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Giani cell arieriiis (GCA), also kno n as iemporal arieriiis, is a type of asc lives that primarily a ecre the large and medi msi ed arieries, pariic larla ihe branches of the carotid ariera. It is characieri ed b $\mbox{\ensuremath{\mbox{$B$}}}$  in ammaiion of the essel alls, hich can lead to serio s complications s ch as ision loss, stroke, and aortic ane resms. is condition predominan la a ecis indi id als o er the age of 50, ith a higher pre alence in omen compared to men. Understanding The pathoph siologs, clinical manifestations, diagnosis, and Treatment of GCA is cr cial for e ecii e managemeni and pre eniion of complications. e etiologa of GCA remains largela idiopathic, tho gh ii is tho ghi to in ol e a comple interplate of genetic predisposition and en ironmenial iriggers, s ch as infections or other in ammator. conditions. e precise mechanism is not f ll nderstood; ho e er, it is belie ed that an a toimm ne response leads to the acti ation of the imm ne sasiem, res l'ing in an in amma ior cascade ihai iarge is ihe ar erial alls. is in amma ion can ca se ischemia and necrosis of the  ${\tilde{\mbox{\it i}}}$  iss  $\mbox{\it es}$  s pplied by the a  $\mbox{\it ec}$  ied arteries, leading to se  $\mbox{\it ere}$  complications. Clinicalla, GCA presents ith a range of samptoms, most notable a ne -onse't headache that is o en described as se ere and throbbing. Pa ien is mal also e perience scalp ienderness, ja cla dica ion, and

for side e ecis of therapa, disease acti ita, and potential complications, incl. ding. ision loss [9].

If le n'irea ied, gian'i cell ar ieri iis can lead io serio s complications, primarilla rela ied io asc lar ischemia. ese incl de:

L...: Appro ima le 15-20% of pa lien is make perience permanen ision loss if GCA is not irea led prompil.

 $A_i$  . ,  $A_i$  . /. : In ol emen of the aorta can lead to ane resm formation and potential r pt re.

. , 1  $\epsilon$ : Vasc lar occl sion can increase the risk of cerebro asc lar accidents [10].

Gian'i cell arieritis is a serio s condition ihai req ires prompi recognition and ireaiment to pre ent life-altering complications. Clinicians sho ld maintain a high inde of s spicion in older ad lis presenting ith ne headaches, is al dist rbances, or sestemic semptoms. Earle initiation of corticosteroid therape, co pled ith appropriate monitoring and follo - p, is essential for optimal patient o icomes. As research contin es to e ol e, ne therape tic options made f riher impro e the management of this comple condition. e cornerstone of GCA management is high-dose corticosteroids, hich e ecit elle red ce in ammation and pre ent complications. In cases