Accommodative Insufficiency

Low accommodative amplitude

Low AC/A

High Lag

Fails -2.00 (OD, OS, OU)

Low PRA

Eso at near

*Ill-sustained accomm. is milder case of AI

Accommodative Excess

High AC/A

Low Lag (or lead)

Fails +2.00 (OD, OS, OU)

Low NRA

Eso at near

*Accomm. Spasm is severe form of AE - spasm of near triad

Accommodative Infacility

Fails/difficulty +2.00 & -2.00 (OD, OS, OU)

Low NRA & PRA

Basic Eso

Eso similar dist & near

Reduced BI (dist & near)

Eso fd (dist & near)

Normal AC/A

Large Lag

Low PRA

Fail -2.00 OU

high tonic vergence

Convergence Excess

Near Eso > Dist Eso *high tonic vergence*

^Near Eso, Dist Ortho *normal tonic vergence*

Reduced NBI (DBI may be reduced), BI facility (near)

Eso fd

Moderate hyperopia

High AC/A

High Lag

Low PRA

Difficulty/fails -2.00 OU

Convergence Insufficiency

Near Exo > Dist Exo *low tonic vergence*

Dist Ortho, Near Exo *normal tonic vergence*

Reduced NPC

Reduced NBO and BO facility

Low AC/A

Small lag (or plano)

Low NRA

Difficulty +2.00 OU

Exo fd

Pseudo Convergence Insufficiency

Near Exo > Dist Exo

Receded NPC (noncom. & accom. target about the same)

Reduced PFV (or BO) at near

Reduced PRA

Fails -2.00 OU, Low OD, OS

Low amplitude

Large lag (>+1.00)

Additional plus at near may reduced exo &/or improve NPC

Really an underlying accom. insufficiency

Divergence Insufficiency

Dist Eso > Near Eso *high tonic vergence*

Reduced DBI, BI facility (dist)

Eso fd at distance

Low AC/A

Divergence Excess

Dist Exo > Near Exo *low tonic vergence* (tropia or phoria)

Normal or limited DBI (adequate DBO)

High AC/A

Basic Exophoria

Exo similar dist & near

Reduced BO (dist & near)

Possibly receded NPC

Redced BO facility (dist & near)

Exo fd (dist & near)

Normal AC/A

Small Lag

Low NRA

Fail +2.00 OU

low tonic vergence

Fusional Vergence Dysfunction (Bino Instability)

Reduced BI & BO dist and near

Reduced vergence facility (BO &/or BI at DV &/or NV)

NRA & PRA may be low

May fail/difficulty binocular accomm. facility

Normal AC/A

normal tonic vergence

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