Diagnostic criteria for Otitis media with ANCA associated vasculitis (OMAAV)

(A) At least one of the following clinical courses:

1. Intractable otitis media with effusion or granulation, which is resistant to

antibiotics and insertion of tympanostomy tube.

2. Progressive deterioration of bone conduction hearing levels.

(B) At least one of the following features:

1. Already diagnosed as AAV (GPA, MPA, EGPA) based on the involvement of

other organs.

2. Positivity for serum MPO- or PR3-ANCA.

3. Histopathology consistent with AAV, i.e., necrotizing granuloma with

infiltration of giant cells, necrotizing vasculitis predominantly affecting small

vessels with or without granulomatous extravascular inflammation.

4. At least one of the following accompanying signs/symptoms of AAV-related

involvement:

upper airway involvement other than ear, scleritis, lung, and kidney

involvement, ② facial palsy, ③ hypertrophic pachymeningitis, ④ multiple single

neuritis 5 improvement in symptoms/signs with administration of 0.5 to 1.0

mg/kg prednisolone (although recurrence occurs on discontinuation of

treatment).

(C) Differential diagnosis (the followings are excluded):

(1) cholesteatoma, (2) cholesterol granuloma, (3) eosinophilic otitis media, (4)

tuberculosis (5) malignant otitis externa, skull-base osteomyelitis, (6) neoplasms

(malignancy, inflammatory myofibroblastic tumor, etc.), (7) otitis media or inner

ear inflammation caused by autoimmune diseases and vasculitis other than AAV.

A diagnosis of OMAAV can be made when the above three criteria (A, B, C) are

fulfilled.

ANCA: anti-neutrophil cytoplasmic antibody

AAV: ANCA-associated vasculitis

GPA: granulomatousis with polyangiitis

MPA: microscopic polyangiitis

EGPA: eosinophilic granulomatousis with polyangiitis

PR3: proteinase 3

MPO: myeloperoxidase