

Blindness

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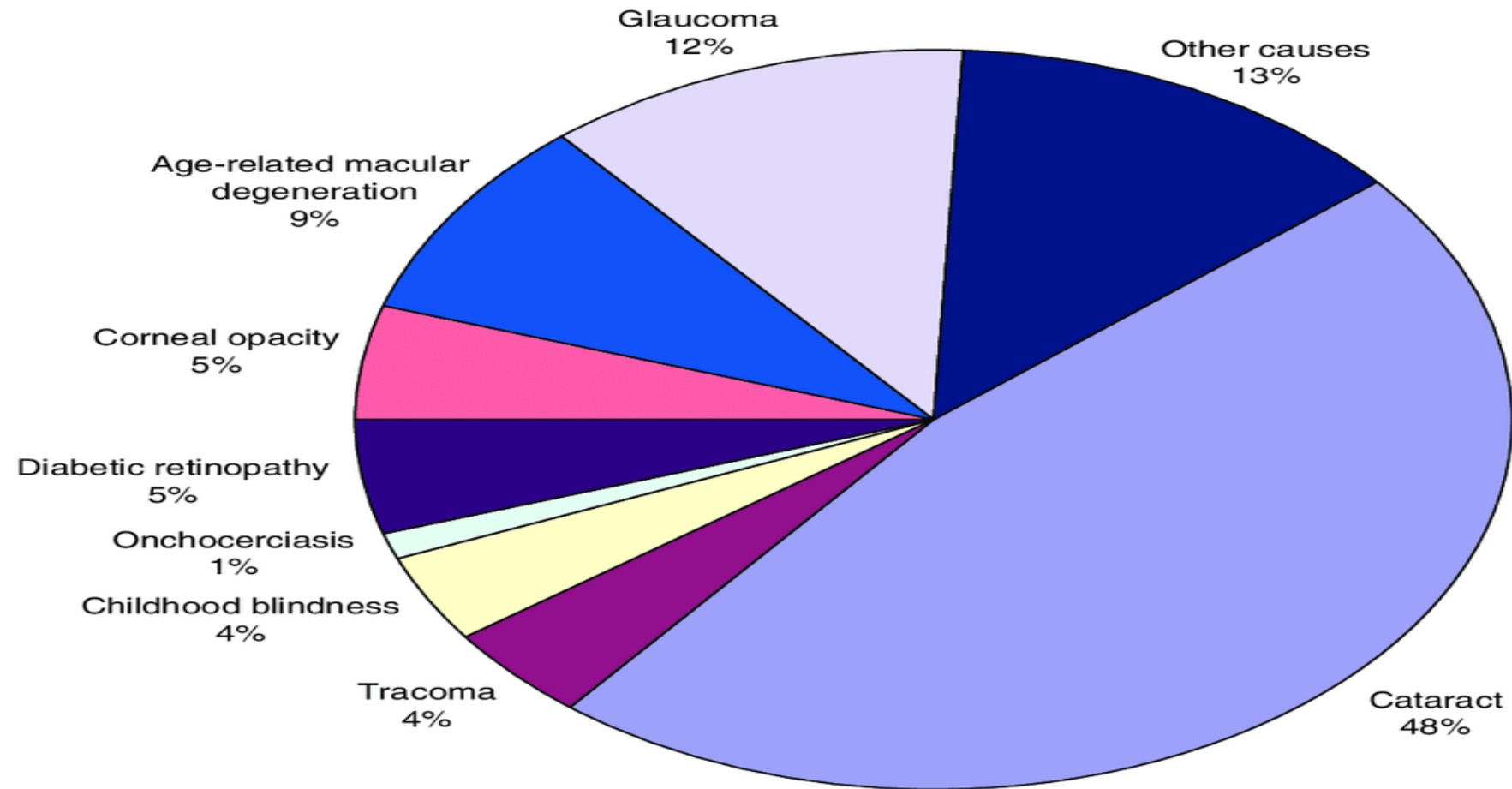
Assistant professor of ophthalmolgy

What is blindness?

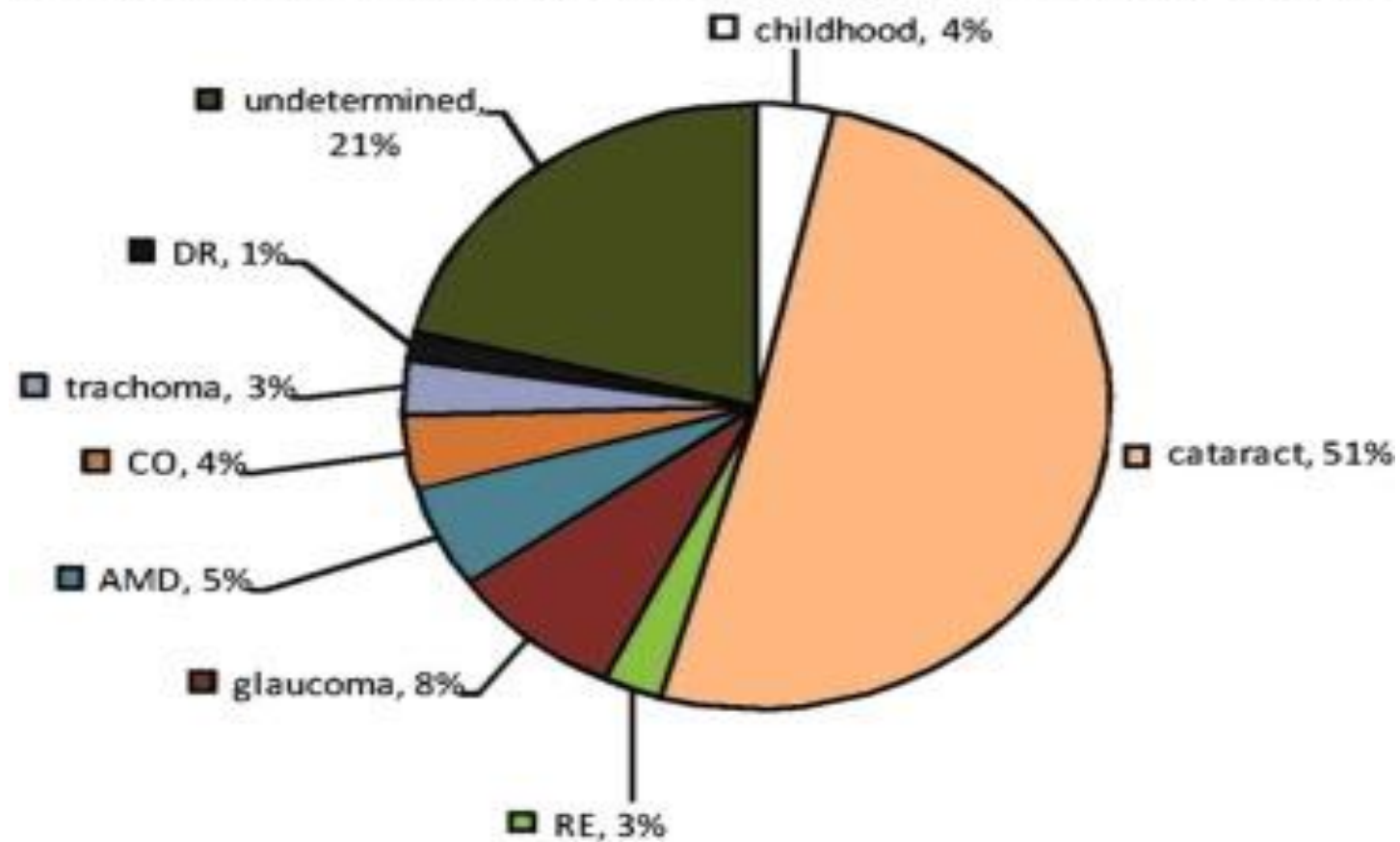
BLINDNESS

- WHO definition of blindness:
Visual acuity of less than 3/60 (Snellens) or its equivalent
- In the absence appropriate vision charts (By non-specialized personnel), the WHO has now added the “Inability to count fingers in daylight at a distance of 3 meters” to indicate less than 3/60 or its equivalent.

Causes of blindness



Global causes of blindness as percentage of global blindness in 2010.



cataract

DEFINITION

A cataract is a lens opacity or cloudiness.
Cataracts can develop in one or both eyes and at any age.



Treatment of cataract

Treatment

- The treatment of cataract is surgical

Surgical Techniques

1. Intracapsular cataract extraction
(+ spectacles / contactlens / intraocular lens (IOL))
2. Extracapsular cataract extraction + IOL
3. Phacoemulsification + IOL

glaucoma

DEFINITION

- It is a group of disorders characterized by an abnormally high intra ocular pressure (IOP), optic nerve dystrophy (weakness) and peripheral visual field loss (tunnel vision.)
- It is a symptomatic condition of the eye where the IOP is more than normal (above 25mm Hg).
- Untreated of glaucoma leads to permanent damage of the optic nerve and resultant visual field loss, which can progress to blindness.

Trachoma

Definition

- ▶ A chronic inflammation of the conjunctiva and the cornea, characterised by the presence of follicles and papillary hypertrophy of the conjunctiva, and by growth of blood vessels over the cornea.
- ▶ Greek word for 'rough'

Complications of trachoma

A



B



C

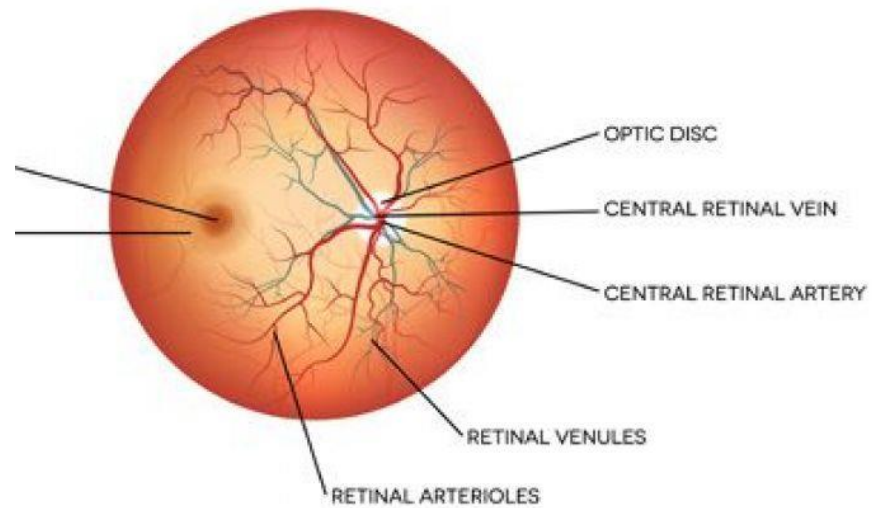


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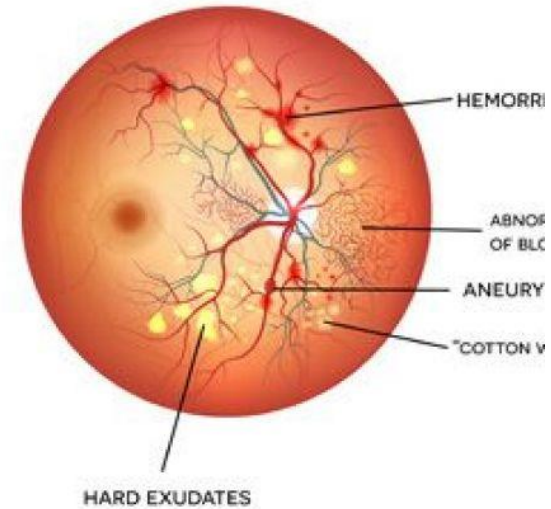


Diabetic retinopathy and maculopathy

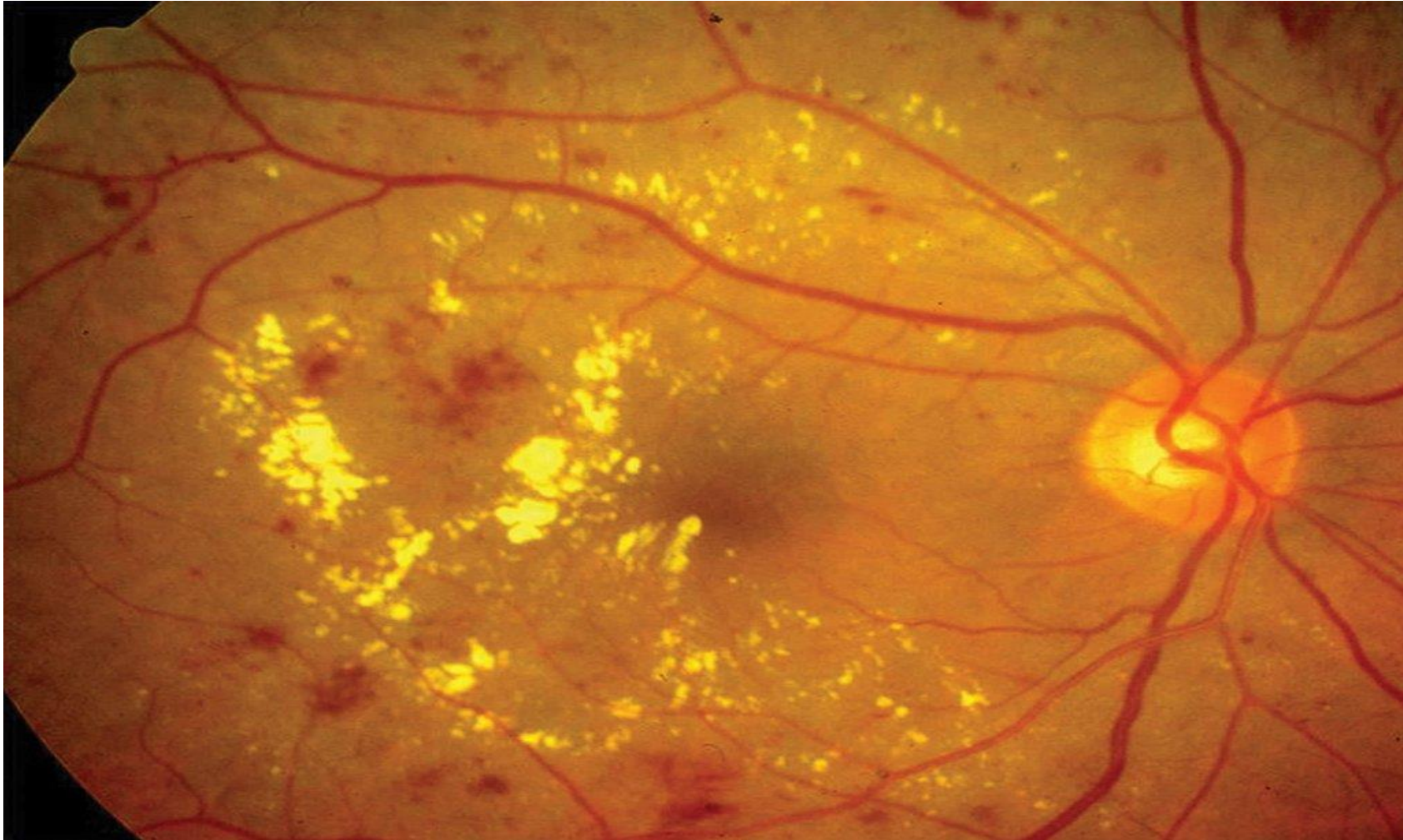
NORMAL RETINA



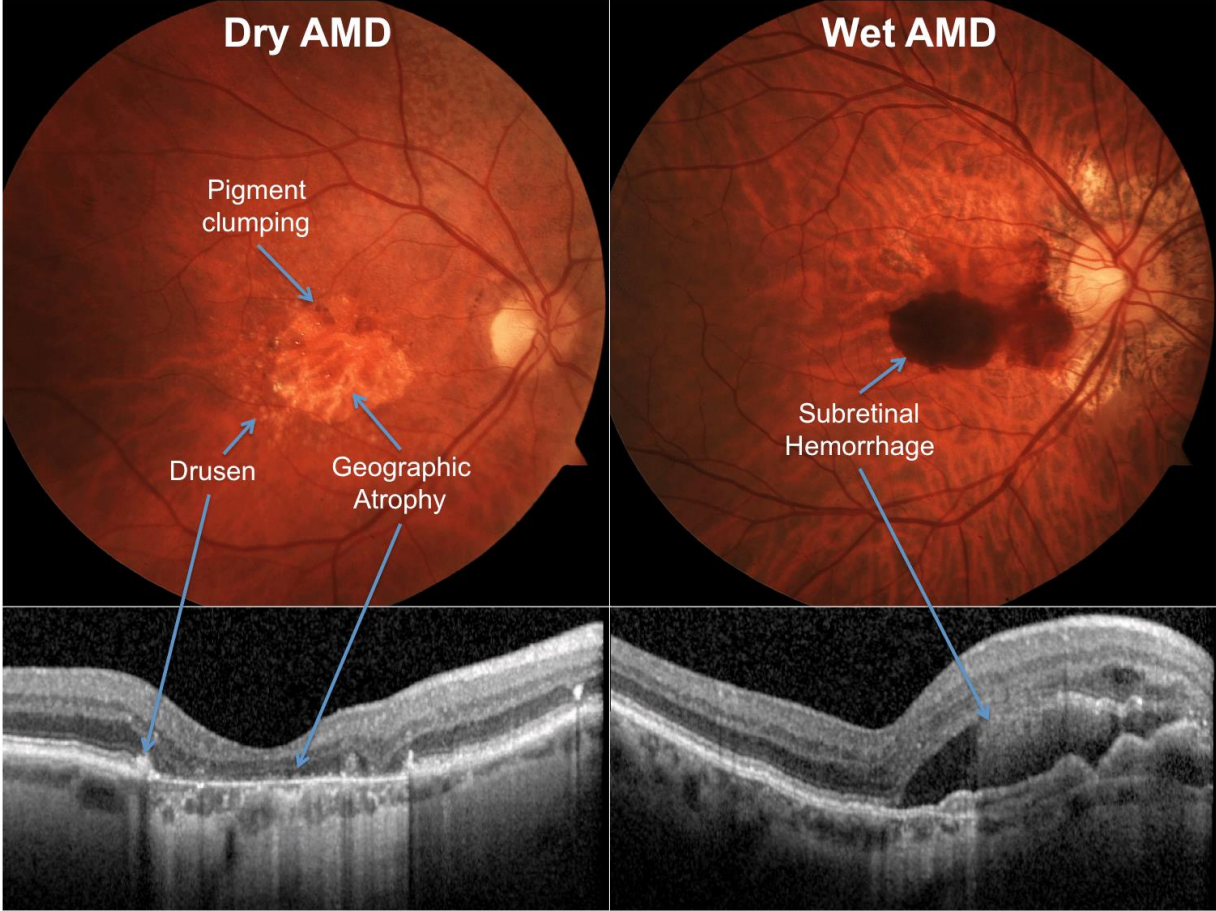
DIABETIC RETINOPATHY



Diabetic retinopathy and maculopathy



Age relate macular degeneration

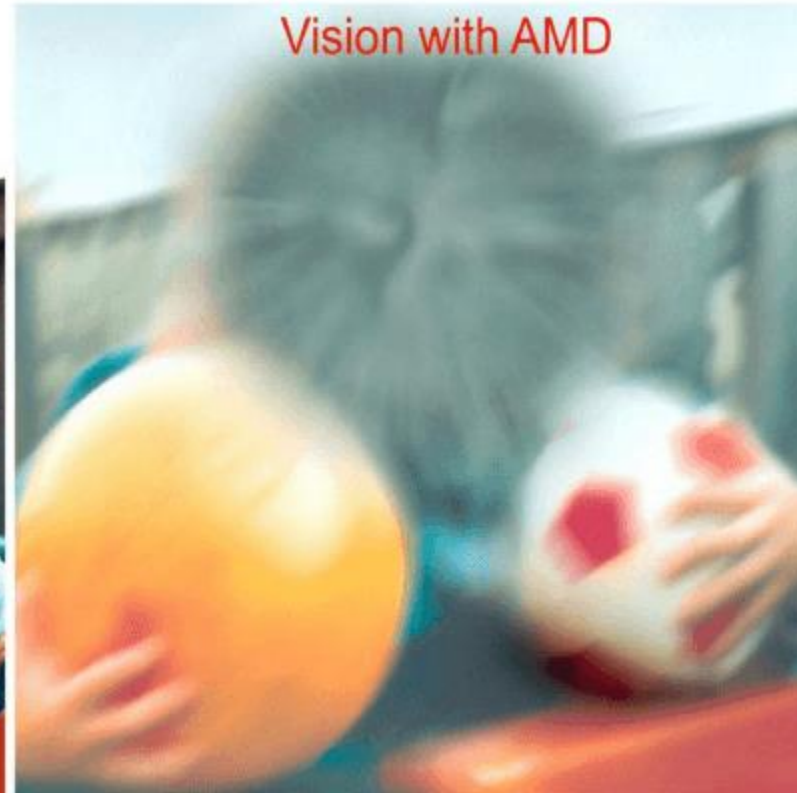


Age related macular degeneration

Normal Vision



Vision with AMD



Childhood blindness

	No	% of total
Preventable		
Vitamin A deficiency/measles	139	21.4
TORCH/meningitis	22	3.4
Autosomal dominant	10	1.5
Trauma/harmful traditional eye remedies	11	1.7
Subtotal:	182	28.0
Treatable		
Cataract	54	8.3
Glaucoma	32	4.9
Uveitis	12	1.8
ROP	3	0.5
Subtotal:	101	15.5
Total avoidable	283	43.5

Thanks for your attention