

# Effect of position of near addition in an asymmetric refractive multifocal intraocular lens on quality of vision

Por: [de Wit, DW](#) (de Wit, Deric W.)<sup>[1,2]</sup>; [Diaz, J](#) (Diaz, Jose)<sup>[1,4]</sup>; [Moore, TCB](#) (Moore, Tara C. B.)<sup>[3]</sup>; [Moutari, S](#) (Moutari, Salissou)<sup>[1,2]</sup>; [Moore, JE](#) (Moore, Jonathan E.)<sup>[1,3]</sup>

**JOURNAL OF CATARACT AND REFRACTIVE SURGERY**

**Volumen:** 41

**Número:** 5

**Páginas:** 945-955

**DOI:** 10.1016/j.jcrs.2014.07.045

**Fecha de publicación:** MAY 2015

[Ver información de revista](#)

## Resumen

**PURPOSE:** To evaluate the impact of the position of an asymmetric multifocal near segment on visual quality.

**SETTING:** Cathedral Eye Clinic, Belfast, United Kingdom.

**DESIGN:** Retrospective comparative case series.

**METHODS:** Data from consecutive patients who had bilateral implantation of the Lentis Mplus LS-312 multifocal intraocular lens were divided into 2 groups. One group received inferonasal near-segment placement and the other, superotemporal near-segment placement. A +3.00 diopter (D) reading addition (add) was used in all eyes. The main outcome measures included uncorrected distance visual acuity (UDVA), uncorrected near visual acuity (UNVA), contrast sensitivity, and quality of vision. Follow-up was 3 months.

**RESULTS:** Patients ranged in age from 43 to 76 years. The inferonasal group comprised 80 eyes (40 patients) and the superotemporal group, 76 eyes (38 patients). The mean 3-month spherical equivalent was  $-0.11 \text{ D} \pm 0.49 \text{ (SD)}$  in the inferonasal group and  $-0.18 \pm 0.46 \text{ D}$  in the superotemporal group. The mean postoperative UDVA was  $0.14 \pm 0.10 \text{ logMAR}$  and  $0.18 \pm 0.15 \text{ logMAR}$ , respectively. The mean monocular UNVA was  $0.21 \pm 0.14 \text{ logRAD}$  and  $0.24 \pm 0.13 \text{ logRAD}$ , respectively. No significant differences were observed in the higher-order aberrations, total Strehl ratio (point-spread function), or modulation transfer function between the groups. Dysphotopic symptoms measured with a validated quality-of-vision questionnaire were not significantly different between groups.

**CONCLUSION:** Positioning of the near add did not significantly affect objective or subjective visual function parameters. (C) 2015 ASCRS and ESCRS

## Palabras clave

**KeyWords Plus:** [OPTICAL-PERFORMANCE](#); [VISUAL OUTCOMES](#); [CLINICAL-OUTCOMES](#); [IMPLANTATION](#); [DISSATISFACTION](#); [EYE](#)

## Información del autor

**Dirección para petición de copias:** Moore, JE (autor para petición de copias)

Univ Ulster, Cathedral Eye Clin, Belfast Campus, 25-51 York St, Belfast BT15 1ED, Antrim, North Ireland.

## Direcciones:

[ 1 ] Univ Ulster, Cathedral Eye Clin, Belfast BT15 1ED, Antrim, North Ireland

[ 2 ] Queens Univ Belfast, Ctr Stat Sci & Operat Res, Belfast BT7 1NN, Antrim, North Ireland

[ 3 ] Univ Ulster, Sch Biomed Sci, Coleraine BT52 1SA, Londonderry, North Ireland

[ 4 ] Univ Chile, Dept Ophthalmol, Santiago, Chile

**Direcciones de correo electrónico:** [johnnymoorebal@gmail.com](mailto:johnnymoorebal@gmail.com)

## Editorial

ELSEVIER SCIENCE INC, 360 PARK AVE SOUTH, NEW YORK, NY 10010-1710 USA

## Categorías / Clasificación

**Áreas de investigación:** Ophthalmology; Surgery

**Categorías de Web of Science:** Ophthalmology; Surgery

## Información del documento

**Tipo de documento:** Article

**Idioma:** English

**Número de acceso:** [WOS:000357147700008](#)

**ID de PubMed:** 26049829

**ISSN:** 0886-3350

**eISSN:** 1873-4502

## Información de la revista

- **Impact Factor:** [Journal Citation Reports®](#)

## Otra información

**Número IDS:** CL7JG

**Referencias citadas en la Colección principal de Web of Science:** 29

**Veces citado en la Colección principal de Web of Science:** 0