

Description of supplemental audio files

Audio files exhibiting catathrenia noises for five patients.

Audio 1: Recurrent cycles of nocturnal moaning and groaning followed by sigh and deep breath.

Audio 2: Variable length of each cycle of moaning and groaning: (16 second cycle, recovery, then 6 second cycle).

Audio 3: Very short paroxysmal cycles of moaning, 1-3 seconds, with a seal-like barking or whimpering quality.

Audio 4: Long steady vocalization followed by moaning release.

Audio 5: Glottic groaning on expiration (catathrenia) with a quality that may be mistaken or confused for snoring (vibration of pharynx due to flow-limiting airway obstruction during inspiration).