tion and dissolving the rest in one drachm of water. | Thus a dirty light red-brown fluid was obtained. By further extracting and evaporating, a four times and an eight times stronger extract were obtained. After R. had examined his eves, and found that his pupils were 2 lines in diameter each, and that with cach eye Jager's No. 1. was read at 5 inches distance, he put a drop of the weakest solution in his left eye, which did not produce any more irritation than a drop of water. After 10 minutes, objects at a distance of one foot became indistinct; at the same time all objects seemed larger and nearer. There existed also a sen-ation of tension in the eye, as if very minute objects had been assiduously looked at. Both pupils were yet equal in size. After twenty minutes the left pupil had only a diameter of 1 line; objects further distant than 9 inches appeared dim; every thing looked at seemed larger and nearer. The right eye was normal. After 30 minutes the left pupil was only \$, the right one 21 lines in diameter. The far-point of the left eye 8 inches. After 50 minutes the left pupil was 1 and the right one 2 lines; a sensation of pressure and fatigue became manifest, when the subject of the experiment attempted to read; objects at 10 yards distance were recognized with diffi-culty. After 6 hours the left pupil was 1 line, the right one 11 lines; both reacted on light. After 12 hours the left pupit was 11, the right one 21 lines in diameter. The following morning both pupils showed yet a slight difference and the left eye was comewhat weak.

Bowman, who has also experimented on his own eye, as stated by Wells, says that after 5 minutes he felt a strong tension in the neighborhood of the cliary body, as it something creat about there. After 10 minutes this sensation had yet increased, and he felt also some lancinating pain. After 15 minutes the near-point was at the left side 61 inches, while in the right eye, to which nothing had been applied, it was removed to a distance of 15 inches. The far-point seemed equally distant in both eyes. After 20 minutes No. XVII Jager was seen at 15 feet, but the letters oscillated: they disappeared and returned citernately. The left pupil was then contracted to the size of the head of a pin, remained in this state for 18 hours, and in the course of three days again became normal. With this dilatation the reaction of the pupil on light again became noticeable on both eyes. Twenty-five minutes after the application there existed astigmatiam: the vertical staffs of a window appeared perfectly distinct at a distance of from 6 to 10 feet, while the horizontal ones seemed dim and angular. This was remedied by a concave cylindrical glass of 14 inches focus. With a cylindrical glass of 50 inches focus distant objects appeared palpably smaller. This astigmatic state was yet found 18 hours after the application.

De Graefe has tested the new myotic on 9 healthy persons. The average time for the setting in of contraction was 14 minutes with the weak, 12 minutes with the strong solution; the duration of contraction with the former 2, with the latter 3 days; the maximum of contraction lasted from 6 to 18 hours. The altered state of refraction, i. e. the cramp of the muscle of accommodation and the approach of the near-point, lasted much less in Graefe's experiments: it reached its height in 10 cornes and sclerotic with a recent prolapsus of

weakest solution was produced by extracting 30 minutes, and remained there but from 10 to 20 grains of the bean by alcohol, evaporating to desicca- minutes. The apparent increase in the size of objects and change of illumination were also observed; the acuteness of vision was reduced from I to 4. Ophthalmoscopically there appeared no change of circulation. In a patient who had m iris, but good vision, the action on the ciliary muscle was also manifest. Experiments on birds showed the action of the drug on the pupil of these animals to be very brief; on amphibia and fishes the remedy remained without influence. De Grack also satisfied himself that atropine is a much mor powerful in tant in an opposite sense than the Calabur bean. The latter is not capable of contracting the pupil after it has just been dilated by atropine; the action of the latter also again appeared, when in an atropinized eye the Ca'abr bean had for a short time produced a medium &-gree of contraction. When the pupil had first bear contracted, atropine always acted, but somewhat slowly. The remedy acted also on the iris, when it was abnormal but not totally atropic, in glacoma and in a case of fixtula of the cornea.

From all nitherto published experiments, it results that the Calabar bean first produces a subjective sensation of tension in the ciliary body which may be recognized also by the determination of the near-point and the range of accommodation. that it also causes contraction of the pupil; the the contraction reaches its beight in the course of an hour; that the iris loses during that periodic contractibility; and that the dilatation to the normal size from this contracted state requires less ton than the contraction of the pupil, when dilated by atropine (the latter circumstance probably depend on our incapacity up to the present time to exime entirely the active principles of the bean). Simil taneously with the tension of the ciliary body occ the symptoms of myopia with a small range of a commodation, and of astigmatism. The remedither-fore, acts by producing a cramp, by irritate of the ceilinry branches of the oculo-motorius, i the ciliary muscle and sphincter of the pupil:r does not paralyze the dilatator pupillæ, as otheres it could not produce complete contraction inpreviously dilated pupil. It is, consequently, so far an antagonist of atropine as the latter in tates the dilatator of the pupil.

Therapeutically the remedy will find the follow ing applications: 1. Perhaps in retinitis, with gresensibility to light, in order to moderate the admision of light. 2. In mydriasis, consecutive in some cases to debilitating diseases (typhus, diphtherik etc.), and to injuries. 3. In ulcers at the marp of the cornea, in order to avoid incarceration of sphincter of the pupil after perforation. 4. In sectional mydriasis, in order to do away with a dazzling, which is very disagreeable to paties after having been examined by the ophthalmosor particularly if they have but one eye. [To the indications may be added the following: 5. in the corneal opacities with a transparent centre, whi produce, when the pupil has its normal size, de zling by diffusion of light. 6. In similar circu script opecities of the crystalline body, situate near the centre of the latter, and in dislocate thereof. 7. In abnormal mobility of the lens, w a tendency to fall into the anterior chamber. For the discovery of simulated amaurosis, the pu being dilated with atropine. 9. In wounds of