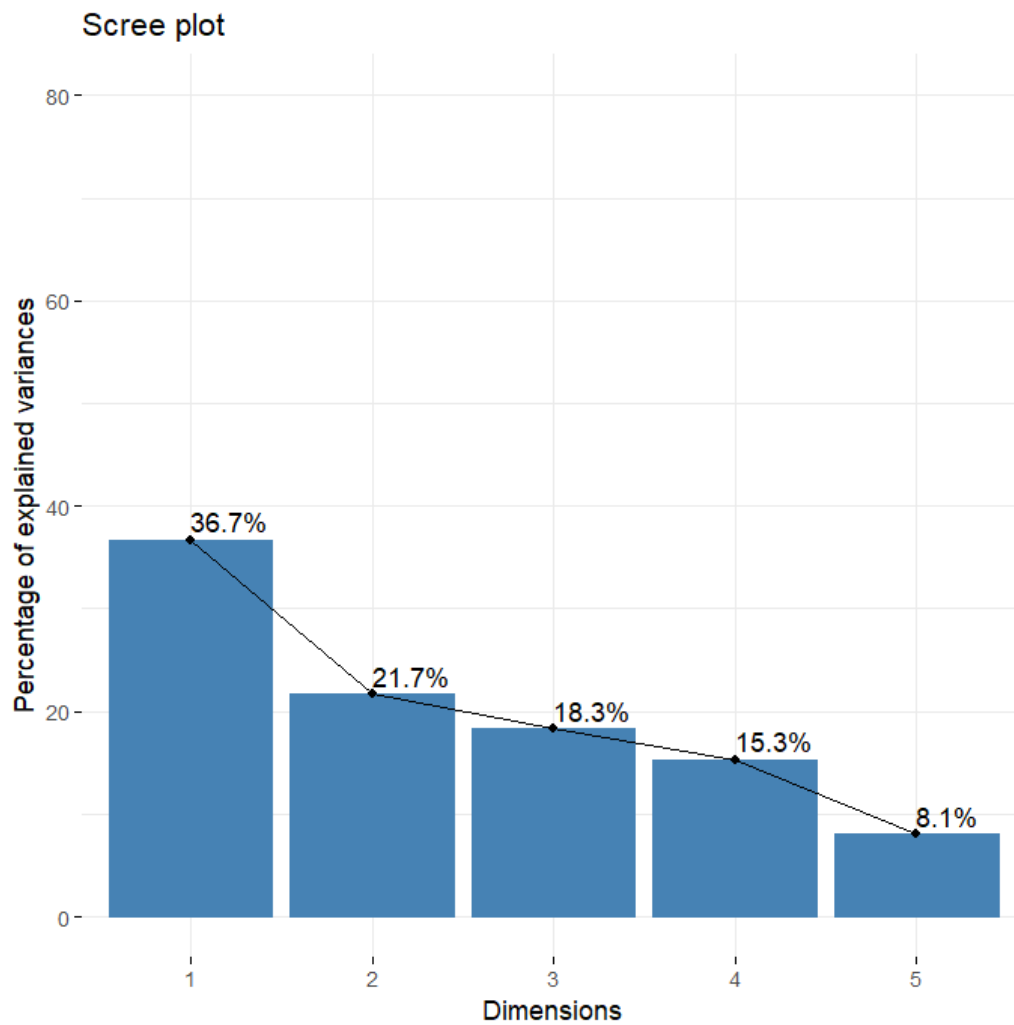


Supplementary Table 1. Overview of the biomarkers used for endotyping analysis.

<b>Biomarker</b>	<b>Description of the biomarker</b>	<b>Implication</b>
<b>C1M</b>	MMP-2/9/13-degraded type I collagen	Interstitial matrix degradation
<b>C2M</b>	MMP (multiple) -degraded type II collagen	Cartilage degradation
<b>T2CM</b>	MMP-1/-13-degraded type II collagen	Cartilage degradation
<b>C3M</b>	MMP-9-degraded type III collagen	Interstitial matrix degradation
<b>C4M</b>	MMP (multiple)-degraded type IV collagen	Primarily basal lamina disruption
<b>C6M</b>	MMP-2/9-degraded type VI collagen	Microfibril degradation
<b>CPa9-HNE</b>	HNE-mediated degradation of calprotectin	Neutrophil activity and neutrophil extracellular trap formation, NETosis
<b>CRPM</b>	MMP-1/8-degraded C-reactive protein	Inflammation
<b>PROM</b>	MMP-1/13-cleaved prolargin	Synovial membrane inflammation
<b>VICM</b>	Citrullinated and MMP-degraded vimentin	Inflammation
<b>PRO-C2</b>	Type II collagen N-terminal pro-peptide	Cartilage formation
<b>PRO-C3</b>	Type II collagen N-terminal propeptide	Fibrosis
<b>PRO-C4</b>	Type IV 7S domain collagen	Basement membrane turnover
<b>PRO-C6</b>	Type VI collagen, alpha-3 chain, C5 domain	Fibrosis

Abbreviations: C1M, metalloproteinase (MMP)-2/9/13-degraded type I collagen; C2M, MMP(multiple)-degraded type II collagen; T2CM, MMP-1/13-mediated degradation of type II collagen; C3M, MMP-degraded type III collagen; C4M, MMP(multiple)-degraded type IV collagen; C6M, MMP-2/9-degraded type VI collagen; CPa9-HNE, HNE-mediated degradation of calprotectin; NET, neutrophil extracellular trap; CRP, C-reactive protein; CRPM, CRP metabolite; PROM, MMP-1 and MMP-13-mediated degradation of prolargin; VICM, citrullinated and MMP-degraded vimentin; PRO-C2, pro-peptide of type II collagen; PRO-C3, pro-peptide of type III collagen; PRO-C4, type IV 7S domain collagen; PRO-C6, type VI alpha-3 chain collagen.



Supplementary Figure 1. Scree plot from the Principal Component Analysis (PCA) showing how much variation each principal component captures from the data.