

DEPARTMENT OF OPHTHALMOLOGY

Email.ID: ophthalmology@sдумc.ac.in.

Telephone Extension Number: 312

Introduction – Our department of Ophthalmology offers quality out-patient and in-patient services. The OPD has necessary instruments like Auto refractometer, Keratometer, A-scan, slit lamp bio microscopes, ultrasound B-scan, Fundus camera and Diode laser, Yag laser, Humphrey Field Analyser etc. We have sub- specialties like Cornea, Glaucoma, and Squint etc. We have a dedicated eye bank. Outreach programmes like free cataract surgery, diabetic retinopathy and school children screening camps done regularly.

Vision statement / Mission statement /Objectives

Vision statement

- To render the highest degree of visual enhancement to the needy
- To provide an optimal improvement in the visual status of an individual through the use of the latest technology and techniques and delivering the same in a compassionate manner

Mission statement

- Usage of newer technology.
- Quality research.
- Quality training to the students.

Excellent quality care to the needy

Objectives:

1. Increasing pass percentage of UG's to 100%.
2. Improving faculty performance.
3. Improving surgical skills of post graduates.

Brief History of the Department: Department of Ophthalmology came into existence in 1989, as a part of undergraduate curriculum. Dr.G.Madava Rao, Professor of Ophthalmology, as the first Head of the department, has been responsible for the development of curriculum and clinical services right from its inception .Subsequently Prof. Shamsundar and Prof. D.Krishnamurthy, contributed significantly in framing the objectives and directions for the improvement. Prof. Narendra.P.Datti, played a key role in the development of PG Programme and now he is Head of the department.

Update of HOD list:

Sl.No	Name of HOD	From	To
1	Dr.G.Madavarao	16.08.1989	01.08.1995
2	Dr.Shamsundar	05.10.1995	16.12.1997
3	Dr.Krishna Murthy.D	17.12.1997	31.10.2009

4	Dr.Narendra.P.Datti	1.11.2009	31.10.2010
5	Dr.Krishna Murthy.D	01.11.2010	31.01.2012
6	Dr.K.Kanthamani	01.02.2012	31.05.2012
7	Dr.Narendra.P.Datti	01.06.2012	Till date

Faculty – to update as on 1st Dec 2014:

<u>OPHTHALMOLOGY</u>					
1	Dr.Narendra P.Datti	MBBS, MS	Professor & HOD	21-07-1963	04-11-1991
2	Dr.K.Kanthamani	MBBS, MS	Professor	10-07-1958	04-03-1992
3	Dr.D.Krishnamurthy	MBBS, MS	Professor	01-07-1946	17-12-2012
4	Dr.Venugopal.S *	MBBS, MS	Asst. Professor	11-09-1980	19-12-2012
5	Dr. Sangeetha.T*	MBBS, MS	Asst. Professor	31-03-1976	30-05-2014
6	Dr.Usha.B.R	MBBS, DNB	Sr.Resident/Lecturer	24-06-1976	01-08-2014
7	Dr.H.R.Manjunath *	MBBS, DOMS	Sr.Resident	03-11-1980	28-11-2012
8	Dr.Iffath Zia *	MBBS, DOMS	Sr.Resident	12-10-1985	01-01-2013
9	Dr.Rashmi.N.R	MBBS	Jr.Resident	03-07-1987	14-05-2012
10	Dr.Shalini	MBBS	Jr.Resident	06-19-1981	21-05-2012
11	Dr. Mahajan Ashwini Ravindra	MBBS	Jr.Resident	04-21-1987	30-05-2012
12	Dr. Subhratanu Chakrabarty	MBBS	Jr.Resident	12-15-1983	28-05-2012
13	Dr.Preeti Biradar	MBBS	Jr.Resident	22-09-1988	24-05-2013
14	Dr.Dilip Kumar.K	MBBS	Jr.Resident	15-01-1988	24-05-2013
15	Dr.Jyotsna Sharma	MBBS	Jr.Resident	20-12-1985	17-07-2013
16	Dr.Snehalatha.G	MBBS	Jr.Resident	24-07-1988	20-07-2013
17	Dr.Mukul.B.M	MBBS	Jr.Resident	18-08-1987	28-05-2013
18	Dr.Sugaranjini.G	MBBS	Jr.Resident	04-11-1987	29-05-2013

19	Dr.Bhavya Reddy	MBBS	Jr.Resident	08-05-1990	19-05-2014
20	Dr.Dildar Singh	MBBS	Jr.Resident	16-08-1988	02-05-2014
21	Dr.Prashanth.B	MBBS	Jr.Resident	27-04-1988	07-05-2014
22	Dr.Shrey Maheshwari	MBBS	Jr.Resident	18-02-1988	29-05-2014
23	Dr.Preethi.B	MBBS	Jr.Resident	10-12-1988	28-05-2014
24	Dr.Shalini.S	MBBS	Jr.Resident	23-08-1987	29-05-2014

Profile of each faculty:

Sl. No	Name & Address	Designation	Qualification	KMC Number	Phone No.	Experience	Areas of Interest in teaching	Research/Publications/Projects
1	DR.NARENDRA P DATTI Department of Ophthalmology	Professor & HOD	MBBS, MS	25679	9845526258	26 Years,8 Months and 10 days	Cataract ,Medical retina and Glaucoma	P-12
2	Dr.K.Kanthamani STAFF QUARTERS,	Professor & HOU	MBBS, MS	24397	9886416261	25years, 11months, 4days	Cataract, Cornea	P-07

	SDUMC CAMPUS, TAMAKA, KOLAR							
3	Dr. Krishnamurthy.D Department of Ophthalmology	Professor	MBBS, MS	A-5173	9945922730	30yrs, 11months, 19days	Squint, Neuro Ophthalm ology	P-07
4	Dr.Usha.B.R	Sr. Resident/ Lecturer	MBBS, DNB, MBA	60295	998098382 9/ drushamah esh@gmail .com	1 Year 3 Month	General Ophthal mology	

Programmes offered:

- M.S. (Ophthalmology): 3 years. (4 seats/year),
- Diploma in Ophthalmology: 2 years (2 seats/year)
- Community Outreach Programmes:

Free cataract surgery eye camps are conducted weekly twice. Cataract surgeries are done at base hospital freely. Ophthalmic operation theatre has state of the art Carl-Zeiss microscopes with Phacoemulsification instruments. Various types of both intra-ocular as well as extra-ocular surgical procedures are routinely performed. Diabetic Retinopathy screening camps are conducted once a month, and the patients needing further evaluation and/or treatment are referred to the base hospital and treated free of cost. Monthly once we are conducting School Health Programme in which School children are screened for Ocular disorders. Weekly Retinopathy of Prematurity (ROP) screening at our hospital in collaboration with Narayana Nethralaya, Bangalore.

Facilities:

Our department offers quality out-patient and in-patient services to patients through a team of dedicated specialized ophthalmologists. Our OPD works on all weekdays from 8.30 A.M. To 4.30 P.M. And emergency care is available round the clock. The OPD has all the necessary instruments like Autorefractometer, Keratometer, A-scan, slit lamp biomicroscopes etc. We have various sub-specialties like Cornea, Retina, Glaucoma, Squint etc. We have a dedicated eye bank which is actively involved in procuring eyeballs and involved in corneal transplantation surgeries. Department of Medical retina is well established with ultrasound B-scan, Fundus camera and Diode laser facility. YAG LASER is also available. Glaucoma clinic has latest Humphrey Field Analyzer along with other necessary equipments.

Publications and Research (for the last 5 years)

Publications published.

Sn	Research paper title	Authors Names	Journal Details (In Vancouver Style Only)
1	“Retinopathy of prematurity in a rural neonatal intensive care unit in south India- a prospective study”	Dr.Bhavana H C, Dr.Anand Vinekar, Dr.Narendra P Datti, Dr.Pushphalatha K, Dr.Sherin B, Dr.Susheela, Dr.Krishnamurthy D, Dr.Bhujang Shetty.	Journal details: Indian Journal of Paeditrics, July 2012, 79(7); 911-5.
2	“Assessment of avoidable blindness using the RAAB methodology”	Dr.B.S.Guruprasad, Dr.Narendra.P.Datti, Dr.B.G.Ranganath, Dr.B.R.Shamanna”.	North American Journal of Medical Sciences, September 2012, vol 4, issue 9, p389-93.
3	“Methicillin Resistant Staphylococcus Aureus Orbital cellulitis in a 9 day old neonate:”	Dr.Tanuja Abhilash, Dr.Prashanth Krishnappa, Dr.Joyita Guha, Dr.Tejal Jayaram, Dr.Krishnamurthy D	International Journal of Current Scientific Research.2011;1(4):194-197
4	“Unilateral Proptosis: A presenting feature of fibrous	Dr.Prashanth Krishnappa, Dr.Tanuja Abhilash, Dr.Amol Bansal, Dr.K.Kanthamani	International Journal of Current Scientific Research.2011;1(4):191-193
5	“Abnormal Vasculogenesis in Retinopathy of Prematurity: A clino-pathological”	Dr.Prashanth Krishnappa, Dr.Bhavana.H.C, Dr.Shireen.R, Dr.Narendra.P.Datti	Journal details: Anatomica Karnataka, volume 6,(1)page12-15(2012)
6	“Evaluation of visual outcome in proliferative diabetic retinopathy after pan retinalphotocoagulation”	Dr.Narendra.P.Datti, Dr.Tanuja Abhilash, Dr.Balachandra.	Journal details: Journal of clinical & Biomedical sciences 2011; 1(3):98-104.
7	“Study of glutathione & ascorbic acid in cases of diabetic retinopathy by”	Dr.Prabhavathi.K. Dr.Ashakiran.S, Dr.Narendra.P.Datti, Dr.Krishnamurthy.N, Dr.Dayananda.C.D., Dr.Mamatha.K., Dr.Sumathi M.E.	Journal of clinical & Biomedical sciences 2011; 1(1):13-19.
8	“Naevus of Ota with open angle glaucoma”: A case report by	Dr.Tanuja Abhilash, Dr.K.Kanthamani.	Journal of clinical & Biomedical sciences
9	“Study of incidence, clinical	Dr Neeraj Gupta,	Journal of clinical and

	staging and risk factors of retinopathy of prematurity in rural area”	Dr.K.Kanthamani,	biomedical sciences.
10	“Changing scenario of cataract blindness in Kolar district, Karnataka, South India”.	Dr.B.S.Guruprasad, Dr.Narendra.P.Datti, Dr.B.G.Ranganath, Dr.B.R.Shamanna.	The utility of rapid assessment in reviving programs Ophthalmic Epidemiology 2013;20(2):89-95
11	”Barriers to the uptake of cataract surgery in a Rural population of south Karnataka, India.”	Dr.Guruprasad.B.S., Dr.Narendra.P.Datti, Dr.D.Krishnamurthy, Dr.Ranganath.B.G., Dr.Shamanna.B.R, Dr.Sangeetha.T.	Journal details: IJCRR June 2013/Vol.05(12):77-82.
12	“Efficacy and Safety of Subtenon’s and Peribulbar Anaesthesia in Manual Small Incision Cataract Surgery”	Dr.Narendra.P.Datti, Dr.Kanthamani Krishnappa, Dr.B.S.Guruprasad, Dr.PrashanthKrishnappa, Dr.Joyita Guha, Dr.Amol Bansal.	Journal details: Journal of clinical and Biomedical sciences March 2012;3(1):2231-4180.
13	Comparison between grid laser alone&grid laser wit intravitreal triamcinolone acetone in diabetic macular edema	Narendra.P.Datti, Prashanth Kunal Kishore Indranath Prasad	Journal of clinical and Biomedical sciences.
14	Prevalence of ocular manifestation in patients hospitalized in dengue patients.	Narendra P Datti Raghavendra Prasad Beeregowda Prashanth Mithila Trupti	Journal of evolution of medical and dental sciences.
15	Comparative study of monofocal and multifocal IOL’s in a rural area	Narendra.P.Datti Prashanth K Kanthamani K Krishnamurthy D Sangeetha T	International journal of ophthalmology.
16	Dorzolamide therapy in x linked retinoschisis as evaluated by spectral domain optical coherence tomography	Dr.Nagesha CK Dr Narendra Datti Dr Sugaranjini	Journal of evolution of medical and dental sciences
17	.Effectiveness of mitomycin-c application as adjunct in surgeries for recurrent pterygium – A meta analysis.	Dr.Narendra Datti Dr.Nagesha CK Dr.Rashmi Dr.Ashwini	IJCRR

18	Prevalence of retinal microvascular abnormalities in patients with chronic kidney disease among diabetic population	Dr.Narendra.P.Datti, Dr.Kanthamani Dr.BN Raghavendra Prasad Dr.D Krishnamurthy Dr.Manasa Korthiwada	IJCRR 2013;5(23):13-20
19	Evaluation of visual acuity and quality of life after cataract surgery in kolar district	Dr.Kanthamani Dr.Narendra.P.Datti, Dr.Prashanth Dr.Deepankar Dr.Nagesha CK	Journal of evolution of medical and dental sciences 2014;3:495-500.
20	Subjective satisfaction and evaluation of glare and halos after multifocal iol implantation	Dr.Narendra.P.Datti, Dr.Kanthamani Dr.Tanushree	Journal of evolution of medical and dental sciences 2014;3:456-463.
21	Congenital total eversion of upper eyelids in a newborn with Down's syndrome- Case Report	Nagesha C. Ashish K. Deb Chanchal Poddar	International Journal of Research in Health Sciences. Jan-Mar 2014;2: (1)
22	Diabetic retinopathy:How aware are the physicians?	Dr.Narendra Datti Dr.Ashwini Dr. Subhratanu Dr. Shalini Dr.Rashmi	Journal of evolution of medical and dental sciences.2014;3(20):5575-5580
23	Study of association of fundal changes and fetal outcomes in pre- eclampsia	Dr. Mithila R. Dr. Narendra P. Datti Dr.Gomathy E. Dr. Krishnamurthy D.	Journal of evolution of medical and dental sciences.2014;3(21):5894-5901
24	Comparison of phaco-nucleotomy techniques in management of pseudoexfoliation syndrome (Original Article)	Narendra P Datti Kanthamani K Prashanth K Tejal S J Prarthana Karnath	Journal of Clinical and Biomedical Sciences 2013; 3(3): 117-121
25	Optical coherence tomography: Boon to mankind (Letter to the Editor)	D Krishnamurthy	Journal of Clinical and Biomedical Sciences 2013; 3(3): 152-153 (Indian journal)
26	Behavior of serum uric acid and lipid profile in relation to glycemic status in proliferative and non-proliferative diabetic retinopathy	Ashakiran S N Krishnamurthy Navin S Sandeep Patil*	Current Neurobiology 2010; 2(1): 57-61

Publications under preparation

1. "Comparitive Study of Monofocal and Multifocal IOLs in Rural Area" authors by Dr.Narendra.P.Datti, Dr.K.Prashanth, Dr.K.Kanthamani, Dr.D.Krishnamurthy, Dr.Sangeetha.T.
2. "Subjective satisfaction and evaluation of glare and haloes after multifocal IOL implantation" by authors Dr.Narendra.P.Datti, Dr.Tanushree.
3. "Prevalence of ocular manifestations in patients hospitalized with dengue fever" by authors Dr.Narendra.P.Datti, Dr.B.N.Raghavendra Prasad, Dr.Beeregowda.Y.C. Dr.Mithila.R, Dr.Trupti Gowda.
4. "Evaluation of Visual Acuity and Quality of Life after cataract surgery in Kolar district" authors by Dr.Narendra.P.Datti, Dr.K.Kanthamani, Dr.D.Krishnamurthy, Dr.K.Prashanth, Dr.Shubbartanu Chakarberty
5. "Prevalence of retinal microvascular abnormalities in patients with chronic kidney disease among diabetic population" by authors Dr.K.Kanthamani, Dr.Narendra.P.Datti, Dr.B.N.Raghavendra Prasad, Dr.Manasa Korthiwada.

Research projects completed:

Sn	Investigators Names (Principal Investigator name first)	Title of the Research Project
1	Dr.Narendra P Datti, Dr. B S Guruprasad	Analysis of undesired visual effects of Multi focal IOL's after phacoemulsification
2	Dr. Kanthamani Dr. Narendra P. Datti Dr. Prashanth K Dr. Krishnamurthy D.	Evaluation of visual acuity & Quality of life after cataract surgery in kolar district.
3	Dr.Guruprasad Dr.Narendra.p Dr.Krishnamurthy	Assesment of avoidable blindness using rapid assessment of avoidable blindness
4	Dr krishnamurthy	Prevalence of ocular disorders in school children in rural kolar-
5	Dr Kanthamani	Prevalence of retinal microvascular abnormalities in patients with chronic kidney disease in diabetic population –
6	– Dr Narendra.P.Datti	Prevalence of ocular manifestation in patients hospitalized with dengue fever
7	-Dr. Mithila R	Study Of Fundal Changes In Pre-Eclampsia
8	Dr.Narendra Datti	Diabetic retinopathy- How aware are the physicians?-
9	Dr B.S Guruprasad	Analysis of barriers to uptake of cataract surgery in rural population –
10	B.T.Prasanna Kamath ¹ B.S.Guru Prasad ² R.Deepthi ¹ ,C.Muninarayana ¹	Prevalence of ocular morbidity among school going children (6-15 years) in rural area of Karnataka, South India (Research Article)

11	Dr. Manasa Korthiwada	A Comparative Study Of Mitomycin-C (MMC) Versus Conjunctival Autograft (CAG) following Pterygium Excision -
12	Dr. Tanushree V	Comparative Study of Clear Corneal Incision versus Scleral Tunnel in Phacoemulsification –

Ongoing Research projects:

sn	Investigators Names (Principal Investigators Name First)	Project Title	Funded / Non- funded If funded, by which Agency
1	DR.NARENDRA P DATTI Dr K Kanthamani Dr Prashanth K	Study of phacocapsulotomy in preventing anterior capsular tear extension in phacoemulsification of white intumescent cataract in comparison with needle aspiration	Funded
2	DR.NARENDRA P DATTI Dr K Kanthamani Dr Prashanth K	Comparative study of intraoperative complications of capsular tension ring implantation versus no implantation in phacoemulsification of cataracts associated with pseudoexfoliation syndrome	Funded
3	DR.NARENDRA P DATTI Dr Prashanth K	Comparative study of visual clinical outcome and subjective satisfaction in toric versus nontoric iol implantation followed by phacoemulsification cataract surgery	Funded
4	DR.NARENDRA P DATTI Dr K Kanthamani	Efficacy and safety of a mydriatic cocktail with a wick for preoperative and intraoperative mydriasis in cataract surgery- a prospective randomized controlled trial.	Funded
5	Dr Narendra.P.Datti	Visual performance and subjective satisfaction after multi focal IOL implantation in rural population –	Non-funded
6	Dr Narendra.P.Datti	Comparison of subtennons with peribulbar anaesthesia for manual small incision cataract surgery in eye camps –	Non-funded
7	Dr Kanthamani	Co-relation of visual field defect to optic disc damage in POAG –	Non-funded
8	– Dr Narendra.P.Datti	Comparison of topical,subtennons and peribulbar anaesthesia in phacoemulsification	Non-funded
9	Dr Kanthamani	Study of visual outcome and postoperative complications of cataract	Non-funded

		surgery in eye camps-	
10	Dr Narendra.P.Datti	Study of visual outcome and complication of scleral fixated PCIOL implantation-	Non-funded
11	Dr.Narendra.P.Datti	Comparitive study of Grid laser alone and grid laser with IVTA in diabetic macularity-	Non-funded
12	-Dr. Ashwini Ravindra Mahajan	Profile Of Ocular Trauma – A Retrospective Analysis	Non-funded
13	Dr. Shalini	Chronic Irritation Of Eyes – Where And Why -	Non-funded
14	Dr Rashmi N R	Role of Efficient Field Workers In Prevention Of Blindness Through Community Outreach Programmes -	Non-funded
15	Dr Kanthamani	One year study of complications of cataract surgery in pseudoexfoliation syndrome in rural areas(eye camps)-	Non-funded
16	Dr Narendra Datti	Comparison of phaco-nucleotomy techniques in management of pseudoexfoliation syndrome –	Non-funded
17	Dr Narendra Datti	Evaluation of Visual Outcome in Proliferative Diabetic Retinopathy After Panretinal Photocoagulation.	Non-funded
18			
19			

Dissertation – completed and ongoing:

Sl. No.	Name	Title	Status
1	Dr. Ashwini Mahajan.	Comparitive study of iris claw lens and SFIOL in terms of visual outcome and complications	ongoing
2	Dr. Shalini	Risk factors and management of posterior capsular rent in manual small incision cataract surgery.	ongoing
3	Dr. Rashmi	Efficacy and safety of topical, subtenon's and peribulbar anaesthesia in manual small incision cataract surgery.	ongoing
4	Dr. Subhratanu Chakrabarty	The profile of primary glaucoma in a tertiary care center at Kolar	ongoing
5	Dr. Preethi	Evaluation of CTR implantation in cataract with pseudoexfoliation syndrome	ongoing
6	Dr., Dilip	Comparative study between Phacocapsulotomy and needle aspiration technique in intumescent cataract.	ongoing
7	Dr. Jyotsna	Profile of ocular trauma among patients in and	ongoing

		around kolar attending tertiary care hospital.	
8	Dr. Snehalatha	Clinical presentation and etiology of ocular motor nerve palsy patients in kolar.	ongoing

Conferences attended:

Sl. No.	Name of the staff	Conference attended
1	Dr.Narendra.P.Datti	70th All India Ophthalmic Conference held at Kochi
2	Dr.Narendra.P.Datti,	30 th Karnataka State Ophthalmic Conference, 2011 held at Bangalore
3	Dr.Kanthamani	
4	Dr.B.S.Guruprasad.	
5	Dr.Narendra.P.Datti	Bangalore Ophthalmic Society Summit
6	Dr.B.S.Guruprasad	
7	Dr.Prashanth.K.	69 th All India Ophthalmic Conference at Ahmedabad in March 2011,
8	Dr.Narendra.P.Datti	29 th Annual State ophthalmic conference at Udupi
9	Dr.K.Kanthamani	
10	Dr.Narendra.P.Datti,	
11	Dr.Kanthamani	28 th Annual State ophthalmic conference at Davangere
12	Dr.B.S.Guruprasad.	
13	Dr.Narendra.P.Datti Dr.K.Kanthamani Dr.Prashanth.K.	
14	Dr.Narendra.P.Datti Dr.K.Kanthamani Dr.Prashanth.K.	31 st Annual State ophthalmic conference at Bijapur
15		32 nd Annual State ophthalmic conference at Hasan

CME's conducted:

1. CME on “ Eye banking and cornea grafting” - Aug-2012
2. CME on “Glaucoma” – 11-03-2013.
3. CME on “Eye donation and corneal grafting” - 30th August, 2013.
4. CME on “Glaucoma Update” – 14-03-2013.
5. CME on “Eye donation Awareness” - 5th September 2014

Achievements/Honors/Awards/Fellowships:

Chairperson/Convener/Moderator in conference:

- Dr. Narendra. P. Datti
Chairperson Uvea session at Karnataka ophthalmological society conference Bijapur.
Chairperson Squint at Karnataka ophthalmological society conference Bijapur.
Moderator Uvea session at Bangalore ophthalmological society conference Bangalore.

Moderator Squint session at Bangalore ophthalmological society conference Bangalore.
Chairperson for CME's in MVJ Medical college, Bangalore.
Guest Lecture – 10th Silver Jubilee - 11-02-2011.
Guest Lecture Glaucoma Awareness – 16-03-2012.

- Dr. B. S. Guruprasad
Moderator Investigative Ophthalmology session at Bangalore ophthalmological society conference Bangalore.

Details of prizes and awards (if any):

Honors received:

Best paper presented in KOS on Community Ophthalmology
Best paper presented in KOS on Diabetic retinopathy
Best paper presented in KOS on Retiniopathy of prematurity.
Best CME on Eye Donation by KOS, Bangalore.

Achievements:


- Pass percentages in UG's 98% in past year.
- Gold medals for PG's in 2004,2010,2012





Photos reflecting the department: CD enclosed:

Signature of the Prof. & HOD

	SRI DEVARAJ URS MEDICAL COLLEGE	FORMAT NO	
		ISSUE NO	
	DEPARTMENT OF OPHTHALMOLOGY	REV NO	
		DATE	

No.DMC/KLR/OPHTH/ /2014-15

Date: -01-10-2014

From
The Professor & HOD
Department of Ophthalmology
Sri Devaraj Urs Medical College,
Tamaka, Kolar-563 101.

To
The Principal
Sri Devaraj Urs Medical College,
Tamaka, Kolar-563 101.

Sir,

Sub: Submission of department update for college website – reg.

I am herewith submitting the Ophthalmology department update for college website as per enclosed format.

This is for your kind information.

Thanking You,

Yours sincerely

Prof. & HOD.