DICOM Correction Proposal

STATUS	Assigned
Date of Last Update	2024/08/19
Person Assigned	Harry Solomon
Submitter Name	Patrick A. Nast <patrick.nast@zeiss.com>
Submission Date	2024/08/16

Correction Number CP-2434	
Log Summary: Add new IOL calculation formulas to Part16 CID 4236	
Name of Standard PS3.16 2024c	
Rationale for Correction: CID 4236 "IOL Calculation Formula" defines formulas used to calculate Intraocular Lenses (IOL). During the last years, new formulas have been defined and used to improve the patient's vision after a cataract surgery, which are not covered by current specification of CID 4236. The scope of this proposal is to add code definitions for these new formulas to CID 4236.	
Correction Wording:	

In PS3.16, Annex B.1 modify CID 4236 to add codes for new IOL calculation formulas

CID 4236 IOL Calculation Formula

Resources:

HTML | FHIR JSON | FHIR XML | IHE SVS XML

Keyword:

IOLCalculationFormula

FHIR Keyword:

dicom-cid-4236-IOLCalculationFormula

Type:

Extensible

Version:

~~20190124~~**<date-of-final-text>**

UID:

1.2.840.10008.6.1.882

Table CID 4236. IOL Calculation Formula

Coding Scheme Designator	Code Value	Code Meaning
DCM	111760	Haigis
DCM	111761	Haigis-L
DCM	111762	Holladay 1
DCM	111763	Holladay 2
DCM	111764	Hoffer Q
DCM	111765	Olsen
DCM	111766	SRKII
DCM	111767	SRK-T
DCM	111860	Haigis Toric
DCM	111861	Haigis-L Toric
DCM	111862	Barrett Toric
DCM	111863	Barrett True-K
DCM	111864	Barrett True-K Toric
DCM	111865	Barrett Universal II
DCM	**aaaaaa**	**Kane**
DCM	**bbbbbb**	**Kane Toric**
DCM	**cccccc**	**Kane Keratoconus**
DCM	**dddddd**	**Barrett Keratoconus**
DCM	**eeeeee**	**Barrett Rx**
DCM	**ffffff**	**EVO**

In PS3.16, Annex D add to Table D-1

Code Value	Code Meaning	Definition	Notes
...	...	...	...
aaaaaa	**Kane**	The Kane IOL calculation formula. Connell BJ, Kane JX. Comparison of the Kane formula with existing formulas for intraocular lens power selection. BMJ Open Ophthalmol. 2019 Apr 1;4(1):e000251. doi: 10.1136/bmjophth-2018-000251. PMID: 31179396; PMCID: PMC6528763.	
bbbbbb	**Kane Toric**	The Kane Toric IOL calculation formula. Kane JX, Connell B. A Comparison of the Accuracy of 6 Modern Toric Intraocular Lens Formulas. Ophthalmology. 2020 Nov;127(11):1472-1486. doi: 10.1016/j.ophtha.2020.04.039. Epub 2020 May 1. PMID: 32371252.	
cccccc	**Kane Keratoconus**	The Kane Keratoconus IOL calculation formula. Kane JX, Connell B, Yip H, McAlister JC,	

Code Value	Code Meaning	Definition	Notes
		Beckingsale P, Snibson GR, Chan E. Accuracy of Intraocular Lens Power Formulas Modified for Patients with Keratoconus. Ophthalmology. 2020 Aug;127(8):1037-1042. doi: 10.1016/j.ophtha.2020.02.008. Epub 2020 Apr 9. PMID: 32279887.	
ddddd	**Barrett Keratoconus**	The Barrett Keratoconus IOL calculation formula. Ton, Yokrat MD; Barrett, Graham D. MD, FRANZCO; Kleinmann, Guy MD; Levy, Adi MHA; Assia, Ehud I. MD. Toric intraocular lens power calculation in cataract patients with keratoconus. Journal of Cataract & Refractive Surgery 47(11):p 1389-1397, November 2021. | doi: 10.1097/j.jcrs.0000000000000638	
eeeeee	**Barrett Rx**	The Barrett Rx IOL calculation formula. Barrett GD. The Barrett Rx formula: predicting IOL power based on refraction after cataract surgery. Barcelona. Spain: European Society of Cataract & Refractive Surgeons; 2015.	
ffffff	**EVO**	The Emmetropia Verifying Optical (EVO) IOL calculation formula. Yeo, T.K. (2024). Emmetropia Verifying Optical (EVO) Formula. In: Aramberri, J., Hoffer, K.J., Olsen, T., Savini, G., Shammas, H.J. (eds) Intraocular Lens Calculations. Essentials in Ophthalmology. Springer, Cham. doi:10.1007/978-3-031-50666-6_40	
...	...	...	...