

TABLE 2.4 CLASSIFICATION OF BINOCULAR, ACCOMMODATIVE, AND OCULAR MOTOR ANOMALIES

<p>Binocular anomalies</p> <p><i>Low AC/A ratio</i></p> <ol style="list-style-type: none"> 1. Orthophoria at distance—convergence insufficiency 2. Exophoria at distance—convergence insufficiency 3. Esophoria at distance—divergence insufficiency <p><i>Normal AC/A ratio</i></p> <ol style="list-style-type: none"> 1. Orthophoria at distance—fusional vergence dysfunction 2. Exophoria at distance—basic exophoria 3. Esophoria at distance—basic esophoria <p><i>High AC/A ratio</i></p> <ol style="list-style-type: none"> 1. Orthophoria at distance—convergence excess 2. Esophoria at distance—convergence excess 3. Exophoria at distance—divergence excess
<p>Vertical anomalies</p> <ol style="list-style-type: none"> 1. Right or left hyperphoria
<p>Accommodative anomalies</p> <ol style="list-style-type: none"> 1. Accommodative insufficiency 2. Ill-sustained accommodation 3. Accommodative excess 4. Accommodative infacility
<p>Ocular motor anomalies</p> <ol style="list-style-type: none"> 1. Ocular motor dysfunction

TABLE 2.5 COMMON ACCOMMODATIVE AND NONSTRABISMIC BINOCULAR VISION DISORDERS: SUMMARY OF DIAGNOSTIC FINDINGS

Condition	Cover Test	AC/A Ratio	NPC	Vergence Amplitude	Vergence Facility	Stereopsis	Accommodative Amplitude	Binocular Accommodative Facility	Monocular Accommodative Facility	NRA and PRA	Monocular Estimation Method
Accommodative insufficiency	No predictable pattern	Normal	Normal	BO blur at near may be low	Normal	Normal	Low	Fails –	Fails –	Low PRA	High
Ill-sustained accommodation	No predictable pattern	Normal	Normal	BO blur at near may be low	Normal	Normal	Normal	Fails –	Fails –	Low PRA	High
Accommodative excess	No predictable pattern	Normal	Normal	BI blur at near may be low	Normal	Normal	Normal	Fails +	Fails +	Low NRA	Low
Accommodative infacility	No predictable pattern	Normal	Normal	BO and BI blur at near may be low	Normal	Normal	Normal	Fails +/-	Fails +/-	Low NRA and PRA	Normal
Convergence insufficiency	Exo > N	Low	Receded	Low BO	Low BO	Normal	Normal	Fails +	Normal	Low NRA	Low
Convergence excess	Eso > N	High	Normal	Low BI	Low BI	Normal	Normal	Fails –	Normal	Low PRA	High
Fusional vergence dysfunction	Low eso or low exo	Normal	Normal	Low BO and BI	Low BO and BI	Normal	Normal	Fails +/-	Normal	Low NRA and PRA	Normal
Divergence insufficiency	Eso > D	Low	Normal	Low BI at D	Low BI at D	Normal	Normal	Normal	Normal	Normal	Normal
Divergence excess	Exo > D	High	Normal	Low BO at D Low BI at N	Low BO at D Low BI at N	Normal	Normal	Normal	Normal	Normal	Normal
Basic exophoria	Equal exo at D and N	Normal	Normal	Low BO at D and N	Low BO at D and N	Normal	Normal	Fails +	Normal	Low NRA	Low
Basic esophoria	Equal eso at D and N	Normal	Normal	Low BI at D and N	Low BI at D and N	Normal	Normal	Fails –	Normal	Low PRA	High

NPC, near point convergence; NRA, negative relative accommodation; PRA, positive relative accommodation; BO, base-out; BI, base-in; N, near; D, distance.