HYPNOTISM, MESMERISM

AND THE

NEW WITCHCRAFT

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PREFACE

THE papers here brought together have recently appeared in the 'Nineteenth Century' and the 'British Medical Journal,' and are reprinted by permission. They are published to meet the wishes of some who have suggested to me it might prove useful and acceptable that they should be collected into a small volume, and thus become more available for current reference than they would otherwise have been. They were so favourably received at the time of publication that I may venture to hope it is not presumptuous to give them this more permanent shape. Nothing has been written in the way of criticism which seemed to me at all substantial, or to call for any modification of the text; so that while I can hardly hope that their somewhat aggressive tone will pass altogether without disapproval from a certain

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school of psychical researchers, yet I may venture to think that they will now, as they did when first published, meet with general acceptance from the medical and scientific world, and that they will serve a useful purpose in dissipating some popular errors and a good deal of pseudo-scientific superstition, superimposed on a slender basis of physiological and pathological phenomena. They may be of some service, also, in unmasking a prevalent system of imposture which had imposed upon a good many journalists and men of literary culture.

ERNEST HART.

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HYPNOTISM AND HUMBUG.[1]

The Attraction of the Unknown—The Early History of Mesmerism—Some Control-experiments—Natural Sleep and Hypnotic Sleep—Hypnotism of Animals—The Follies of Telepathy and of 'Animal Magnetism.'

THE unknown has always had a great attraction for every class of mind, and whoever promises to lift for us the veil of the mysterious and to afford us a glimpse into the unknown world may always count upon a large following. It is the infirmity of great minds as of small. The poet, the mystic, the imaginative philosopher, share its higher privileges; the charlatan, the quack, and the stage performer, its greater profits. There is one phase of the pursuit of the unknown, and one method of manipulating it, which has had the privilege of exciting the interest and inflaming the imagination of mankind in all periods of history, in every phase of civilisation, and in every part of the world; probably even amongst prehistoric peoples, and certainly amongst aboriginal savages. It is the endeavour to search out hidden forces and mysterious qualities of the mind—to

[1] An Address delivered in Toynbee Hall.

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discover other methods of transmitting mental impressions than those of sight, speech, and touch; other avenues than those of the five senses; and other means of mental influence than those everywhere known and visible. It is with this quest, and with some of its ancient vestiges and strange modern developments, that I purpose to deal. Hypnotism, which is now the subject of much intelligent and well-directed modern research, and is also, unfortunately, the plaything of a class of wandering stage performers, is the lineal descendant of many ancient beliefs. It was known to the earliest races of Asia and amongst the Persian Magi; and to this day the Yogis and Fakirs of India throw themselves into a state of hypnotic ecstasy and reverie by fixation of gaze. In many convents of the Greek Church it has been practised since the eleventh century, as it is still by the Omphalopsychics, by whom hypnotic reverie is obtained by steadily gazing at the umbilicus. Modern hypnotism, mesmerism, telepathy, animal magnetism, thought-reading, or thought-transference, are of the family which in earlier times, and when men were less wont to analyse natural phenomena by rational methods, brought forth the practices of the Magians, the antics of the demoniacs and the possessed, the expulsion of evil spirits by exorcism, the healing of the king's-evil by laying on of hands, the serious acceptance and judicial punishment of the hallucinations of the witches, and the fantastic cruelty of

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the witch-finders. The proceedings by which Sarchas, the faithful companion of Apollonius, gave sight to the blind, movement to the paralysed, hearing to the deaf, and reason to the insane, were essentially methods of what we should now call 'suggestion'; and the application of the influence of suggestion to persons in the most various mental and physical states, whether of health or disease, will serve to throw light on some of the most tragic, blood-stained, picturesque, and incredible pages of history, as well as on a multitude of stage tricks and quack procedures which are just now, as they have been at frequent intervals during the last century, much in vogue. But first of all I must summarise some of the related facts in the physiology of the brain, and give a little of my own personal experience as an investigator, an experience which led me to take special interest in the subject.

Very early in life I was brought into contact with a well-known physician, the late Dr. Elliotson, who, unfortunately for himself, was victimised by two characteristic specimens of that kind of hysterical impostors who delight in deceiving investigators of mesmerism, hypnotism, spiritualism, and the like, and whose great object is to become either centres of interest and notoriety or to make money. Although a very able and earnest man, Dr. Elliotson was completely entrapped and deceived by two women named Okey, who were patients of his in University College Hospital.

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They made him believe that when he had thrown them into what was called the mesmeric sleep, they could read letters placed in a sealed envelope on the surface of their bodies, their eyes being previously carefully bandaged. Although the trick was thoroughly exposed by the late Mr. Wakley, coroner for Middlesex, and Dr. Elliotson had to retire from University College Hospital, he had seen enough of the actual and indubitable phenomena of induced sleep which he was able to produce, to lead him to devote the rest of his life to the endeavour to employ this means of inducing sleep, as a curative agent. He attended a very near and dear relative of mine who was suffering from a chronic and painful affection of the joints, which murdered rest. He was successful in giving her sleep at nights; and this striking demonstration of an actual power, which, if not resident in, was at least connected with his method of practice, not only made me grateful to him, but sufficed to impel me, when later I entered into the medical profession, to test his methods. I very soon found that in a large number of cases there is no difficulty whatever in producing what we may call, though not very accurately, artificial sleep. I found that I could produce it easily and frequently by means of what were then called mesmeric passes, with the hands or by desiring the patient to look fixedly at my eyes; and, at first, following the directions of Elliotson and of his master Mesmer, I at the same time

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exercised my will, and 'willed' the patients whom I mesmerised, to sleep. Just at this time there were springing up two other methods of exciting this artificial condition, one being widely known as Braidism, because it was practised by Dr. Braid, and the other as electro-biology—a name which had, I believe, been first given to it in America about 1848, by a New Englander named Grimes. The latter had been lec tured on, under the title of Electrical Psychology, in 1850, by Dr. Dodds, before the Congress of the United States, in reply to a semi-official invitation from some members of the Senate. These lectures had been published, under the title of the 'Philosophy of Electrical Psychology,' in New York, and been disseminated in England in 1850, when I first took to studying the subject, by Dr. Darling and others, amongst whom Dr. B. W. Carpenter, Sir James Simpson, Sir Henry Holland, and Sir David Brewster are perhaps the best-known personages.

At this stage of my career I was house surgeon to a metropolitan hospital, and I had rather a sharp reminder of the danger of meddling with a subject of this nature. Two friends—one of whom, I may say parenthetically, is a member of the present Government—were spending the evening in my rooms at the hospital, and with them was a lady who professed the customary incredulity as to my powers of inducing sleep. She submitted herself as subject, and was very soon mesmerised; and so pro-

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longed and complete was her slumber, that she was with difficulty aroused; and when she left, her gait was tottering and she had to be supported on either side by her friends. This occurrence was reported to the hospital authorities by an unfriendly official, with very hostile suggestions. I was summoned before the board, I gave my explanation, and the matter was referred to the Medical Committee. I escaped with a solemn and incredulous admonition—chiefly, I think, because I was rather a favourite pupil, with a good record in the school—the sort of verdict being 'not guilty, but don't do it again,' pronounced with a dubious smile and a severe shake of the head, which clearly conveyed that my censors were very far from accepting the scientific explanation of the facts. I could recount a long series of what might sound like strange stories of my various experiences. They were enough to show that the condition induced partook of the character, sometimes of ordinary sleep, sometimes of cataleptic trance, sometimes of waking somnambulism. The persons acted on were very much under the influence of suggestion, and could be made to say and do all sorts of strange and ridiculous things—to reply to questions in which they revealed various secrets, to obey commands which at any other time and under any other circumstances they would be very unwilling to obey, to perform acts which were senseless, and even dangerous, unless I had exercised special precautions; as to jump from heights,

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to dive off a table on to the floor as if swimming, to attack with a dagger an imaginary enemy, to flee from supposititious serpents or stinging insects in an agony of fear, to listen to imaginary nightingales in an ecstasy of pleasure, and all these performances took place without consciousness at the time or memory afterwards. The subjects were reduced, in fact, to the condition of human automata, capable of being acted upon by an external will which they were unable to resist. But at a very early stage I asked myself what was the real meaning of all this, and how far it was possible to analyse the origin and to define the sphere of these phenomena; and I instituted for myself a series of control-experiments.

I will briefly explain what is meant by control-experiments; for if all who investigate or make any sort of research into what are called psychical phenomena, would carefully consider what are the kinds of control-experiments necessary to verify the true causation of the results of their research, the lamentable confusion, the tissue of errors, and the foggy mysticism with which this subject is still surrounded would be in large part dispelled. The attractiveness of the pursuit for many minds would, no doubt, also be proportionately diminished; and it may, indeed, be doubted whether, under a system of rigid control-tests, such a Society as the Society for Psychical Research would find material sufficiently diverting to the many to enable

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it to continue long to exist. The control-experiments which I instituted consisted in eliminating precisely those elements which were supposed to be the efficient causes of the phenomena produced. Thus, the first and most efficient of the causes of this mesmeric, hypnotic, magnetic, or electro-biological condition of the subject was generally assumed to be either the will-power of the operator or some fluid, magnetic, electrical, psychical or other, emanating from the operator, or from some object which he had touched, or otherwise impregnated or invested with an influence, a fluid, or a power proceeding from himself. The mesmeric state was supposed by Mesmer himself to be due to something which he called a magnetic fluid. At the time when all Paris rang with the wonders of his power, and when his antechambers were filled with princes of the blood royal, with the halt, the lame and the blind, with mystics, monks, and *religieuses*, with ladies of fashion, and the heterogeneous multitude who love the marvellous; he had constructed huge and complex tubs filled with bottles of fluid erroneously called electrical fluid, such as Count Mattei now dispenses, and connected by a complicated system of wires with handles, to be held by his subjects. Mesmer received 16,000*l.* for telling his secrets, which, of course, turned out to be no secrets at all, and it was found there was no electricity in the bottles or the tubs. Presently he retired across the Rhine enriched by his dupes, who

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ceased to be cured as the fashion died away and as their faith waned. In all these so-called magnetic cures, faith-cures, and Mattei specifics, Perkins tractors and electric belts, you must make haste to be cured while the faith or the fashion lasts; as it fades, they cease to cure. But Mesmer left a doctrine, a principle, and a nomenclature which has served the purpose of succeeding generations of quacks and *gobemouches*. The first thing I did, then, was to ascertain whether there was anything electrical or magnetic in the phenomena. This was very soon answered in the negative. The most delicate electrical instruments failed to detect any difference whatever either in my own electrical state or in that of the persons operated on, at any stage of the proceedings. The ordinary methods of conducting or of cutting off magnetic or electric currents neither favoured nor interfered with the results. The interposition of silk or of glass, the insulation of the subject or of myself, did not in any way modify the phenomena, which were evidently entirely independent of the magnetic or electric fluid. And here I may remark that this has always been found to be the case whenever tests have been applied to the so-called animal magnetisers or electro-biologists and their subjects. The fact is, that the word 'animal magnetism' applied to any of these phenomena of induced sleep, human automatism, hypnotic suggestion, or faith-cure, is a pure misnomer. It is an example of that tendency

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satirised by Voltaire when he speaks of the tendency of mystics and charlatans to consecrate their ignorance and to impose its conclusions upon others *by giving a name which has no meaning to phenomena which they do not understand.* There is, of course, electrical reaction in the living tissues of the body, and all muscular contractions are associated with simultaneous electric changes; but electric fluid has no special relations to nerve rather than to muscle tissue; it has no relation whatever to mental influence. Animal magnetism, in the sense in which it is commonly applied as related to faith-cures, hypnotic performances, and the like, is a term without meaning; while the whole tribe of self-styled animal magnetisers may be dismissed as conscious or unconscious impostors.

After this parenthesis I return to a second kind of control-experiment. Apart from the magnetic fluid which was supposed to emanate from the magnetiser, there was then, had lived for many years, and still exists, a theory that the will of the operator had much to do with bringing the subjects into a state of fascination or sleep. I therefore eliminated my will in one set of experiments, and in another I set it in direct opposition to the result to be obtained. Thus I dispensed with all passes or gestures, and simply sat in front of my subjects in a mental attitude of indifference and curiosity. I did not will them to sleep, but I allowed them to look at me, or at a coin, or at a silver

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spoon suspended six inches in front of the eye, or at the tip of their own nose. The same results were attained. I went further. Mesmer, who had mesmerised as many as eight thousand people in one year in Paris, and his disciple Puysegur, had on various occasions mesmerised, as it was called, the trunk of a tree, and, in virtue of the influences with which the tree was supposed to be thus impregnated, people joining hands and surrounding it, and gazing at it fixedly, had fallen into the mesmeric sleep, or had received the same kind of benefits in their rheumatic, neuralgic, paralytic, and other nervous affections as from the direct treatment of the sage himself. Staying at the well-known country house in Kent of a distinguished banker in this city, formerly member for Greenwich, I had been called upon to set to sleep, and to arrest a continuous barking cough from which a young lady who was staying in the house was suffering, and who, consequently, was a torment to herself and her friends. I thought this a good opportunity for a control-experiment, and I sat her down in front of a lighted candle which I assured her that I had previously mesmerised. Presently her cough ceased and she fell into a profound sleep, which lasted till twelve o'clock next day. When I returned from shooting, I was informed that she was still asleep and could not be awoke, and I had great difficulty in awaking her. That night there was a large dinner-party, and, unluckily, I sat opposite to her. Presently she again

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became drowsy, and had to be led from the table, alleging, to my great confusion, that I was again mesmerising her. So susceptible did she become to my supposed mesmeric influence, which I vainly assured her, as was the case, that I was very far from exercising or attempting to exercise, that it was found expedient to take her up to London. I was out riding in the afternoon that she left, and as we passed the railway station, my host, who was riding with me, suggested that, as his friends were just leaving by that train, he would like to alight and take leave of them. I dismounted with him and went on to the platform, and avoided any leave-taking; but unfortunately in walking up and down it seems that I twice passed the window of the young lady's carriage. She was again self-mesmerised, and fell into a sleep which lasted throughout the journey, and recurred at intervals for some days afterwards. Such was the history of a candle supposed to be invested with mesmeric influence, and therefore acting as though it were. It is an instructive and a suggestive incident, which I could parallel with many others, and I dare say it will easily be seen in what direction it is leading. I may add that when I proceeded to a more active and direct intervention of the will, opposing sleep, the results were not affected negatively. So long as the person operated on believed that my will was that she should sleep, sleep followed. The most energetic willing in my internal consciousness that there should be no sleep

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failed to prevent it, where the usual physical methods of hypnotisation, stillness, repose, a fixed gaze, or the verbal expression of an order to sleep, were employed.

Thus, then, we have arrived at the point at which it will be plain that the condition produced in these cases, and known under a varied jargon invented either to conceal ignorance, to express false hypotheses, or to mask the design of impressing the imagination and possibly prey upon the pockets of a credulous and wonder-loving public—such names as the mesmeric condition, magnetic sleep, clairvoyance, electro-biology, animal magnetism, faith-trance, and many other aliases—such a condition, I say, is always subjective. It is independent of passes or gestures; it has no relation to any fluid emanating from the operator; it has no relation to his will, or to any influence which he exercises upon brute objects; distance does not affect it, nor proximity, nor the intervention of any conductors or non-conductors, whether silk or glass or stone, or even a brick wall. We can transmit the order to sleep by telephone or by telegraph. We can practically get the same results while eliminating even the operator, if we can contrive to influence the imagination or to affect the physical condition of the subject by any one of a great number of contrivances.

What does all this mean? I will refer to one or two facts in relation to the structure and function of the

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brain, and show one or two simple experiments of very ancient parentage and date, which will, I think, help to an explanation. First, let us recall something of what we know of the anatomy and localisation of function in the brain, and of the nature of ordinary sleep. The brain, as you know, is a complicated organ, made up internally of nerve masses, or ganglia, of which the central and underlying masses are connected with the automatic functions and involuntary actions of the body, while the investing surface shows a system of complicated convolutions rich in grey matter, thickly sown with microscopic cells in which the nerve ends terminate. At the base of the brain is a complete circle of arteries, from which spring great numbers of small arterial vessels carrying a profuse blood supply throughout the whole mass, and capable of contraction in small tracts, so that small areas of the brain may, at any given moment, become bloodless, while other parts of the brain may simultaneously become highly congested. Now, if the brain, or any part of it, be deprived of the circulation of blood through it, or be rendered partially bloodless, or if it be excessively congested and overloaded with blood, or if it be subjected to local pressure, the part of the brain so acted upon ceases to be capable of exercising its functions. The regularity of the action of the brain and the sanity and completeness of the thought which is one of the functions of its activity, depend upon the healthy

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regularity of the quantity of blood passing through all its parts, and upon the healthy quality of the blood so circulating. If we press upon the carotid arteries which pass up through the neck to form the arterial circle of Willis, at the base of the brain, within the skull—of which I have already spoken, and which supplies the brain with blood—we quickly, as everyone knows, produce insensibility. Thought is abolished, consciousness is lost. And if we continue the pressure, all those automatic actions of the body—such as the beating of the heart, the breathing motions of the lung, which maintain life and are controlled by the lower brain centres of ganglia—are quickly stopped, and death ensues.

We know by observation in cases where portions of the skull have been removed, either in men or in animals, that during natural sleep the upper part of the brain—its convoluted surface, which in health and in the waking state is faintly pink like a blushing cheek, from the colour of the blood circulating through the network of capillary arteries—becomes white and almost bloodless. It is in these upper convolutions of the brain, as we also know, that the will and the directing power are resident; so that in sleep the will is abolished and consciousness fades gradually away as the blood is pressed out by the contraction of the arteries. So, also, the consciousness and the directing will may be abolished by altering the quality of the blood passing

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through the convolutions of the brain. We may introduce a volatile substance, such as chloroform, and its first effect will be to abolish consciousness and induce profound slumber and a blessed insensibility to pain. The like effects will follow more slowly upon the absorption of a drug, such as opium; or we may induce hallucinations by introducing into the blood other toxic substances, such as Indian hemp or stramonium. We are not conscious of the mechanism producing the arterial contraction and bloodlessness of those convolutions related to natural sleep. But we are not altogether without control over them. We can, we know, help to compose ourselves to sleep, as we say in ordinary language. We retire into a darkened room, we relieve ourselves from the stimulus of the special senses, we free ourselves from the influence of noises, of strong light, of powerful odours, or of tactile impressions. We lie down and endeavour to soothe brain-activity by driving away disturbing thoughts, or, as people sometimes say, 'try to think of nothing.' And, happily, we generally succeed more or less well. Some people possess an even more marked control over this mechanism of sleep. I can generally succeed in putting myself to sleep at any hour of the day, either in the library chair or in the brougham. This is, so to speak, a process of self-hypnotisation, and I have often practised it when going from house to house, when in the midst of a busy practice; and sometimes I have

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amused my friends and family by exercising this faculty, which I do not think it very difficult to acquire. Now there is something here which deserves a little further examination, but which it would take too much time to fully develop at present. Most people know something of what is meant by reflex action. The nerves which pass from the various organs to the brain convey with great rapidity messages to its various parts, which are answered by reflected waves of impulse. If the soles of the feet be tickled, contraction of the toes, or involuntary laughter, will be excited, or perhaps only a shuddering and skin-contraction known as goose-skin. The irritation of the nerve end in the skin has carried a message to the involuntary or the voluntary ganglia of the brain, which has responded by reflecting back again nerve-impulses which have contracted the muscles of the feet or the skin-muscles, or have given rise to associated ideas and explosion of laughter. In the same way, if during sleep heat be applied to the soles of the feet, dreams of walking over hot surfaces—Vesuvius or Fusiyama, or still hotter places—may be produced, or dreams of adventure on frozen surfaces or in Arctic regions may be created by applying ice to the feet of the sleeper.

Here, then, it is seen that we have a mechanism in the body, known to physiologists as the ideo-motor or sensory motor system of nerves, which can produce, without the consciousness of the individual,

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and automatically, a series of muscular contractions. And remember that the coats of the arteries are muscular and contractile under the influence of external stimuli, acting without the help of the consciousness, or when the consciousness is in abeyance. I will give another example of this, which completes the chain of phenomena in the natural brain and the natural body I wish to bring under notice in explanation of the true as distinguished from the false, or falsely interpreted, phenomena of hypnotism, mesmerism, or electro-biology. I will take the excellent illustration quoted by Dr. B. W. Carpenter in his old-time but valuable book on 'The Physiology of the Brain.' When a hungry man sees food, or when, let us say, a hungry boy looks into a cookshop, he becomes aware of a watering of the mouth and a gnawing sensation at the stomach. What does this mean? It means that the mental impression made upon him by the welcome and appetising spectacle has caused a secretion of saliva and of gastric juice; that is to say, the brain has, through the ideo-motor set of nerves, sent a message which has dilated the vessels around the salivary and gastric glands, increased the flow of blood through them, and quickened their secretion. Here we have, then, a purely subjective mental activity acting through a mechanism of which the boy is quite ignorant, and which he is unable to control, and producing that action on the vessels of dilatation or con-

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traction which, as we have seen, is the essential condition of brain activity and the evolution of thought, and is related to the quickening or the abolition of consciousness, and to the activity or abeyance of function in the will-centres and upper convolutions of the brain, as in its other centres of localisation. Here, then, we have something like a clue to the phenomena—phenomena which, as I have pointed out, are similar and have much in common—of mesmeric sleep, of hypnotism, and of electro-biology. We have already, I hope, succeeded in eliminating from our minds the false theory—the theory, that is to say, experimentally proved to be false—that the will, or the gestures, or the magnetic or vital fluid of the operator are necessary for the abolition of the consciousness and the abeyance of the will of the subject. We now see that ideas arising in the mind of the subject are sufficient to influence the circulation in the brain of the person operated on, and such variations of the blood-supply of the brain as are adequate to produce sleep in the natural state or artificial slumber, either by total deprivation, or by excessive increase or local aberration in the quantity or quality of blood. In a like manner it is possible to produce coma and prolonged insensibility by pressure of the thumbs on the carotid; or hallucinations, dreams, and visions by drugs, or by external stimulation of the nerves. Or again the consciousness may be only partially affected,

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and the person in whom sleep, coma or hallucination is produced, whether by physical means or by the influence of suggestion, may remain subject to the will of others and incapable of exercising his own volition.

Let me illustrate how easily the will may be abolished under the influence of imagination or of sudden impression, even in creatures the least imaginative and physically the most restless and active. Some very old experiments will suffice, though it is easy to modify them in new forms. I prefer the old, because the old story is one of ancient beginnings, of which we have now, however, the means of a more rational understanding. I take a cock, and I repeat on it what is known as the *experimentum mirabile* of Kircher. It is fresh from the barn-yard, and a very pugnacious animal. If I hold it, it struggles and screams; but I have only to place it quietly and firmly on a board, and draw a chalk line from its beak, which I have depressed, until it touches the board, and the bird remains firmly hypnotised. It is motionless, or, as people would say, fascinated; and it will remain in this position for an indefinite time. I take a rabbit and adjust it on its back in a little trough, which is only used to prevent it from falling over, and this animal also becomes rapidly hypnotised. The same thing can be done with a guinea-pig, a frog, or even with a young alligator. The limbs are plastic, can be moved in any direction and will stay in the position in which they are placed.

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The same thing can be done with a number of other animals, such as birds and cray-fish. Harting states that if this experiment be frequently repeated with a fowl, the bird will often become permanently paralysed in some of its limbs. If I take up the hypnotised rabbit, or lift the cock, they at once become active, and come out of their hypnotic into their natural state. Position and tactile impression are the means used in these experiments to produce hypnotism, and possibly also mental impression. Visual impression produces similar effects. Richet has with a lime-light produced similar effects to those which Charcot produces on his hypnotic, cataleptic, and hysterical patients. Horses are very susceptible to hypnotisation by any one standing in front of them, so that they have to look at the operator fixedly. This practice was introduced into use in Austria by a cavalry officer, Balassa. It is called after him the *Balassiren* of horses, and according to Moll it has been introduced by law into Austria for the shoeing of horses in the army. Rabbits, when they are introduced into the cage of a snake, fascinate themselves, as it is termed, by staring at it. The process is commonly spoken of as though it were an active proceeding on the part of the snake which fascinates the rabbits. They are, in fact, self-fascinated, and, as I pointed out in the case of hypnotic patients, a mechanical means of impressing their senses suffices, and it is quite gratuitous to

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import the notion of any sort of vital force or living influence of fascination on the part either of the snake or of the wily platform performer.

I now come to consider the subsequent conditions of the individual who has submitted to any of the processes of hypnotisation or mesmerism. They are sufficiently various, striking, and interesting, though they have been much misunderstood, considerably exaggerated, and the medium of much imposture. The individual is reduced more or less perfectly to the state of a living automaton. The upper brain is more or less completely and more or less regularly bloodless, and its functions are in abeyance. The will is abolished, suspended, or enfeebled. Sleep has been induced while the thought has been in relation to the person carrying on the experiment, and the suggestions made by, or the directions given by him are carried out without the intervention of the will of the subject and more or less completely without his knowledge. He may often be placed in positions which, in his waking moments, his terror or his reason would prevent him from taking up or from maintaining. The suggestions of attack or of defence, of causes of terror or of delight, are at once adopted and he is as an instrument on the keys of which the operator can play his own tune. He accepts any statement as to flavours or odours; he swallows petroleum with delight, and believes it is champagne; mistakes salt for sugar, and mustard for honey. Of course, when all

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these tricks are played upon the platform, they are very far from always being genuine. A platform performance, in order to be successful in drawing money, must always have its dramatic and histrionic incidents. These desiderata cannot always be secured, and so confederates are paid to simulate the phenomena of hypnotism and suggestion; but there are few of the things done regularly at exhibitions of the kind which I have not seen repeated and surpassed from time to time in the study or the hospital ward. I refer to the works of Charcot, of Bernheim, of Moll, and of Déjérine for the details of marvellous effects of suggestion in producing, without the consciousness of the patient, antics, muscular efforts, contortions, perverted beliefs, bizarre actions which have had no counterpart in stage performances; but in the hands of the honest and capable men to whom I have referred they are all ascertained to be due to the influence of suggestion upon persons previously robbed of their will and thrown into the hypnotic state by any of the methods of physical or mental hypnotisation to which I have referred. It may be asked what are the added powers of clairvoyance, prediction of future events, insight into hidden things, and the development of new powers often attributed to somnambulists and hypnotics, and so frequently employed as a means of extorting money. The answer is given in one word—imposture—imposture—imposture! It is an imposture which has frequently recurred, and, though often exposed, is so

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lucrative and so attractive to the mystics and the so-called psychological researchers, that in one form or another it frequently revives.

In 1837 the French Academy appointed a commission to examine the marvels presented by blindfold subjects who had been submitted to what was called animal magnetism. All their pretensions were dissipated; there was neither magnetism nor any power of second sight. This report was disputed. Dr. Burdin then offered a prize of 3,000 francs to any person, somnambulist or otherwise, who could read without the use of his eyes. Six candidates from different parts of France presented themselves, for animal magnetism and somnambulism were then epidemic. A new commission was appointed, new failures occurred. Trials went on until October 1840, when, at the close of a series of ignominious failures, in which the tricks of each pretender in succession were unmasked, the Academy decided that it would no longer take notice of any communications relative to the imposture and folly, miscalled animal magnetism and clairvoyance. The same thing occurred with Sir James Simpson, who twenty years afterwards, when similar pretences were rife in the United Kingdom, and somnambulists and clairvoyants and thought-readers were again taking the field, offered to present a 500*l.* note, which he had locked in a box and placed in a bank, to anyone who could read the number as the note lay in the box. It

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was never claimed. Mr. Labouchere's similar experiment with the so-called thought-reader Bishop is of quite recent date, but was performed under much less rigid conditions, and by a person whose pretensions, although they excited a great deal of attention, were more than usually absurd.

Finally, let me refer to an aspect of the influence of suggestion which as a possible social danger has engaged the attention of lawyers and physicians—the influence of deferred suggestion. It has been shown that not only will a hypnotic subject perform unconsciously, under the influence of suggestion, acts which are dangerous to himself and others, and are in themselves criminal —so that he can be made to thieve, to commit arson, or to attempt violence—but that certain subjects can, there is reason to believe, be made to receive a suggestion having in it a time-element. He can be told, 'On this day week, at a given time, you will return to the hypnotic state, you will go to a given place, you will steal such and such property, or you will attack such and such a person, and you will not remember who gave you the direction.' These are extreme cases, and this is a surprising and dangerous development of the influence of suggestion on the trained and practised hypnotic—that is to say, on the person who has habitually surrendered his will and made himself the creature of another individual.

So complex is the brain as an organ of mind, that

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we cannot attempt to fully explain the mechanism of this operation; but there are facts within our ordinary knowledge which give some clue even to this phenomenon. There is a time-element in all nerve actions and the operations of the brain. It is a very common thing for a person who puts himself to sleep at night to say to himself, 'I will wake at six o'clock to-morrow morning, for I have to catch a train.' This is a familiar example of a deferred suggestion operating at a moment indicated several hours before. In abnormal conditions of the nervous system, a shaking fit of ague will return at the same hour every third day or fourth day. The sensation of hunger is periodic according to the habit induced by the hour of eating. This periodic, chronometric and involuntary operation of the nervous system is imported into hypnotism. There are also other more complicated examples of time-element in the active and passive functions of the brain. There are the two or three well-observed and thoroughly authenticated instances in which persons have been found to live two different lives, with different mental characters and different capacities, at regular intervals in the course of the year; knowing nothing and remembering nothing during the one period of what they were thinking or doing in the other. Which of these should be considered the normal state of brain circulation, and which the abnormal or hypnotic, it would be difficult to determine; but to recall these facts

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suffices to indicate that the introduction of the time-element in deferred suggestion has nothing of the supernatural, implies no conferring of new powers on the individual, and is only the introduction into advanced and highly developed stages of hypnotism, of a functional action which is more or less natural with all brains. The only other examples to which I need refer of the attempt to import into the subjective phenomena described the element of the supernatural and the discovery of an unknown force are the so-called spiritualists and the telepathists. Their pretensions are only a revival under a new form of the old follies and deceptions—often self-deceptions, and still more often impostures—which surrounded the earlier introductions of the errors of the magnetisers, the spiritualists, and the mesmerists of the middle ages. The second-sight and clairvoyance of the witches and the demoniacs, of the mystics and the mesmerists, having been exposed and discredited, the same things are still from time to time revived under new names more suited to a generation which has got rid of some of the nomenclature of the past. Telepathy sounds better to modern ears than mesmeric trance or clairvoyance, but it has no more substantial foundation. It is an attempt to discover whether it is possible to see without eyes, to hear without ears, to receive or convey impressions without the aid of the special senses. The spirit-rappers, the Davenports, the Bishops, the thought-

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readers, the animal magnetisers, have dropped into darkness, and are buried in oblivion. Telepathy is a silly attempt to revive in a pseudo-scientific form such as self-deception of this kind has always assumed, but in a very feeble form, and with very futile and inane results, the failures and impostures of the past. Happily, the belief in telepathy is confined to a few, and those, I am ashamed to say, chiefly in this country. It has had a feeble and lingering existence, and is undoubtedly destined to die a premature death.

To conclude: these delusions, this miracle-mongering, these disordered visions and hysteric hallucinations, this exploitation of the love of the mysterious, these pseudo-magnetic attractions, these sham scientific floatings in the air or fixations of the body, these thought-readings and foretellings, these vain pronouncements concerning unseen worlds and invisible planes of being, these playings on the fears, the hopes, the feeble senses, the eager imaginations, and the ill-balanced reason of the masses, are as old as, nay, apparently older than history. Sometimes in this, as in other things, we are tempted to ask, 'Does the world make any progress, or are we still moving on the same planes and in the same grooves of ignorance and superstition, knavery, folly, and self-deception?' I think we may find comfort, however, in the historical review. It is true that we have still with us the spiritists, the stage hypnotists, the living magnets, the Mahatmas, the

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belated psychical researchers, and the ghost seers. But they are only the stunted remnants, the vestigial and atrophied traces indicating the later stages of ages of development, in which we have outgrown the period when such follies and fallacies were the almost universal heritage of mankind, and led to burnings, drownings, torture, and wholesale misery, when the cataleptics and hypnotics were counted by thousands and sometimes by hundreds of thousands at a time, when imposture was widespread and high-placed, when philosophers were the dupes of their own self-deception, and when the mischiefs of hypnotic suggestion were extended over large districts and sapped the reason and ruined the lives of thousands. There are still performances and publications which in their follies and their capacities for mischief rival some of those prevalent in the darkest periods of ignorance and superstition, but they are at the present time regarded as curiosities and eccentricities, and provoke laughter and derision where formerly they would have led to insanity and persecution.

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HYPNOTISM, ANIMAL MAGNETISM, AND HYSTERIA.[1]

The Magnet in Medicine.

The remarkable properties of the natural magnet, its capacity for action without contact, and the respective attracting and repelling powers of its two poles, have greatly impressed the imagination of mankind from a very early date; and, as Richer,[2] Binet, and Féré have pointed out, the assumption that the magnet possessed some mysterious influence on the body, capable of being turned to account in the cure of disease, was prevalent in the Middle Ages. Magnetic rings were worn to cure nervous diseases, and the electrotherapeutic frauds, follies, and delusions which are so rampant in the present day can boast a very ancient history of trickery, credulity, and folly. Electric rings, belts, and boxes were hung round the body in the time of Cædon. Paracelsus characteristically taught 'that the human

[1] Reprinted from the *British Medical Journal*.

[2] Richer, *Bulletin de la Société de Biologie*, May 30th, 1884. Paul Richer, *Nouvelle Revue*, August 1st, 1882. Binet and Féré, *Animal Magnetism*, 1888.

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body was endowed with a double magnetism—that one portion attracted to itself the planets, and was nourished by them, whence came wisdom, thought, and the senses; that the other portion attracted to itself the elements, and disintegrated them, whence came flesh and blood; that the attractive and hidden virtue of man resembles those of amber and of the magnet, and that by this virtue the magnetic virtue of healthy persons attracts the enfeebled magnetism of those who are sick.'

Mesmer and his Dupes.

Mesmer, who gives his name to the practice called mesmerism, did not think it sufficient to use talismans and magic boxes, but introduced contact and passes with the hand by which to communicate what he called the magnetic virtue due to animal magnetism. He declared that by this method 'the physician may judge with certainty of the origin, nature, and progress of diseases, however complicated they be; he may hinder their development and accomplish their cure without exposing the patient to dangerous and troublesome consequences, irrespective of age, temperament and sex. Even women in a state of pregnancy and during parturition may reap the same advantages.'

I have already spoken elsewhere[1] of the immense popularity achieved by Mesmer's practices, and of his

[1] *Nineteenth Century*, 1891.

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mesmeric *baquets* or troughs filled with bottles of water and iron filings, around which stood rows of patients holding iron rods issuing from the troughs, the subjects being tied to each other by cords and joining hands. Perfect silence was maintained, soft music was heard, and remarkable effects were obtained. Some patients were convulsed, and had to be taken away to a padded room, against the walls of which they might knock their heads without injury; others were thrown into a state of semi-stupor, or in the language of to-day, into a hypnotic state in which they were submissive to the master, and from which his voice or look could arouse them. Some patients became affectionate and embraced each other, others fell into fits of immoderate laughter, shrieking, or tears. The convulsive agitation frequently lasted for hours, and according to the account of an eye-witness (Bailly), these symptoms were preceded or followed by a state of languor or dreaminess, by a species of depression and even by stupor. I quote from Binet and Féré the following graphic account of the proceedings:

> Mesmer, wearing a coat of lilac silk, walked up and down amid this agitated crowd in company with Deslon and his associates, whom he chose for their youth and comeliness. Mesmer carried a long iron wand, with which he touched the bodies of the patients, and especially the diseased parts. Often laying aside the wand, he magnetised the patients with his eyes, fixing his gaze on theirs or applying his hands to the hypochondriac region and to the

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lower part of the abdomen. This application was often continued for hours, and at other times the master made use of passes. He began by placing himself *en rapport* with his subject. Seated opposite to him, foot against foot, knee against knee, Mesmer laid his fingers on the hypochondriac region and moved them to and fro, lightly touching the ribs. Magnetisation with strong currents was substituted for these manipulations when more energetic results were to be produced. The master, raising his fingers in a pyramidal form, passed his hands all over the patient's body, beginning with the head and going downwards over the shoulders to the feet. He then returned to the head, both back and front, to the belly and the back, and renewed the process again and again until the magnetised person was saturated with the healing fluid, and transported with pain or pleasure, both sensations being equally salutary.[1] Young women were so much gratified by the 'crisis' that they begged to be thrown into it anew; they followed Mesmer through the hall, and confessed that it was impossible not to be warmly attached to the person of the magnetiser.

The 'Possessed' and the 'Demoniacs.'

The inference drawn by eyewitnesses and by the subjects of these practices was that 'it is impossible not to admit from all these results that some great force acts upon and masters the patient, and that this force appears to reside in the magnetiser.' Now these conditions and practices will, no doubt, at once be seen to have a very close resemblance and an obvious rela-

[1] Louis Figuier, *Histoire du Merveilleux*, vol. ii. p. 20. Paris: 1860.

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tion to what may be read in the records of possessed persons—or 'demoniacs' as they were called in the Middle Ages—who play so prominent a part in certain phases of history, and in scenes which have been pictorially depicted by some of the great masters of Italy, Flanders, and France, from the fifteenth to the seventeenth centuries.[1] Their pictures of striking and historic scenes of this kind represent phenomena attested by a mass of the most undoubted evidence. It is not the facts of which we need entertain any doubt; it is only of the interpretation of them that we shall be able to afford a more modern version. To Professor Charcot and his pupils—prominent among whom are Richer, Babinsky, Bourneville, and Féré—we are indebted for a long series of masterly, laborious, and original researches on the subject of hypnotism, its near relative hysteria and the whole chain of conditions belonging to the family of hypnotism. Professor Charcot's luminous researches are epoch-making in this department of knowledge, and his extensive collection of photographic reproductions of hypnotic and hypno-hysteric patients is replete with treasures of nerve aberrations.

[1] See Richer's *Les Démoniaques dans l'Art*.

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The Key to the Phenomena Subjective and Resident in the Patient.

It will, no doubt, readily occur to the minds of those who are at all versed in the scenes now witnessed from time to time that the occurrences, so vividly represented in the pictures already referred to, and those described as occurring among the patients of Mesmer under the influence of holding the iron rods attached to his bottles and iron filings, are from time to time reproduced in these our modern days on the platform of the hypnotist, by the faith-curer, and amongst the pilgrims to Lourdes. But as we are less apt to speak now of demoniacs and possessed, these appearances are usually characterised by words selected from a pseudo-scientific and not from the theological vocabulary. I may say at once that I am now leading up to the demonstration that the conditions induced, whether of convulsion, cataleptic immobility, languor, submissiveness, trance or acceptance of suggestion and command, may be shown to be due to a nervous condition or mental state arising in the individual subject either from physical or mental excitation; and further that such conditions, by whatever distinctive names their varieties may be called, are not and never were due to any healing power or to any fluid or magnetic influence or mesmeric or hypnotic power resident in the

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operator. It is a common delusion that the mesmerist or hypnotiser counts for anything in the experiment. The operator, whether priest, physician, charlatan, self-deluded enthusiast or conscious impostor, is not the source of any occult influence, does not possess any mysterious power, and plays only a very secondary and insignificant part in the chain of phenomena observed. There exist at the present time many individuals who claim for themselves, and some who make a living by so doing, a peculiar property or power as potent mesmerisers, hypnotisers, magnetisers, or electro-biologists. One even often hears it said in society (for I am sorry to say that these mischievous practices and pranks are sometimes made a society game) that such a person is a clever hypnotist or has great mesmeric or healing power. I hope to be able to prove what I firmly hold, both from my own personal experience and experiment, as I have already related in the *Nineteenth Century*, that there is no such thing as a potent mesmeric influence, no such power resident in any one person more than another; that a glass of water, a tree, a stick, a penny-post letter, or a limelight can mesmerise as effectually as can anyone. A clever hypnotiser means only a person who is acquainted with the physical or mental tricks by which the hypnotic condition is produced; or sometimes an unconscious impostor who is unaware of the very trifling part for which he is cast in the play, and who supposes himself

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really to possess a mysterious power which in fact he does not possess at all, or which, to speak more accurately, is equally possessed by every stock or stone.

Hypnotism and Hysteria Conditions of Disturbed Equilibrium.

The condition of hypnotism, mesmerism, &c., is a mental condition—a condition of disturbed equilibrium of the nervous system and brain apparatus of the person operated on. With that key to unlock this curious cabinet of mysteries, delusions, and veritable phenomena, we shall be able the more easily to understand the interpolated illustrations of hypnotic and pseudo-hypnotic patients and conditions. They represent patients in the Salpêtrière Hospital who present all the conditions usually spoken of as due to the mysterious power of the hypnotiser or the mesmerist, and associated with the exercise of some mysterious influence by that sinister personage, by his command of the imaginary fluid, magnetic, electric or telepathic, supposed to issue from his finger ends, or to emanate from his body. These phenomena are the induction of sleep or partial sleep, of cataleptic lethargy, of the loss or temporary abolition of ordinary sensation, of incapacity for feeling pain on being pricked or cut, and loss of taste, so that neither pepper, salt, nor any nauseous substance produces any impres-

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sion on the palate, or any one substance may at the suggestion of the operator be mistaken for any other, as paraffin for champagne, salt for sugar, cayenne pepper for sweetmeats.

The Identity of Phenomena in Hysteria and Hypnotic Suggestion.

Everyone knows something about hysteria. Everyone is acquainted with that ordinary form of hysteria which is characterised frequently by what is known as an hysterical fit and is accompanied by temporary convulsions often not distinguishable from epileptic convulsions, except that the patient, although unconscious, may generally be trusted not to hurt her or himself. Hysterical patients rarely or never bite their tongue as epileptics generally do, but they go through violent contortions, show evidences of various uncontrolled emotions, the fit whether lasting for a short or a long time commonly ending in languor, or a long sleep and perhaps a flood of tears. Here already some resemblance to the hypnotic state and to the condition of convulsionists and demoniacs is apparent. Medical men know, however, and many others have become acquainted incidentally with the fact, that these attacks when of a severe character or in highly nervous and unstable individuals may go much further, and some striking illustrations of most of the phenomena cha-

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racteristic of the extreme degrees of hypnotisation and suggestibility without the employment of any hypnotic influences, and arising only out of the disturbed equilibrium of the nervous system of the patient herself or himself, are here illustrated. I say herself or himself, because hysteria, even in its most highly-developed eccentric and extreme forms, is by no means the exclusive privilege of the female sex, although it is their more general attribute.

Self-suggested Emotions and Attitudes of Hysterics.

Fig. 1 shows a person in a state of what is not hysterical lethargy spontaneously arising in a hysterical patient, but hypnotic lethargy artificially induced. Fig. 2 is a photograph of a female hysteric seized with an attack in which her body is arched in a tetanic spasm, unconscious, and the whole weight of the body in this violently constrained position supported for a length of time by the head and heels. In fig. 3 we return to artificially induced hypnotic condition. The patient will stay in the position represented, into which she can be thrown artificially by a strong light or a loud sound, or by being made to stare at any fixed object, for an almost indefinite length of time. If the most delicate form of register be attached to her uplifted arm, it will be found that there is no tremor or

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unconscious muscular movement, which is not the case with an impostor or with anyone voluntarily assuming this posture for any length of time.

To these are added some of the emotional phases and phenomena of hysteria. Fig. 4 is a characteristic picture of hysterical delirium; fig. 5 of a hysterical patient who, in the course of her attack, is under the influence of pleasing impressions; fig. 6, the same patient under a similar self-suggested emotion of anger; fig. 7 shows a hysterical patient who is subject to strong religious impressions, and in one of the periods of her attack falls into the position of crucifixion.

Similar Conditions Induced in Hypnotics by Suggestion, Auto-suggestion, and Physical Impressions.

I now illustrate the artificially-induced hypnotic state, and show how our hypnotic patient is subject to the influence of impulses conveyed to her mind either by the voice of the operator or by self-generated influence in the brain, due to such simple conditions as the position of her muscles and the nature of the attitude in which she is placed. She has already been illustrated in the attitude of fixed and what is called 'cataleptic' immobility; but her hands being raised into the attitude of astonishment (fig. 8), the change of expression in the face should be noted as indicating that the change of muscular attitude and

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FIG 1.

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Fig. 2.

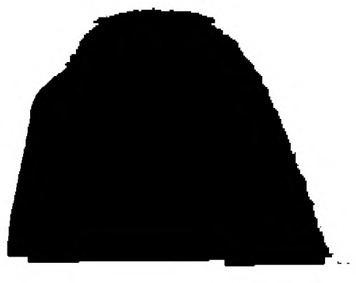
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FIG. 3.

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FIG. 4

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FIG. 5.

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FIG. 6.

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FIG 7.

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FIG. 8.

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the influence of the associated muscular action, related habitually to the emotion of astonishment, have produced that emotion in her mind and it is strikingly depicted in her face. In fig. 9 her fists have been doubled, and she has been placed in a fighting attitude. In fig. 10 her hands are placed in the position in which women, and especially Frenchwomen, are in the habit of going through the little performance called 'throwing a kiss.' Few actresses, I imagine, however able, accomplished, and remarkable for histrionic power and intelligence, could so rapidly assume and maintain the unaffected expression of graceful welcome such as this unconscious and uneducated woman has assumed under the impulse of a brain emotion generated by the simple impulse of associated muscular influence in the related brain centres, unrestrained by the self-consciousness which so often spoils the best acting. Self-consciousness is, in virtue of her condition, completely abolished. She is a mere puppet, the slave of unconscious cerebration excited by external influences and suggestion, or of the suggestion of her own muscles.

Another example of the influence of mere physical suggestion may be studied in fig. 11, a girl in the attitude of prayer. Note the intensity of her imploring expression, which might serve as a study for a painter; the idea of prayer has not been suggested to her by word of mouth, nor is this the self-suggestion of a

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hysteric; it is the attitude induced, and always induced in this particular patient, when hypnotised by the sudden influence of a strong light thrown through the medium of blue glass. The same girl is always dazed and thrown into the hypnotic state under the influence of a strong yellow light. Not only, however, does the whole body of the hypnotised patient or of the highly hysteric patient lend itself thus easily to the influence of physical excitation or suggestion from without, or of ideas aroused by the action of local groups of muscles or of other physical excitations within the body, but individual muscles can just as easily be acted on and separately set in motion. The mere stroking of the extensor muscles of one or two fingers will throw them into extension, while the touching of any set of flexor muscles will produce violent contraction and extreme flexion of the limb.

I hope I have made it sufficiently clear that there are a number of conditions, either spontaneous or artificially produced, in which, while the power of will is abolished, and the brain loses its restraining and controlling power, emotions may be excited, feelings induced, and intellectual operations set in motion, independently of the will of the individual, and without individual consciousness being alive to what is going on. I have endeavoured to show that all these various and allied conditions may and do occur under several sets of circumstances and influences which at first.

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FIG. 9.

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FIG. 10.

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FIG. 11.

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sight seem very dissimilar, but (and this is the central point of my argument) are in reality related by a common bond. The convulsionists and the demoniacs were thrown into strange conditions of excitement, delusion, insensibility to pain and hallucination under the influence of the sight of similar conditions in others or of suggestion by word of mouth, and they became amenable to and were cured by the same agencies.

The Key to the Mystery.

The key to all these phenomena was first given by our countryman, Mr. James Braid, of Manchester, in 1840–50. His explanation is exceedingly well stated in his admirable little pamphlet entitled 'Magic, Witchcraft, Animal Magnetism, Hypnotism, and Electro-Biology,' of which the third edition was published by Churchill in 1852. It was Braid who first introduced the appropriate word, hypnotism, to describe these phenomena. He showed that the effects of the hypnotist are produced by setting in motion certain ideas in the mind of the individual, that the individual always hypnotises himself, and that hypnotism is a state of induced sleep produced by verbal suggestion or by artificial contrivance.

I may add that in repeating over and over again these experiments I have confirmed Braid's results, and have further proved that the will of the operator has

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nothing whatever to do with inducing sleep in the patient. You may, in operating after the varied methods of the mesmerist, the hypnotist, or the electro-biologist, will that the patient shall do whatever you please—sleep or not sleep, but your will, unless it is expressed or indicated to the patient so as to afford him a mental suggestion on which he unconsciously acts, will count for nothing; he will fall into hypnotic sleep. His condition depends on what he thinks you wish and not on what you really wish; and if you set before him a glass of water or a penny-post letter, or put him in front of a tree or a candle, and tell him that you have mesmerised it, and order him to look at it and to be influenced by it, he will be influenced by it whether you have made any passes over it or not, whether you have magnetised it or not, and whether you wish it to influence him or not. You have, in fact, very little to do with the matter as the operator, except in so far as you influence by your suggestion, and by the subject's conception of your will, his nervous system and his state of mind.

Verbally Expressed or Physical Impressions only are Capable of Conveying Suggestions.

In the same way, when once the subject is thoroughly hypnotised the operator can do nothing with him by willing or by wishing unless he express to him in

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words, or indicate to him by some other method capable of physically conveying to him a suggestion, what he wishes him to do or what the subject thinks the operator wishes him to do. Any physical excitation may in this hypnotic state excite physical changes, as I have shown, in his muscular or nervous system, which will in their turn give rise in the subject to mental emotion, to hallucinations, or to self-generated acts of the strangest kind. So largely is his restraining brain power put to sleep, and for the time abolished, so largely is his intelligent consciousness held in abeyance, that he becomes a marvellous machine, astonishingly, blindly, actively obedient to the wildest orders or the most *bizarre* suggestions. He can be made to believe himself a cat, a dog, a lion, a rat, and to act accordingly, so far as a human machine can act. His intelligent consciousness of impressions conveyed by the nerves of common sensation or of special sense has been abolished; his skin may be pierced with needles and he will not feel it; mustard or salt or assafœtida may be placed on his tongue, and he will either not taste them or mistake them for anything the operator pleases to name, and he will testify the most genuine and ludicrous dislike of or most intense disgust at the substance placed in his mouth. The operator can induce sentiments of anger, nay even of violent and destructive rage, ecstasy, affection or grief, at will, by verbal suggestions. He has,

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in fact under his hands a marvellous and God-created machine, abased and degraded by the abolition of intelligence and self-restraint.

THE CONDITION PURELY SUBJECTIVE: ANYONE OR ANYTHING CAN HYPNOTISE.

To produce these effects there is no cleverness wanted on the part of the hypnotiser, there is no special power in this matter resident in him; anyone can hypnotise and everyone can hypnotise if he is patient enough, and either scientifically intelligent or ignorantly fanatic. The marvel and the mystery is in the individual operated upon. What is the precise nature of this complex and astonishing mechanism of body and mind which binds together in such singular complexity of relation, muscle and nerve, lower brain, upper brain, nerves of special sense, body and viscera, no anatomist, however accomplished, no physiologist, however learned or acute, can explain. We have before us only the wonderful facts, and they are far more wonderful than any of the sham tricks of the clairvoyant, the mesmerist, or the magnetist who plays upon them and uses them for his purpose of imposture, self-deception, or of vain mystery-mongering.

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The Therapeutic Uselessness and Social Mischief of Hypnotism.

Can these facts be put to any good use? Of this I am bound to say there is no present evidence except with relation to the most insignificant and imperfect results, and in my opinion there is little prospect of any. Esdaile showed long ago that the anæsthesia induced by hypnotism can be employed for the purposes of surgical operation, but the process is so tedious, the duration of anæsthesia so uncertain, and the number of persons whose nervous system is in the unstable condition which makes them amenable to hypnotic influence happily so few, that as a practical method of anæsthesia it is unavailable, and far inferior to the chemical action of chloroform and other narcotic vapours. The same holds good of hypnotism as an ordinary hypnotic. It is far less certain, far more troublesome, much more rarely capable of application, and much more likely to produce mischief, than opium or sulphonal, or any other of a dozen narcotics which are always at hand, are cheap, easily used and under ordinary circumstances innocuous when properly administered.

As to the treatment of other diseases, I have, I believe, read all that is to be read on the subject, whether from the schools of Nancy, Paris, or Vienna, and I have arrived at the conclusion that Professor

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Charcot, with his abundant good sense, his great erudition, and his vast experience, is fully justified in the conclusion at which he and his eminent pupils, Richer, Babinsky, Déjerine and others have arrived; that for curative purposes hypnotism is very rarely useful, generally entirely useless, and often injurious.

The Practice of Hypnotism, except by Skilled Physicians, should be Forbidden.

And here I will end by saying that, since no evident advantage has during forty years of extensive, patient and elaborate trial and research been obtainable by the hundreds of physicians and physiologists who have devoted themselves to the study of the question, it is therefore justifiable to conclude that the practice of hypnotism, mesmerism, electro-biology, and so-called animal magnetism, being almost invariably useless and often dangerous, even in the hands of the most highly skilled, careful and conscientious physicians, is a practice which ought to be forbidden to the unqualified, and is most unfit and improper for platform performances. It is equally unsuited for private amusement and is dangerous and improper as a society game. It is liable to gross abuse, and is frequently the means of fraud and imposture, extortion of money, and degradation of body and mind, and is apt to induce serious injuries to both. The confirmed

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and trained hypnotic subject is a maimed individual in mind and body, and is likely at any time to be dangerous to himself and to society. Instances of these results are so common that I need not follow up this branch of the subject. I conclude by expressing the hope that this outline of the physical facts connected with hypnotic phenomena may help to arm those who have not previously had an opportunity of investigating the subject against the wiles of the impostor and the false suggestions of the somewhat profane persons who endeavour to connect these phenomena with the incarnation of spiritual power and relations in themselves or their favourite 'Sludge.' At any rate, I venture to hope that it may have given some correct ideas of the nature of the hypnotic state, and have cleared away some of the fictions which have been associated with it by imaginative, ill-informed, or interested persons.

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MESMERISM AND THE NEW WITCHCRAFT.

The Forgotten Impostors—The Scientific Studies of Braid, and of Charcot and his School—Experiments and Publications of the author on Mesmerism, Hypnotism, and Hysteria—The Rational Interpretation of the Veritable Facts—Hypnotism, a Subjective Phenomenon—The Marvels of La Charité and of the Ecole Polytechnique—Reports of British Journalists thereon—The Subjects of Demonstration—Definition and Preliminary Phenomena of Hypnotisation: Their Dangers—Methods of Inducing Sleep—'Magnetic' Susceptibility and Perceptions—Blue Flames and Red—Attraction and Repulsion—Magnetised Photographs and Engravings—Stored-up Thoughts in a Magnetic Band.—Psychical Phenomena—Influence of Drugs in Tubes applied to the Neck—Drunkenness without Drink—A Human Cat—Dr. Luys's Demonstration—The Control Experiments—Dr. Luys's Recent Declaration that his Subjects were Unworthy of Confidence—The Moral Dilemma—Appeal to Dr. Luys for Explanations—Details of Experiments with False Magnets and Misnamed Medicinal Tubes—Results of the Control—Some Counter-Experiments—Evidence of Drs. De Cyon, Louis Olivier, and Lutaud—Fact and Fiction in Hypnotism—Hysteria at the Salpêtrière and Hypnotism at La Charité—M. Luys's Testimony to the Dangers of Hypnotism—Letter from a Trained Subject—Hypnotism and the New Magic—The Library of Marvels—A Modern Sorceress—Evidence of Charcot and Babinski—Medical Uses of Hypnotism Limited to Manifestations of Hysteria—Its Frequent Failures even in that Domain—Valueless in the Treatment of Mental Disease (Magnan, Forel,



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Briand)—Hypnotism before the Courts of Law—Inapplicable to Surgery or Obstetrics—Essential Identity of Faith-Cures and Hypnotic Cures—Summary—The Relative Success of the Faith-Cures of the Laboratory, the Chapel, and the Grotto.

I HAVE been spending Christmas week and the early days of the new year in the 'Pays des Merveilles.' For scenic effects and thaumaturgical performances the wards of Dr. Luys, membre de l'Académie de Médecine, at the Hôpital de la Charité, surpass those to which we have all been more or less accustomed at the theatres of magic and the conjurers' halls on the boulevards of Paris or in Piccadilly. Ordinary hypnotic performances have still enough attraction to draw large audiences in the provinces, but they are growing somewhat stale and out of fashion in the metropolitan centres. The spiritualistic tricks of the Davenport Brothers, the reading of names and dates in sealed envelopes, and the appearance of corresponding writings on the arms of mediums such as Foster, the materialisation of flowers and diamond rings out of space, the externalisation of the 'spirit form' of mediums as in the case of Katie King, the slate-writing of Slade, the levitation of Hume, the reinforcement of muscular strength of the Georgian Magnet, have all had their day of sham mystery, of pseudo-marvel and of profitable exploitation. They have in turn retreated into the shadow of obscurity and oblivion or passed to the platform of other conjurers who 'show how it is done.' But the love of

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mystery and the pursuit of the unknown are durable elements in what, in order to be quite modern, must perhaps be termed the psychology of mankind, and 'the public' still clamour to be deceived.

Recently attention has been attracted anew to the phenomena which have been known and described in one form or other for centuries under the titles of fascination, mesmerism, animal magnetism, and hypnotism, phenomena which were for the first time intelligently investigated and rationally explained by our countryman Braid. Since the time of Braid little or nothing had been added to our knowledge of the phenomena in question until Professor Charcot thoroughly studied the subject at the Salpêtrière Hospital, convinced himself of the identity of the hypnotic susceptibility with the condition of hysteria in men and women, and worked upon those lines.

The long-continued studies of Charcot, and of his pupils Binet, Féré, Déjerine, Richer, Bourneville, Babinski and Ballet, and the continuous and much frequented public demonstrations at the Salpêtrière Hospital, naturally attracted great attention to the subject. These studies and demonstrations have helped materially to define and classify the forms and stages of the hypnotic and hysteric conditions.

In a lecture which I gave at Toynbee Hall, and which constitutes the first chapter of this book, I published for the first time the results of a series

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of experiments and observations made by me from time to time during the last thirty years on the facts and follies of mesmerism and hypnotism. These investigations had convinced me, after the employment of rigid test experiments and methods of control, that the familiar and now well-known phenomena of the hypnotic state are due to purely subjective conditions; that there is no fluid of any sort and no influence of any sort tangible or intangible which passes in these cases from the operator to the subject, except a suggestion by word of mouth or visible indications, and that it is quite sufficient that the subject should have the belief that will is being exercised in order that the acts should be performed and the conditions induced which are supposed to be the result of a transferred influence or an unexpressed will. I have repeatedly ascertained by test experiments, which anyone can repeat, that the will or the 'emanations' from the person of the operator, so often invoked as causatives, have nothing essentially to do with the induced conditions in the hypnotic subject. I have ascertained by repeated experiments that the making of passes is a senseless and unnecessary mummery, unless it be done to impress the imagination, and that the introduction of magnets, near or distant, has no real relation to the induced conditions. The sound of a gong or the light of a wax candle, or of a limelight, or an electric light, the striking of notes on a piano-

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forte, the vibrations of a tuning-fork, a look, or a word, the gazing at any bright object such as a metal spoon or a coin, or the mere belief, however false and contrary to the fact, that an external influence is being exercised, have in my experience sufficed to produce in what are called susceptible subjects partial or profound sleep, catalepsy, somnambulism, lethargy, or lucid slumber, and to reduce the subject to a condition of more or less complete automatism. In the more recent lecture on 'Mesmerism, Hypnotism, and Hysteria,' which precedes this paper, I have aimed at showing, and as I believe have shown, how closely these results to which my experiments had long since led me are in accord with the carefully observed facts and elaborate conclusions of Professor Charcot and his school, and I have illustrated by photographs the identity of the phenomena of hypnotism with those of hysteria.

I had of course read for some years past from time to time the statements and publications of a certain school of writers, chiefly French, of whom the most notable is Dr. Luys, physician to La Charité Hospital. I also had the opportunity of seeing a quaint series of experiments carried out some years ago by Dr. Dumontpallier at La Pitié Hospital, which impressed me only as indicating a surprising credulity and a still more surprising ignorance or neglect of the ordinary phenomena of hysteria. The published lectures and re-

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ported demonstrations of Dr. Luys involved so many extravagances and such singular conclusions that I had purposely abstained from going to witness the performances. It was obviously difficult to test them impartially and independently, and it might have been hoped that they would in the end prove innocuous by reason of their extravagance, and would not seriously affect the mind of any large portion of the intelligent public in Paris, as they certainly had not had any success in influencing medical opinion in this country. Shortly before my going to Paris, however, in response to an official invitation to the Pasteur Jubilee, there appeared in the 'Pall Mall Gazette' of December 2 and 15 two articles headed 'Hypnotisers and Hypnotised in Paris,' in which were picturesquely described, and vouched for in evident good faith, performances of an astounding character in the wards of La Charité and at the École Polytechnique by a gentleman of considerable attainments, I believe, in physical science, and of undoubted sincerity. Other articles in the London journals, and in particular two communications on 'The New Mesmerism' in the 'Times,' gave almost simultaneously still greater prominence to these performances. I determined, therefore, to take the opportunity of witnessing these demonstrations and of learning whatever there might be new and capable of verification in this series of experiments. They carried the pretensions of the magnetist and the hypnotiser much further in certain

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directions than had ever before been claimed by serious experimenters in modern times. Moreover and especially, these demonstrations were alleged to be of the nature of scientific and physical experiment, therefore capable of control and test, which is very often not the case where the phenomena presented pretend only to be the result of new mental endowments, sharpened and enlarged intellectual perceptions, or the transference of ideas and thoughts by contact or 'through space.'

The reports of the Psychical Research Society of Great Britain have given only such crude results and inchoate conclusions, that they had never inspired me with much desire to test what I venture to consider the singularly inadequate and even puerile demonstrations which they professed to afford of telepathy and thought transference. But here the existence of broad, strongly marked and palpable results were averred which, if they bore the test of experiment, as it was declared they did, would prove nearly conclusive. On my way to Paris I met a medical friend, Dr. Lutaud, formerly resident in London, now a hospital physician in Paris, and editor of the 'Journal de Médecine,' who undertook to communicate with Dr. Luys, and to ask whether he would be willing to give me a demonstration of his experiments of thought transference, transference of sensibility, externalisation of sensation, influence of medicines in sealed tubes, &c., and of his results, also

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whether I could see the much-vaunted experiments of Colonel de Rochas d'Aiglun. The occasional correspondent of the 'Times' had expressly declared that they were conducted in the wards of the hospital under circumstances which put imposture out of the question. I received in due time a communication from Dr. Lutaud, informing me that Dr. Luys would be at the hospital on the following morning and would afford me the desired demonstration, and that he had further invited Colonel de Rochas to be present and to demonstrate the results at which he had arrived.

Before beginning the narrative of what I saw and of the subsequent steps which I took to verify the causation and to investigate the meaning of these performances, it may be as well to give extracts from these articles, which created a widespread and deep impression on the public mind, in order to explain what it was that I 'went out to see.'

Extract from the 'Pall Mall Gazette' of December 2, 1892.

'Dr. Luys then showed me how a similar artificial state of suffering could be created without suggestion—in fact, by the mere proximity of certain substances. A pinch of coal dust, for example, corked and sealed in a small phial, and placed by the side of the neck of a hypnotised person, produces symptoms of suffocation by smoke; a tube of distilled water, similarly placed, provokes signs of incipient hydrophobia; while another very simple concoction put in

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contact with the flesh brings on symptoms of suffocation by drowning. The intense congestion that these artificial attacks produce might determine the rupture of a blood vessel or the stoppage of the heart ; it is, therefore, unwise to describe the experiments more fully lest anybody should be tempted to try them without proper precautions. But there was an experiment of this nature that should be described, for it serves as a *trait d'union* that will enable me to go from experimental to practical hypnotism. The woman who had been hypnotised earlier in the morning was put to sleep for a second time, and a corked and sealed tube containing 15 grains of brandy was put in contact with her neck. A few seconds later she commenced to make grimaces, and moved her tongue and lips as if she were tasting liquor of some kind. She then began talking in broken phrases : "I'm thirsty ; I want something to drink ; give me something to drink ; my head pains me so ; anyone would say I was drunk." She tried to stand on her feet, and fell heavily down into a chair. "There," said Dr. Luys, who had previously taken his visitors out of the room to explain what would happen on contact of the tube containing alcohol with the hypnotised person, "now, a strange thing is that this artificial state of drunkenness can be transferred to another hypnotised person."

'A man was brought in from an adjoining room and hypnotised. One of his hands was placed in the hand of the woman, and the passage of a magnet along their arms in the direction of the man sufficed to transfer the symptoms of drunkenness to him. To all appearances he was quite as drunk as the woman seemed to have been a few moments earlier. The transfer of disease to hypnotised subjects is one of the most frequent methods of cure adopted by the doctors in charge of the Clinique Hypnothérapique of the

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Charité. It is not every patient that can be hypnotised and submitted to a course of treatment by suggestion, so this alternative way of profiting by hypnotic methods is in vogue.'

EXTRACT FROM THE 'PALL MALL GAZETTE,'
DECEMBER 15, 1892.

'I was led to study the exteriorisation of the sensitiveness in this way, and it was the merest chance that it happened. One day it happened that I hypnotised a subject on a velvet-backed chair in my office. The subject was taken across the room, and when she was seated at some distance from the chair I accidentally touched the velvet, and, to my surprise, the woman put her hand to her back and showed signs of intense suffering. It was evident that the earlier contact of the subject and the chair had charged the latter in some way. I then tried with a silk-covered chair, but the same result was not produced. Still, the first observation satisfied me that not only was it possible to exteriorise the sensitiveness of a human being, but that the sensitiveness could be stored up in some other substance. At the Hôpital de la Charité you have yourself seen it transferred to a glass of water, and have noticed that while the subject is unaffected by the touch of the hand, or even the pricking of a pin, it suffers excruciating pain the moment you touch the surface of the water with the tip of your finger, though the water may have been carried some distance away from the sleeping person. The water becomes highly charged with the sensitiveness of the individual, but loses it in a comparatively short time. On the other hand, a fat or greasy substance will retain the sensitiveness longer; while, if transferred to a liquid, which is afterwards crystallised, it impregnates the mass for a fortnight, or even longer;

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and during the whole of that period the person, when within a reasonable distance, would be conscious if I touched the charged substance, and would suffer pain if I pinched it violently or attempted to stick a pin into it.'

EXTRACT FROM THE 'TIMES' OF DECEMBER 28, 1892.

'There remains, however, one set of recent experiments which, from their novel and startling character, deserve special attention. I refer to the transference of sensibility from a hypnotic subject to inanimate objects. I have been fortunate enough to witness some of these experiments, and will describe what I saw. They were not carried out by Dr. Luys, but by an amateur who attends his clinic. This gentleman had a roughly-constructed figure, about a foot high, resembling the human form, and made of gutta-percha or some such material, and he experimented with it on a hysterical young woman, one of the hospital patients and an extremely sensitive subject. She was placed in an arm-chair and hypnotised, and he seated himself immediately opposite in close contact with her, their knees touching and her hands placed upon his knees. After some preliminary business of stroking her arms and so forth, he produced the figure and held it up in front of her, presumably to be charged with her magnetism, for these experiments rest on the magnetic theory. Then he placed it out of her sight and pinched it. Sometimes she appeared to feel it and sometimes she did not, but he was all the time in actual contact with her. Then he held it where she could not see it, and this time she obviously suffered acutely whenever he touched the figure and in the place where he touched it, although she did not look at it or seem to observe it. Especially when he touched the sole of the foot it evidently

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tickled her beyond endurance. Then the figure was placed aside on a table out of sight both of the girl and of the operator, while another gentleman put one hand on the operator's back and the other on the figure. I was in such a position as to see them all, and whenever the second gentleman touched the figure the girl felt it. Then she was told that she was to feel it just the same after being woke up, and an attempt was made to wake her, but she was by this time very profoundly affected, and the attempt was only partially successful. In this state—that is, still somnambulistic—she stood up and moved from her place. The operator did the same, and being separated from her by some feet he turned his back to her and held the figure in such a position that she could not possibly see it. Then he pinched the back of the figure's neck and the girl felt it at the same moment, but in the wrong place. The place where she did feel it caused her some embarrassment, though harmless enough, as she informed him of the locality in a whisper which I overheard. I can answer for it that she felt something at the moment when he touched the image, and that she could not see it and was not in contact with him, because I was standing almost between them. But she felt it far more acutely when he pinched his own wrist under the same circumstances. That brought the experiments to a conclusion. They occupied at least half an hour, and included a number of interesting details which I have been obliged to omit.

'I shall only offer one comment on this exhibition, which was perfectly genuine. To my mind it in no way proved the transference of sensibility to the image, but it did prove that suggestions and impressions can be conveyed from one person to another by mere contact and even across an intervening space. But that is no new thing in mesmerism.

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Abundant proof of its occurrence is on record, explain it how you will.'

Other reports of a similar character had appeared in 'La Justice,' 'L'Echo de Paris,' and other French journals.

In subsequent articles I shall describe and illustrate the extraordinary performances here referred to. I have been able by control-experiments on the very subjects here described, and on others who have furnished the basis of many of the lectures and publications by Dr. Luys and Colonel de Rochas, to unmask the deception and credulity which have given rise to these strange proceedings. An extensive and pretentious mass of literature has accumulated around them, and both from the Continent and from this country many persons have been attracted to them, and led to attach to them a scientific value which I shall show to be wholly absent. It is, therefore, a case in which firm and plain words need to be spoken; and I cannot shrink from so doing. It is lamentable that such proceedings should be carried on in the name of science, and that one of the greatest of the Paris hospitals should be made the theatre of such inanities and deceptions. The scientific reputation of a department of a great State institution is seriously affected by these mummeries, and the honour of French medical science is injured before the world when the able journalists of the Continent and Great Britain are hoodwinked by

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impostors acting under the shelter of the name of a physician who has allowed himself to be their unconscious dupe and enthusiastic patron. Colonel de Rochas is a gentleman of the most undoubted good faith. Neither can any one for a moment doubt the honour and good faith of Dr. Luys, however much we may regret and even blame the persistent credulity he has shown and the inadequacy of the means which he has taken to protect himself and his pupils, his foreign visitors and his right-minded patients from very mischievous deception, and from contact with a certain number of persons, all communication with whom ought for many serious reasons to be shunned. For in connection with some of the subjects of demonstration there are underlying questions for the notice of the police and the correctional tribunals to which I desire to call the attention of M. Monod and the Council of the Assistance Publique over which he so ably and worthily presides.

In order to give an idea of the practices in vogue in the so-called hypno-therapeutic department of La Charité Hospital, under the direction of Dr. Luys, and of the principal performances which are given there, I will briefly summarise the leading features of some of those shown to me by M. Luys during several of my visits to his clinic. I may mention that both Dr. Lutaud, who accompanied me on one or two of these visits, and who had in the first instance communicated with Dr.

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Luys on my behalf, and Dr. Sajous, the editor of the 'American Annual of Medical Sciences,' who was also present on several occasions with me at La Charité, explained to Dr. Luys, at the outset, as I took occasion to do myself, that I was of a sceptical, as well as of an inquiring turn of mind, with some experience in these matters, and that it was desirable only to show me phenomena which he could rely upon as genuine, and which would bear investigation.

The subjects on whom Dr. Luys demonstrated were chiefly two patients in the hospital, (1) a man named Mervel, whom I shall have occasion to mention frequently, and (2) a young woman, Marguerite. There were also (3) a girl named Clarice, a former patient, who arrived at the wards on New Year's day as a visitor, and who had for a long time previously been a patient and the subject of lectures and demonstrations by Dr. Luys, but who has since, and does now, largely make her living out of her accomplishments, infirmities (and, I must at once add, her tricks), as a trained subject; (4) a woman, whom I shall speak of as Madame V., who was present at my first visit, having been brought there by Colonel Rochas d'Aiglun, and on whom were displayed all the phenomena known under the mystical and pseudo-scientific names of profound hypnosis, externalisation of sensation, transference of sensibility to inanimate objects, sensitivisation of the atmosphere, &c.; (5) a subject, Jeanne, long

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an inmate of the hospital and still a subject of demonstration there, who has set up for herself, and is a thriving practitioner as well as a subject in hypnotism. There was some monotony in the repetition of these performances from day to day, so that for the purposes of condensation and classification I shall name them in their generic order, rather than in the precise succession of daily dates in which they occur in my note book.

First, as to the general character of the preliminary phenomena, Dr. Luys professes to base himself on precise experiments demonstrating the principal phenomena of what he calls 'great hypnotism,' as described for the first time in France in masterly fashion by his eminent colleague of the Salpêtrière, Professor Charcot, who would, however, be far from endorsing either the experiments or the conclusions of Dr. Luys. But he adds to those special researches a series of documents personal to himself collected in the Charité Hospital, where he finds a younger, neuropathic population 'nearer the initial period of these maladies, and even on the borderland of the physiological condition.' I may say that I found no physiologically sound persons at the Charité under experiment, but those on whom he demonstrated were profoundly neuropathic, with the exception of Madame V. (Colonel Rochas d'Aiglun's subject), and 'Jeanne,' of whom I shall have much to say later on, both of whom appeared to be as perfect in health at the present time as they are in imposture.

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Dr. Luys reproaches the Nancy school with having only studied certain sides of 'minor hypnotism,' and with having put forward only the phenomena of lucid somnambulism with concomitant catalepsy and suggestibility, mixed conditions which he considers as intermediate phases and incomplete sketches of the 'greater hypnotism' imperfectly developed. To these phenomena of the 'minor hypnotism' he attaches the investigation of manifestations of 'fascination,' as graphically described by Brémaud.[1]

Hypnotism Dr. Luys defines as an extra-physiological experimental state of the nervous system, an artificial neurosis which one develops in a predisposed subject, a pseudo-sleep which is imposed and during which the subject under experiment loses the notion of his or her own existence and of the external world. The definition is sufficiently risky and, as will be seen in the sequel, does not apply in its main features to any of the subjects whom he showed me, and who have so often afforded during a series of years the material of his lectures and demonstrations. He recognises, however, very clearly that what he supposes himself to excite experimentally is a true though temporary condition of mental alienation; the hypnotised individual, he says, having become unconscious of his acts and words and

[1] Brémaud, 'Sur la Production de l'Hypnotisme chez les Sujets Sains de Différents Ages,' *Comptes Rendus de la Société de Biologie*, 1863.

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isolated from his surroundings, is reduced to the state of a true transitory lunatic (*aliéné*). He professes to create experimentally many of the disorders of mental pathology in certain stages of hypnotism, and thus to give the factitious but integral representation of some of the disorders of madness. Moreover, he does not conceal from himself the dangers attending these conditions of rapid, almost instantaneous unconsciousness, in which the truly hypnotised subject becomes an inert being, 'a helpless victim to assaults from without.' In the passive state of lethargy or of catalepsy, he says, the subject is absolutely defenceless, exposed to the criminal outrages of those around him or her. A man may be poisoned or mutilated, a woman may be violated and made a mother, or even (as Dr. Luys has known to be the case) infected with syphilis without there existing any trace of the manner in which the outrage was committed, and without the patient preserving the slightest recollection of what has happened. These views and conclusions afford much material for reflection as to possible evils in connection with the general performances at La Charité and with others carried on in private life by persons who have been initiated, apprenticed, and trained there, some of whom still frequent the wards as exhibited subjects, and who carry on hypnotic practices and performances in the outer world with additions, and with all the *éclat* derived from their having been, as they are fond of

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describing themselves, 'principal subjects' at La Charité.

Dr. Luys [1] recognises frankly that a great variety of physical methods suffice to produce the condition of artificial sleep—the presentation of a shining object in front of the eyes, the vibrations of a tuning fork, the ticking of a watch, the sound of a horn, a mere word of command, and, when the subject is sufficiently trained, the mere holding of the finger before the eye. To save himself trouble he has had constructed a framework of small mirrors, rotated by a clockwork movement, before which the subjects for experiment are placed, and as they gaze at it they fall into various attitudes of slumber, fascination, catalepsy, hysteric hallucination, or whatever else one may please to call it. Fig. 12 (copied from a photograph in a volume of Dr. Luys's lectures) shows the effect of the compound mirror on a number of cataleptic subjects after gazing at it. This mechanical hypnotisation might, it would be supposed, have relieved the physician and those who surround him of some of the superstitions with which his practice is loaded, but it has by no means had that effect.

The first series of phenomena presented to me were illustrative, and supposed to be demonstrative, of the extreme sensitiveness of the hypnotised patient and highly trained subject to magnetic currents however

[1] *Leçons Cliniques sur les Principaux Phénomènes de l'Hypnotisme*, par J. Luys. Paris: George Carre, 1890.

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Fig. 12.—Group of eight persons under the influence of a rotatory mirror apparatus (after Luys).

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feeble, to residual magnetic impressions, to magnetic effluvia, to the perception of coloured luminous atmospheres radiating from and playing around the poles of a magnet or the anodes of a faradic machine, and to flames and effluvia of like character proceeding from the features, the fingers and the hands of the human subject.

The subject presented to demonstrate these phenomena was the man Mervel, who indeed played a great part in many of the subsequent demonstrations—a sad and unhappy being, extremely pathological in his neurotic aptitudes and infirmities, an undoubted hypnotic and hysteric, but with all the cunning so often superadded to this condition and commonly playing a large part in the clinical picture derived from such performances. I may as well at once give a few outlines of his clinical history, as he told it to me. He came into the wards on November 25, 1891; his present illness dated from June 22, when he had fallen from the first floor under an attack of fright when carrying a case weighing 120 lbs: Three days afterwards he had an attack of lethargy, lasting from eight to twelve hours. He was very well up in the nomenclature of his own case, as indeed are most of these people. He told me he was the victim of heredity, that his father had died of apoplexy, his mother was very nervous, and his sister, when 19 years old, had suffered from attacks of hysterical lethargy. He himself had walked in his sleep while a boy, and

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was 'born a somnambulist.' Since he had been in the wards he had been treated by prolonged hot baths and lengthened sittings of induced sleep. At one time he said he could not be made to eat, but he had been made to eat 'by suggestion,' and now had a very good appetite. He was still subject to attacks of lethargy and unconsciousness, and had on the previous morning been picked up in the courtyard where he had fallen senseless, and also to fits of somnambulism; he was sleepless, depressed, haggard and altogether a miserable personality. Having put him to sleep, or what looked like hypnotic lethargy, almost instantaneously, by holding two fingers before his eyes, and having rapidly brought him into the lucid stage of somnambulism with the eyelids open, Dr. Luys took into his hand a bar magnet and handed it to the hypnotised Mervel. 'What do you see,' he said, 'from that pole?' Presently Mervel's features, which up to that moment had been expressive only of stupor, became animated and smiling, he caressed the end of the magnet with both hands. 'Ah,' he said with delight, and like a child playing with some beautiful new toy, 'see the blue flames; it's blue, the flames are playing about, it is the colour of the sky—the colour of heaven.' Then the bar was reversed, and the opposite end was shown. 'Ah,' he said, 'that's red.' His features contracted, his brows were knit, his face was expressive of horror and fright. 'Take it away,' he said, 'it's red, red; I don't like it, it hurts me.'

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Instead of taking it away, however, it was pointed at him. He rose from his seat and moved rapidly away from it backwards, and nearly fell in his retreat to the end of the room. To restore his equanimity the reverse pole was again presented to him. Once more he instantly changed his expression. His features were lighted up with pleasure. 'Ah, c'est bleu;' and he followed the magnet to his seat and fell back into the chair, caressing the magnet as though with extreme delight. These phenomena, Dr. Luys explained to me, were constant, and were related to the attractive and repulsive effects of the north and south poles of the magnet respectively, and to the coloured flames which highly sensitive subjects in the somnambulistic state saw emanating from them.

This proceeding was varied in different forms. Thus on another occasion Dr. Luys took out of his pocket two photographed papers mounted on cardboard and contained in envelopes. One of these, he explained, had been placed in front of a magnet, and the surface of the magnetic pole had been slowly photographed on to it, the other had been simply exposed to the light; both presented a tolerably uniform and fairly similar blackened surface, but with easily-recognisable differences of coloration. When one of these was presented to the patient he again became ecstatically delighted. 'Ah,' he said, 'it's blue, light blue, the beautiful flames are playing on the surface.' This, it seems, was the

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magnetic photograph. Then the other was presented to him. He looked at it with a vacuous, indifferent, and uninterested expression. 'Ah,' he said, 'it's dark, it's grey, I don't see anything.' This was the unmagnetised photograph. Again he was shown a photograph of Dr. Luys himself, which he examined with great interest. 'Yes,' he said, 'it is full of lights and colours, there are red flames issuing from the right eye and from the cheek and mouth and ears on one side of the face, and from the other come blue flames, all blue.' 'That,' said Dr. Luys, 'is how he sees me, and, strange to say, the same magnetic flames are seen by him on my photograph. And what is still more remarkable,' added the professor, 'if you give him an illustrated paper he sees blue and red flames radiating from the printed pictures taken from photographs of living individuals, but never from fancy drawings or engravings which have not been photographed from the living subjects in the first instance.'

A further phenomenon and final marvel in this order of ideas was at more than one sitting presented in the same subject. He was thrown into slumber, and a circlet of magnetised iron was placed round his head and forehead. 'In that magnetised head cap,' said Dr. Luys, 'are stored up the thoughts and ideas of a patient who had been the subject of hallucinations of persecution and of black misery. You see that Mervel is now happy and contented enough, but if I now put

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this magnetised coronet on his head, he will become impregnated with those influences and that order of thought.' This was done, and very quickly his features became haggard, his expression that of melancholy and fear; presently he struggled, with horror and fright depicted in his face, to escape from imaginary persecutors. 'They are following me,' he cried out; 'I can't get away from them, they are torturing me,' and he endeavoured vainly to escape. Presently the circlet was taken from his forehead, he was told to be calm, and soothed and sent again into profound sleep, then told that he was to awake forgetting all that had happened and to pass a happy day and be very well. He did awake with a dazed look for a short time, and presently said, smilingly, in answer to questions, that he was feeling well, that he did not remember that anything had happened, and that he was going to have a quiet, pleasant day. Dr. Lutaud, who was present with me at this performance in the wards, wickedly observed to Dr. Luys that this newly-found power of storing up habits of mind and thoughts in a magnetic frontal might have some very convenient uses, especially as this set of ideas had already been stored for six months in this particular apparatus apparently not by any means exhausted by use, and was capable of application within a period of time of which experience had not yet prescribed any limits. It was almost too much for our gravity when Dr. Luys seriously replied

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that no doubt it was so and might be made very useful, and that he was using such crowns with good therapeutic effects on his patients. Dr. Lutaud observed that a husband about to lose a beloved wife might store up in such a circlet her affectionate thoughts and good disposition, and might on marrying again infuse these delightful qualities into the brain of his second wife. To this, also, Dr. Luys assented. These were the leading phenomena presented in connection with the magnetic susceptibilities and perceptions of the hypnotised subject. They were repeated on other subjects, Clarice, and later on, in my own apartments, Jeanne, a celebrated subject of Luys's lectures, reproduced them to perfection. Figs. 13 and 14 are reproductions of two photographs, which Dr. Luys handed to me as illustrative of the above phenomena of attraction and repulsion of the negative and the positive poles of the magnet and of the red and blue flames issuing from them. He showed me also a portfolio of drawings for future publication, in which Mervel in somnambulistic condition had drawn the coloured flames which he saw issuing from magnets, radiating from the features of Dr. Luys himself and of various patients, and playing around the different parts of electro-magnetic apparatus. At a later stage Mervel was good enough (always in his somnambulised state) to favour me with a portrait of the flames which he saw radiating from my eyes and nose and ears. It is an interesting though far from

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FIG. 13.—Hypnotic subjects influenced by the action of the north pole of a magnet (from a photograph by Dr. Luys).

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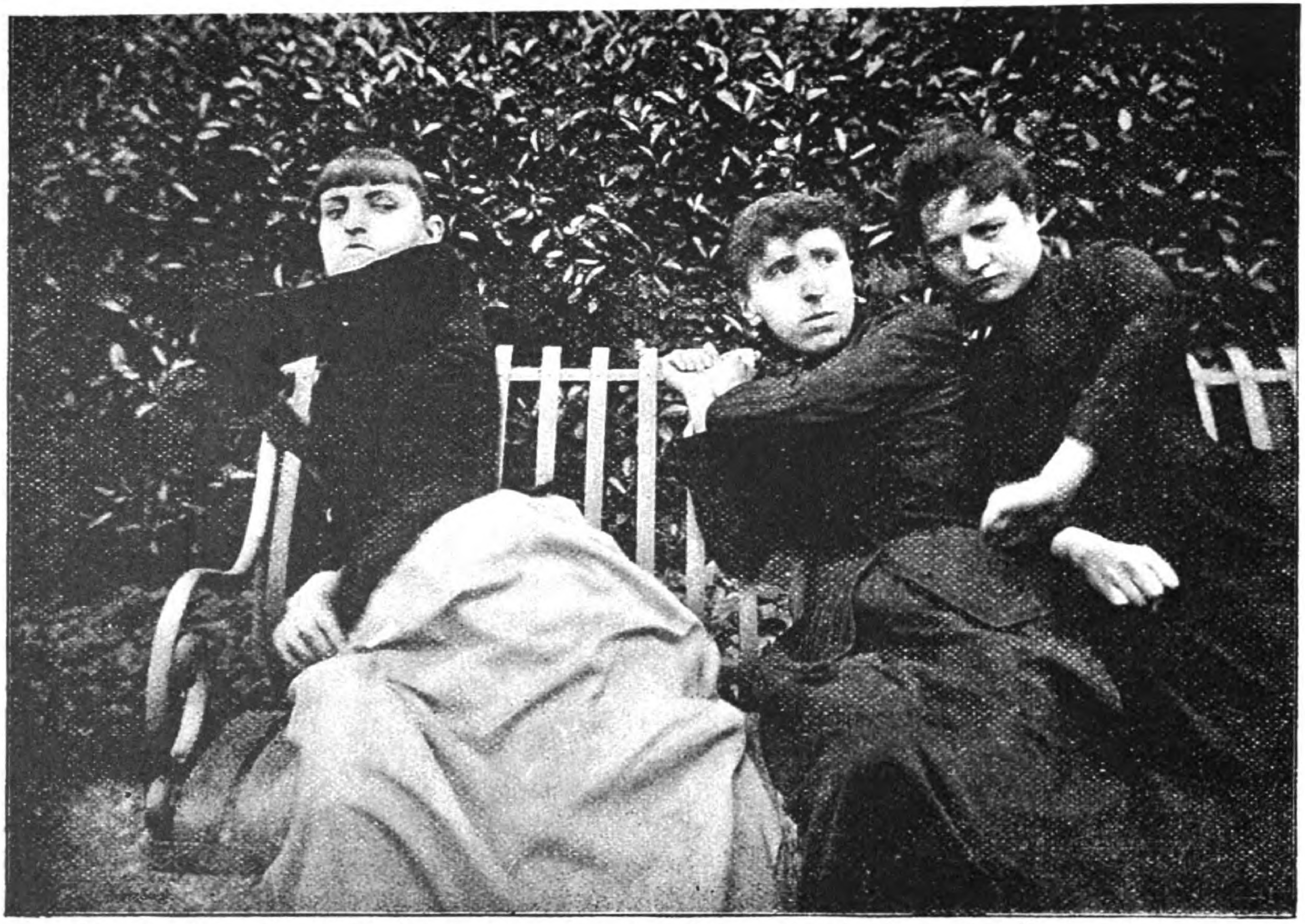


FIG. 14.—Hypnotic subjects influenced by the action of the south pole of a magnet (from a photograph by Dr. Luys).

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artistic document, which I may reproduce a little later on, when I come to relate the counter-experiments by which I easily demonstrated, in the presence of Dr. Lutaud, Dr. Sajous, M. Cremière, Dr. Olivier, and others, that the whole of these phenomena in all of these patients and subjects were, as might have been expected, frauds, impostures, and simulation, originating, no doubt, in suggestions made to them, lectures given before them, documents communicated to them, and verbal conspiracies hatched in the waiting-room, carried out in the wards and cleverly worked up by practice to an extraordinary degree of perfection. So wonderfully dramatic were the attitudes and expressions, so graphic, although monotonously similar, were the expressions displayed, so mixed and interwoven were the really hysteric, cataleptic, and somnambulistic conditions presented, heightened and combined by conscious fraud, that it was difficult not to be startled by the extraordinary series of performances shown, and almost impossible at first to divide the basis of reality from the huge superstructure of histrionic fraud and impudent imposture. I may say at once, however, that I succeeded in all of these subjects, and before the same witnesses, and on the same subjects, in reproducing all the phenomena by methods which were quite incompatible with any truthfulness or reality in the acts or in the explanations given of them; but before proceeding to this part of the story, I will summarise another series of phenomena

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showed to me by Dr. Luys, including some which were shown to me under his auspices by Colonel Rochas d'Aiglun on a specially 'susceptible' subject brought to the wards for the purpose. These were the so-called emotional and psychical conditions, transfer of thought, transfer of sensations by contact and at a distance, the communication by contact from patient to patient of diseased conditions of body and of mind, the production of drunkenness in a patient by applying a small sealed tube containing alcohol to the skin, the transfer of that drunkenness to another patient by contact of the hands; the vibrations, as Dr. Luys explained, being probably transferred from body to body by such contact, the production of hallucinations and visions by skin contact with a tube containing medicinal substances, the production of anæsthesia in the patient, and the transfer of her sensibility to the air surrounding her in different planes and for given distances, the transfer of her sensibility to a glass of water held in her hand, and similarly to a wax doll—such sensations, so transferred, being re-induced in the patient when the glass of water or the figure was stroked, pinched, pricked, or otherwise tickled or tortured at a distance from her, and in positions where it was understood that they could not be seen, and that she was unaware of what was being done. These phenomena form another chapter in the strange demonstrations which, to avoid mystification, I may venture at once by anticipation, however disrespectfully, to de-

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scribe as fantastic and outrageous, but all of which are seriously presented as new truths of science to a select band of students and medical visitors, in this great Paris hospital. They would hardly be worth serious notice here but for the solemn arena in which they are transacted—a hospital ward in which the 'Times' correspondent stated that fraud was impossible—the solemn scientific nomenclature under which they are described and classified, the considerable vogue which has been given them by the descriptions of eminent journalists, the extent to which they are already permeating the higher ranks of society in Paris and attracting ladies of note from England, and the ramifications with which I have found them to be connected.

It would occupy too much space to give even a summarised version of the extraordinary performances shown in the wards of the Charité as evidences of the existence of phenomena illustrating the transfer of sensations by mere contact, the influence of medicines placed within a sealed tube and brought in contact with the skin. I shall, therefore, only briefly describe a few of the things which passed under my eyes and those of the friends who accompanied me, and will confine myself especially to those of which I was able subsequently to seek the verification or refutation by experiment conducted under somewhat stricter conditions of control than those which Dr. Luys seemed to think necessary. This physician obtains highly pic-

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turesque and truly remarkable results from the mere introduction of substances such as alcohol, pilocarpin, spartein, pepper and valerian in sealed tubes, which he brings into contact with the skin of the neck, placing them inside the collar of the dress.

Operating upon Marguerite, a patient in the wards, on whom I subsequently had the opportunity afforded to me of repeating a controlled experiment, he took from his pocket a tube containing alcohol. Marguerite had already been placed in the required condition of hypnotic sleep, and at the given stage at which these phenomena are supposed to be most readily producible. 'I will now,' he said, 'place this tube of alcohol in contact with her neck, and you will see the result.' I ventured at this point to take M. Luys aside, and suggest to him that, as he had said that he was going to use alcohol, and that as although he believed the patient could not hear him this might be in some minds an open question, he should insert another tube of a different kind from that he had mentioned; but to this suggestion he objected, and insisted on performing his own experiments in his own way. Dr. Luys attaches great importance to the place in which this tube is brought in contact with the skin, and considers that this region of the neck, the seat of great nerve plexuses, freely connecting the cerebro-spinal with the sympathetic system, is an especial point of sensibility. The tube contained about ten drachms

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of cognac. The effect on Marguerite was very rapid and marked; she began to move her lips and to swallow; the expression of her face changed, and she asked, 'What have you been giving me to drink? I am quite giddy.' At first she had a stupid and troubled look, then she began to get gay. 'I am ashamed of myself,' she said; 'I feel quite tipsy': and after passing through some of the phases of lively inebriety she began to fall from the chair, and was with difficulty prevented from sprawling on the floor. She was uncomfortable, and seemed on the point of vomiting, but this was stopped, and she was calmed.

Clarice, another hypnotic, a former patient and what is termed a highly-trained subject, who is now pursuing a career outside of the hospital, and who had looked in on a visit, was hypnotised, and placed in a chair alongside of Marguerite. Her hand and that of Marguerite were clasped together. 'Now,' said Dr. Luys, 'we will see if the vibrations characteristic of this nervous condition will be transferred by contact, from one to the other.' Very shortly Clarice went through the same stages; she, too, presently became giddy, facially disturbed, disordered in gesture. She passed through the stages of drunken gaiety and then of profound inebriety with muscular resolution. The performance was completed by waiting a few minutes in order that the effect which, as Dr. Luys observed,

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had been produced by the cognac on the nervous system of the subject, might be dissipated.

As another order of phenomena was to be demonstrated that day according to the programme, no more tubes were then introduced, but on another visit we witnessed a similar and even yet more dramatic incident of the same kind. This was the influence upon the organism of valerian in a sealed tube. The subject on whom this phenomenon was intended to be exhibited was Jeanne, of whom I have already spoken, who is a favourite subject for Dr. Luys's demonstrations, and of whose sincerity and remarkable endowments he speaks in various parts of his lectures with much enthusiasm. For reasons, however, of a very prosaic order, which Jeanne subsequently explained to me, she did not think it worth while to appear at the thinly attended clinic of the holiday season, the period of my visit. The ever-faithful Mervel was therefore utilised for the valerian performance, although, as Dr. Luys explained, he was not sure it would succeed. Mervel's accomplishments, however, were undervalued. He did succeed, and the event came off to perfection. When the valerian tube was placed in contact with his sterno-mastoid, his face expressed first great amazement, then total change of expression, with singular muscular contortions; presently he began to twist about strangely in his chair, clawing the air. As I was not prepared for the sequel, I spoke to him and asked him what was

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the matter. In many previous experiments he had answered quite intelligently the questions which I had put to him in his hypnotic state, which a little surprised me, for I was not supposed to be *en rapport* with him and it is often stated that hypnotised patients can only answer questions put by the actual operator. This, however, did not appear to be the case with any of the subjects at the Charité, and, in fact, I have often observed that this is a matter of training, and that in point of fact such patients can or cannot answer by-standers, according as they think they may or can. In this case, however, Mervel was mute. 'He cannot answer you,' explained Dr. Luys. 'He is being transformed into a cat, and cats cannot speak; and therefore he cannot speak.' Presently the unhappy being threw himself on to the floor, sprawling on all fours, and began clawing, scratching the boards, making little leaps and springs of an awkwardly feline character, then spitting like a tom cat, and mewing. He followed us across the room with the simulated actions of a highly-excited human cat, scratching at our clothes, mewing, and becoming very much excited, with a livid and congested face. For pity's sake I begged that the performance might be ended, and he was put back in his chair, quieted, and presently brought to himself. He professed to have no recollection of anything that had happened. These were the only two experiments of the kind which I saw in Dr. Luys's wards, but I will

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quote from one of his lectures his own account of similar experiments on other subjects, illustrated by drawings from his own photographs :—

'Here is, in fact, a second tube containing 10 grammes of distilled water. I place the tube in the same place as before, and you will see the specific character of the phenomena which are about to be displayed. In this case the subject does not quite reach the stage of somnambulism, he does not speak, the phenomena start from the great apparatus of respiration; it is the laryngeal nerves that are put in action. You hear a noise of whistling inspiration, then a true stridor from development of spasm of the glottis. At the same time the thyroid region swells, the face becomes congested, and the masseter muscles are in a condition of trismus. It is impossible to open the mouth; it is a real stage of artificial hydrophobia which is thus induced by the action of water; and if the process is allowed to go on, you see that this tetanic state of the muscles of the jaws spreads to the back and the limbs, and we see pass rapidly before us a true generalised tetanus. In order to bring all this series of symptoms to an end—since if they were prolonged by guilty hands they might evidently bring about grave complications in connection with the thoracic viscera—I quickly remove the tube, and you see that on this occasion as on the former, *sublatâ causâ tollitur effectus*. The respiratory movements become regular, relaxation

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of the muscles insensibly takes place, and Gabrielle returns to a stage of normal lethargy.

'After having at the end of some minutes ascertained that the subject has got rid (by the return of neuro-muscular contractility) of the last traces of shock which she has previously undergone, I present to her this tube containing a 1 in 10 solution of sulphate of spartein. The reaction will here be as significant as possible, and altogether different from those effects you have hitherto seen. Take note of them as they pass, because I am unable to prolong these experiments, so great, in my opinion, is the risk of causing unforeseen accidents in connection with the thoracic viscera. You see that I place the tube in the same place, and I consequently provoke a reaction by means of the same underlying nervous plexuses. It is evident that the laryngeal, pneumogastric, and sympathetic nerves are sharply stimulated. See, indeed, what occurs with increasing rapidity. The subject at first exhibits some contractures of the face; then instantaneously the respiratory movements become accelerated and are repeated in an anxious manner; then they stop, and with astonishment you behold that they cease completely. At the same time note the swelling of the thyroid body, how the face becomes turgid and purple, and how the beatings of the arteries show themselves in the neck with excessive fulness; the sight of this enormous distension of the capillary system in the face makes one

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think of a possible rupture of the arterial walls, which, however little brittle they may be, might set up instantaneous hæmorrhages to a more or less serious extent. I do not insist, gentlemen, on this experiment, which I never repeat without a certain dread. You see the powerful action which bodies at a distance produce on a subject in a state of hypnotism. These are new conditions of receptivity thus created in the human organism, and I believe it to be my duty from the medico-legal point of view to give you a sample of these complex phenomena which open up new vistas in the domain of crime. I will in your presence awaken Gabrielle in the usual way, and you will not be surprised if you see, on her awakening, how unconscious she is of all the disturbances she has undergone in her inner being, and at the same time that she retains no recollection of the previous experiments.

'I now present, as a second subject, Esther, who has already appeared before you. I put her to sleep in the usual way, and as soon as she is in a state of lethargy I place at the side of her neck this same tube filled with cognac. Wait some seconds and see what is about to take place. At first some grimaces occur, followed by movements of the tongue and lips, as when one tastes a liquid; next, passing like Gabrielle into the stage of somnambulism, she utters broken sentences: "I am thirsty—I want a drink—give me a drink." The speech is that of a drunken person; the voice is

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FIG. 15.—Esther under the influence of a tube containing a small quantity of essence of thyme; this tube is applied to the nape of the neck on the right side at the back. She is a prey to terrible hallucinations.



FIG. 16.—Esther under the influence of hydrochlorate of morphine. The tube has been placed in front of the left eye, and the face expresses very clearly a state of beatitude.

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thick and the tongue sluggish. She says: "I am drunk without drinking." She tries to get up from the arm-chair and falls back heavily, doubled up on herself. I remove the tube and you then see the same symptoms which you have before seen take place occur in reverse order—namely, the movements of tasting and the grimaces. Esther ends by falling back into lethargy. I wait some minutes for the shock which has gone through her nervous system to disappear, and after having recognised, by means of the return of normal muscular hyperexcitability in the forearms, that this effect is exhausted, I apply to the neck the tube previously used, but now containing water. Almost immediately you see strange phenomena occur, which develop in the stage of catalepsy without somnambulism. Instantaneously Esther's face assumes an expression of terror, her eyes are widely open, haggard, and fixed; the features of the countenance are motionless, the masseters rigid, which makes it impossible to open the mouth. In a few cases I have even seen saliva flow from the mouth like froth, at the same time the muscles of the tongue become rigid, and a generalised tetanic condition develops. If you examine these symptoms as a whole, are you not led to see in the general expression of the subject the experimental symptomatology of hydrophobia? And the tube which provokes all these disturbances only contains 10 grammes of water. I do not insist on this, and I content myself for the moment

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with calling your attention to this effect—namely, that the reaction which has just taken place in Esther before you is entirely different from that produced by the previous tube containing cognac. I take away the tube, and you see that the ascending march of the phenomena observed is interrupted, and that little by little the subject, deprived of the incitatory stimuli supplied by the external agent, instantaneously falls back into the stage of lethargy from which she had been roused by means of it. I wait a few minutes before applying the third tube, in order that the muscular excitability may return. This, I repeat, is of the greatest importance in order to avoid the risk of the successive reactions of the nervous system being influenced or even entirely modified one by the other.

'I now place the third tube, containing the spartein solution, close to the neck. Hardly has it been placed there before reaction begins, as you see. The nerves of the neck, in a condition of hyperexcitability, instantaneously transmit to the centres the new incitations which act upon them. The respiratory movements are quickened, as you may see; respiration becomes embarrassed; you even hear stridor now and then; at the same time redness and cyanosis of the face and a characteristic turgescence of the eyes announce to you that a profound disturbance has taken place in the circulatory apparatus. The veins of the neck are swollen, there is an expression of terror in the face, the movements of

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FIG. 17.—Esther is influenced by a tube containing sulphate of strychnine. The tube is presented at the right side. She seems to be listening to something droll, which makes her laugh.



FIG. 18.—The same tube has been placed in front of the right eye of the same subject. Inverse phenomena. The face expresses profound terror.

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respiration stop, and, if I keep the tube in position any longer, you will see the breathing cease altogether. In presence of phenomena so characteristic, of disturbances so great, re-echoing through all the main parts of the human machine, is it possible, I ask you, gentlemen, to believe that these things are simulated, as a certain number of people who have never made the smallest experiment themselves are so ready to repeat? Whatever desire hysterical subjects may have to make themselves interesting (a desire in which I myself have only a very limited belief), it is unquestionable that this desire can in no sort of way lead them thus madly to jeopardise their existence.

'The interests of science make it necessary that these delicate experiments should be studied and followed up. I never practise them without the greatest precautions, taking care to employ only minimum doses of active medicinal substances, and to produce in the subjects only fugitive effects which are not dangerous for them. Nevertheless, from the medico-legal point of view, penetrate yourselves thoroughly with the consequences which may follow from all that you have just seen. Who, in fact, shall tell us that these symptoms of impending asphyxia and of obstruction of the great vessels, if produced by criminal hands, might not cause pulmonary congestion with hæmoptysis, ruptures of the vessels or of an aneurism, perhaps stoppage of the heart, and then murder having been committed under such

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circumstances, how shall the cause of death be recognised, and how shall the guilty person be discovered? I have now taken away the tube containing spartein, and you see that a general reaction takes place. Esther begins to breathe regularly, the circulatory apparatus recovers its equilibrium, quiet is insensibly re-established, and we arrive, as you see, at the stage of lethargy. I now awaken the subject in the usual way; Esther, passing successively through the stages of catalepsy and somnambulism, reaches the stage of waking, and opens her eyes naturally. She has, as you see, no recollection of what has passed, but, if her memory is dumb, yet a vague sense of fatigue of muscular sensibility persists, and after these disturbing experiments she usually feels out of sorts and slightly depressed during the day.'

I will now pass to the description of the series of experiments which I carried out on the five subjects whom I named at the outset as being those who were presented to me by Dr. Luys and Colonel de Rochas respectively. Meantime I observe that Dr. Luys has stated in the 'Times' of January 31 (the date on which I am writing the present chapter of my experiences) that I was 'unlucky enough to apply to patients to whom he had long ceased to have recourse, being unable to depend on their veracity.'

The patients to whom I had recourse were Marguerite ——, who was the patient actually in the

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wards of the Charité, and on whom Dr. Luys carried out, to use his own words, in my presence and that of Dr. Lutaud, Dr. Sajous, and M. Cremière, 'experiments relative to the psychical action, either attractive or repulsive, of the different poles of a magnetic bar on hypnotised patients.' 'I also showed him,' Dr. Luys continues, 'that glass tubes, containing either brandy or tincture of valerian, applied to the same patients, could determine on them effects peculiar to those substances.' In addition to this, Dr. Luys observes that he 'gave a few simple experiments and demonstrations, showing Mr. Hart, for instance, that when persons are hypnotised, their usual faculties are raised to an extra-physiological pitch, and that the patients see things that we cannot in our normal state distinguish; thus they behold the waves which are developed from a polarised bar, or from a magnetic needle, with their different colouring.' These experiments also were conducted by Dr. Luys at different sittings upon Marguerite and upon Mervel, as I have already described. Dr. Luys considers that the statement which I have published of the results of my control experiments incriminate his honour as a man of science. I have, so far as I know, carefully avoided any comments which could be construed in that sense, although I have thought myself more than justified in intimating that he has pushed negligence in a so-called scientific investigation, put forward by him in great detail and

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with great solemnity for many years, to the utmost verge of blamable want of carefulness. This I shall have no difficulty in proving up to the hilt, and I shall adduce evidence which is incontrovertible and rests not only on my own observation but on that of highly competent and independent observers who were present at my experiments and who have signed the notes of the sittings.

As to the statement which Dr. Luys now makes—that these subjects were persons to whom he had long ceased to have recourse, being unable to depend upon their veracity—I do not know how to characterise it in any terms which in a matter of this sort I should be willing to employ. In the first place I must point out that if Jeanne, Marguerite, Mervel, and Clarice, the four persons whom he brought under my notice and on whom I operated, have long been known to Dr. Luys as persons who were untruthful and guilty of gross impostures; then he charges himself with going solemnly in the wards through a series of performances which he presented to me, to Drs. Lutaud and Sajous, and to M. Cremière as reliable evidences of the phenomena he undertook to demonstrate on them. It was with Marguerite, with Mervel and with Clarice that he went through the performances of which he speaks and that I have already described. It was on Marguerite and Clarice that he demonstrated, as he states in his letter, the drunkenness supposed to result from placing

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a tube containing alcohol in contact with the skin, and the transfer by contact from Marguerite to Clarice of that drunkenness. It was on Marguerite that in his presence Colonel de Rochas, whom he describes as his fellow-labourer and friend, demonstrated what Dr. Luys also describes as the Colonel's real and extraordinary discoveries of the externalisation of sensation, of the transfer of sensation to the air and to glasses of water. It was on Mervel that Dr. Luys demonstrated the extraordinary performance of the transformation of a man into a cat by the contact of a small tube containing valerian. It was on Mervel that he also showed the extra-physiological acuteness of vision, which enabled this man to behold the waves developed from a polarised bar or from a magnetic needle, with their different colouring. It was on these subjects, and no others, except Madame Vix and Jeanne, that I operated; and it was with these subjects that I ascertained and proved to the satisfaction of those who saw the experiments that the whole performance was a gross imposture. If Dr. Luys knew, as he now says that he knew, that the subjects were impostors, that knowledge, or even the present affirmation of it, would place him in a position which I would be most unwilling to believe—nay, which I do not for a moment believe—him to occupy. I cannot suppose, and will not allow myself to admit, that he was presenting to us as subjects for scientific demonstration in his wards persons whom he had long known to be false

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and untrustworthy. I prefer to think that his letter was written under a sense of irritation, and that the statement to which I refer is one made by him without due reflection and which he will not be willing ultimately to maintain. For Madame Vix he is not directly responsible; though she was the subject brought by Colonel de Rochas to his wards and presented to me there. She was as great an impostor as the others, and Dr. Luys's affirmation of the reality of the phenomena which she presented is nothing worse than a merely reckless and irresponsible endorsement of the veracity of an utterly unreliable woman who subsequently showed herself in the opinion of myself and my friends to be a deliberate falsifier of facts.

There is one other point worthy of Dr. Luys's serious consideration in this matter. If he is willing to admit that Jeanne and Clarice are persons utterly unworthy of belief, as I have proved them to be, and as he now alleges that he has long known them to be, then I must ask him, and I do ask him very directly and very seriously, what reliance can be placed on the whole volume of clinical lectures from which I have been quoting? Jeanne is the woman whose photograph he gave me on the last day of my visit to his clinic, represented as sitting with two others, presenting the most vivid image of delight and attraction towards the blue flames and influenced by the action of the north pole of the magnet, and repelled and horrified under

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the influence of the south pole. His book is full or Jeanne, and he is warm in his eulogies of her exquisite sensibility for hypnotic phenomena, and vouches for her sincerity. He speaks of her sometimes as Jeanne and sometimes as Mademoiselle V., a professor of foreign languages.

I ask Dr. Luys, then, to explain why, if he knew Jeanne and Clarice to be impostors, he presented them, together with Marguerite and Mervel, as witnesses of the truth only some weeks ago? How it is that he has not withdrawn those parts of his lectures which he bases on their performances; and I ask him further to state explicitly who it is among the subjects of my experiments, chosen from his own subjects as being the only persons produced by him, whom he now denounces as having long been known to him as untrustworthy?

I did not raise the question of good faith in respect of Dr. Luys; on the contrary, I expressly declared my belief in his good faith, alleging my conviction that, as these women themselves openly said to me in the presence of M. Cremière and others, Dr. Luys was their dupe. The words of Jeanne were: '*Nous le flouons, tous.*' I gave him credit, and still give him credit, for perfect good faith, although I charge him with incredible looseness in his method of experiment, and with incredible extravagance and error in the deductions which he has allowed himself to make from

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the false phenomena to which his mode of experimentation inevitably leads. He has now raised the question of his own good faith by alleging that he knew and has long known these subjects to be destitute of veracity, and he must settle that question with himself rather than with me. On that subject I am ready to accept whatever declaration Dr. Luys, after full reconsideration of his position, may desire to make. I am satisfied that in such a matter he will be incapable of doing anything which is not fully worthy of his distinguished position as a member of the Academy of Medicine and a physician of one of the great French hospitals. I am satisfied, too, and shall now produce the evidence, that neither Jeanne, nor Mervel, nor Clarice, nor Marguerite is worthy of the slightest credence in anything which they assert they saw or felt or did in respect to any of these performances. But when did Dr. Luys become convinced of this, and, being convinced of it, when and to whom did he first announce it, or first give the warnings due to himself as having acted before the world and to me and those who were with me so late as January 5, as the sponsor of their sincerity?

I turn now to my notes of the results of some of the tests applied by me to Dr. Luys's subjects. I repeated on Marguerite, in the presence of two witnesses, most of the experiments which had been performed on her by Colonel de Rochas in the wards of Dr. Luys and

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in his presence. Dr. Luys had reproduced with her the phenomena of the influence of medicines at a distance, and with her and Clarice jointly the transmission of drunkenness by contact of one patient with the other. On January 6 Marguerite came to my rooms in charge of a medical friend. We began by hypnotising her after the classic method of M. de Rochas and Dr. Luys, putting her through the successive stages already described. I had prepared an electro-magnet of considerable power, from which the current could be turned on or off with great rapidity by touching a button or by lifting the plates from the bath, or of course by detaching one or other of the wires. I had also a bar of iron resembling the magnetised bar which M. Luys had used, but which was not magnetic, a demagnetised magnet, and a set of needles variously and inversely magnetised. I had also two exactly similar wax dolls brought from a toy shop, and two exactly similar glasses of water. We began the proceedings by the *prise du regard*, which was perfectly performed; we then used the magnets. I signalled to the assistant, and told him to put on the current, whereupon he turned it off. Accustomed, however, to believe that a magnet must be a magnet Marguerite began to handle it. The note taken by Dr. Sajous runs thus: 'She found the north pole, notwithstanding there was no current, very pretty; she was as it were fascinated by it; she caressed the blue flames, and showed every sign of delight. Then

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came the phenomena of attraction. She followed the magnet with delight across the room, as though fascinated by it; the bar was turned so as to present the other end, or what would be called, in the language of La Charité, the south pole, then she fell into the attitude of repulsion and horror, with clenched fists, and as it approached her she fell backward into the arms of M. Cremière, and was carried, still showing all the signs of terror and repulsion, back to her chair. The bar was again turned until what should have been the north pole was presented to her, she resumed the same attitudes of attraction, and tears bedewed her cheeks. "Ah," she said, "it is blue, the flames mount," and she rose from her seat, following the magnet round the room. Again the pole bar was reversed, and once more she exclaimed that she saw "all red, all red."' Similar but false phenomena were obtained in succession with all the different forms of magnet and non-magnet; Marguerite was never once right, but throughout her acting was perfect; she was utterly unable at any time really to distinguish between a plain bar of iron, a demagnetised magnet, or a horse-shoe magnet carrying a full current and one from which the current was wholly cut off. In the latter part of this sitting Dr. Olivier entered the room and witnessed the second series of magnetic experiments as well as the experiments of externalisation. We took one of the dolls. We restored Marguerite to the perfectly hypnotised con-

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FIG. 19.—A 'Witness' Doll used in Control Experiments.



FIG. 20.—A 'Witness' Doll used in Control Experiments.

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dition, and when she was profoundly plunged in the state which is described as profound hypnosis, I placed a doll in her hand, which she held long enough to sensitise it. I then, taking the doll from her, rapidly disposed of it behind some books, and proceeded to operate on another doll which she had not touched and which I had just taken out of the box in which it came from the toy-shop. The preceding illustrations show the witness dolls with which I operated (figs. 19 and 20). Holding her hand I placed her in contact with Dr. Sajous, that he might also be, to use the jargon of the school, *en rapport* with her, and I continued to hold her hand. If now I touched the hair of the doll, which she was supposed not to see, she exclaimed, according to my notes, 'On touche les cheveux,' 'On les tire'—'They are touching my hair—they are pulling it'—and as she complained it hurt her, we had to leave off pulling the doll's hair. Taking the doll to a little distance, I pinched it; she showed every sign of pain, and cried out 'I don't like to be hurt—je ne veux pas qu'on me fasse de mal.' I tickled the cheek of the figure, she began to smile pleasantly (I am still quoting from the notes). I put away the witness dolls, and we then proceeded to the effects of medicine tubes applied to the skin. I took a tube which was supposed to contain alcohol, but which did contain cherry laurel water. She immediately began, to use the words of M. Sajous's note, to smile agreeably and then to

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laugh; she became gay: 'It makes me laugh,' she said, and then, 'I'm not tipsy, I want to sing,'—and so on through the whole performance of a not ungraceful *griserie* which we stopped at that stage, for I was loth to have the degrading performance of drunkenness carried to the extreme I had seen her go through at the Charité. I now applied a tube of alcohol, asking the assistant, however, to give me valerian, which no doubt this profoundly hypnotised subject perfectly well heard, for she immediately went through the whole cat performance I have already described as having been performed for my delectation by Mervel under the hands of Dr. Luys on the previous day. She spat, she scratched, she mewed, she leaped about on all fours, and she was as thoroughly cat-like as was Mervel on the previous and Jeanne on the subsequent day. It would be tedious to go through the whole of the notes of the numerous sittings which I had with these five subjects, but I may say at once that we had the cat performance six times, twice with Jeanne, twice with Vix, once with Clarice, and once with Mervel. In no case by any accident was valerian used, but either sugar, alcohol, diabetic sugar, cherry laurel water or distilled water; nevertheless the performance never failed when the subjects had reason to think it was expected of them.

Space will not permit me to reproduce the protocols of the various sittings in Paris, at which I tested the

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FIG. 21.—Clarice 'hypnotised' and attracted by a yellow glass ball.



FIG. 22.—Clarice 'hypnotised' and repelled by a blue glass ball.

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unreality of the hypnotic phenomena presented to me at the Charité. I retain for reference and for verification the original documents, signed by the various witnesses who were present, and who minutely watched all my counter-experiments. I had very numerous sittings, and carried out in the methods above described numerous and complete counter-tests, selecting always and only the patients who had been presented to me by Dr. Luys and Colonel de Rochas, and the subjects who had been operated on. Never by any accident did any one of these subjects show any power of discerning the effects of magnetised from non-magnetised iron; the pretensions of Dr. Luys that they could distinguish between magnetic photographs so-called and non-magnetic were in every case ascertained to be unfounded; the communication of sensations or thought by contact never took place in any case unless the subjects knew precisely what was the nature of the comedy to be played, and then they played it more or less well. The cat performance and the drunken scenes came off six times when the subject supposed that the tubes contained alcohol, but when they really contained divers substances, none of which were alcoholic; the scenes produced were acted in the same way under the influence of an empty tube, of a tube of alcohol, and of a tube of valerian. In order that there may be no doubt of the accuracy of

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these statements, I reproduce the letters of three eye-witnesses.

Dr. de Cyon, the well-known physiologist, writes, under date January 28, 1893:--

I can testify that the experiments at which I was present took place exactly as you have described them. The methods which you employed to demonstrate the trickery on the part of the subjects—notably the changing of the dolls and the substitution of the glass of water and of the magnet—were so simple that one finds a difficulty in believing that the physicians who have made themselves the apostles of this new superstition are acting in good faith. I have myself made numerous experiments on Dr. Luys' subjects and of those of many other physicians; and I have always succeeded with the greatest facility in unmasking their frauds, which really can only deceive those who wish to be deceived. Either dupes or accomplices—there is no other alternative term for the adepts of the doctrines now tending to discredit medicine and to throw it back many centuries. I am entirely in agreement with what you have said as to the morality of the subjects who lend themselves to these grotesque experiments. This branch of the subject much more concerns the *police des mœurs* than it does clinical medicine.

Dr. Louis Olivier, D.Sc., Editor of the 'Revue Générale des Sciences pures et appliqués,' writes, January 19, 1893:—

I am quite ready to relate what I saw at the sittings which took place in your room in the Hôtel Continental. There was no accord between the phenomena manifested

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by the hypnotised subjects and the production of the current of magnetisation, &c. You repeated the experiments of Dr. Luys and those of M. de Rochas, avoiding all suggestion, either involuntary or unconscious, which might vitiate the results. You took care to hide from the subjects the nature of the drugs tested, to which M. Luys attributes an action at a distance, and the moment of the closure or opening of the current of your electro-magnet. Under these conditions there was no longer any relation between the nature of the medicinal agent and the symptoms manifested; when the circuit was opened without their knowledge, the subjects said they experienced the varied sensations which they ordinarily attribute to the passage of the current. They were unable to distinguish the open from the closed state of the current. You repeated M. de Rochas' experiment of *envoûtement*, employing without the knowledge of the hypnotised woman two dolls, one of which remained carefully separated from her. She uttered shrieks when I pulled the hair of the doll which she had not touched, &c. These facts appear to me decisive in regard to the settlement of a question which I ought to say has been decided by the vast majority of the French scientific public in a sense absolutely opposed to the results proclaimed by MM. Luys and de Rochas. It is well that it should be known in England that the opinions of these two experimenters find no support in the French scientific world.

Dr. Lutaud, the Editor of the 'Journal de Médecine de Paris,' writes:—

I have read with most lively interest in the 'British Medical Journal' your notes on the New Mesmerism, and I hasten to state that you have reproduced very faithfully

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the opinion of all those who were present at the Paris experiments, and that your judgment, although severe, is absolutely just.

I pass now to the consideration of the underlying substratum of fact on which this huge structure of imposture and credulity is built. As I have already sufficiently indicated, the artificially induced sleep known by the old-fashioned Latin name somnambulism, or subsequently as mesmerism, and rebaptized in Greek, hypnotism, as though it were a new thing, is a subjective phenomenon of great interest, and of some complexity. It is, perhaps, not altogether unworthy of the attention which has been bestowed on it by French and German physicians. On the other hand—and here I only express a purely personal opinion, which must be taken for just what it is thought to be worth—I at least have come to the conclusion, after carefully watching the course of events at the Salpêtrière and Bicêtre, and studying the enormously voluminous literature which owes its origin to the school of Nancy, to the Paris school, and to Belgian and Austrian writers, that the importance of these studies has been vastly exaggerated. I am disposed to think that it is more the picturesque eccentricity of the phenomena and the striking *mise en scène* to which human automatism lends itself and which has attracted so much attention, than the real medical or physiological importance of the subject. Hypnotism, even as practised at the

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Salpêtrière, has, so far as I can see, taught us little, if anything, of the functions of the brain or of the organs of the mind that we did not know before. I find little in the writings of Charcot, of Bernheim, or of Janet but an excessively detailed development of facts and principles, already soundly, clearly and usefully laid down by Carpenter and Braid. With a lucidity, clinical power and picturesqueness beyond praise, M. Charcot has described, depicted and exemplified a most striking series of hysterical phenomena. He has shown that nearly, if not quite all hypnotics, are neurotic persons to whom the general classification of hysterics or neurasthenics may fairly be applied.

Of the intrinsic correctness of his classification of the stages of hysteria in its larger forms, I am sceptical; nor do I think it a permanent nosological classification which will endure in medicine. These various stages, so regularly produced in classical order, appear to be performances originating partly in the auto-suggestion of an originally morbid patient, and then perpetuated by imitation, suggestion, ward training, and by habit in some. I am so persuaded that they are artificial, that I even venture to predict they will cease to exist when the succession, so to speak, of M. Charcot's trained patients is broken, and when the habit of performance in the wards and theatre of the Salpêtrière is given up, as I am inclined to think it will be before long. Such patients and such stages of the greater

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hysteria are not found elsewhere, unless the patients are led up to them by training or by imitative instincts; they are non-natural, they have no real existence in medicine and will take no enduring place, so far as one can judge, in the history of medicine. It was natural enough that one extravagance should lead to another, and the follies of La Charité can but be regarded as the offspring—illegitimate, perhaps, and repudiated—of certain extravagances into which even men so able, so lucid and so thoughtful as the School of the Salpêtrière have allowed themselves to be led. Already there are, happily, signs of a reaction within the School of the Salpêtrière itself. I believe that journalists and the public are now excluded from these performances; the *grande hystérie*, with all its stages, is much more rarely seen, and there is reason to hope that it will die out now that the first excitement of this scenic display has weakened and the performance is felt to be monotonous and wearisome. Thought transference is not now spoken of at La Salpêtrière and the proceedings at La Charité are there ignored with an intentionally contemptuous silence.

What remains, then, of practical value and of medical utility as the results of these lengthened studies? What are their mischiefs? Are these adequately balanced against their benefits? First as to their mischiefs. I will again let Dr. Luys speak, for although he is the most enthusiastic apostle of the presumed

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benefits, he is perfectly outspoken as to the resultant injuries.

'From the social point of view these new states of instantaneous loss of consciousness into which hypnotic or merely fascinated subjects may be made to pass deserve to be considered with lively interest. As I shall have to explain to you later, the individual in these novel conditions no longer belongs to himself; he is surrendered, an inert being, to the enterprise of those who surround him. At one moment in the passive stage in this condition of lethargy or of catalepsy, he is absolutely defenceless, and exposed to any criminal attempt on the part of those who surround him. He can be poisoned and mutilated. Where a woman is concerned she may be violated and even infected with syphilis, of which I have recently observed a painful example in my practice. She may become a mother without any trace existing of a criminal assault, and without the patient having the smallest recollection of what has passed after she has awakened. Sometimes, in the active condition, the state of lucid somnambulism, and even in the condition of simple fascination, the subject may be exposed to the influence of suggestions of the most varied kind on the part of the person directing his actions. He may be induced to become a homicide, an incendiary, or suicide, and all these impulses deposited in his brain during sleep become forces silently stored up, which will burst forth at a

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given moment with the precision, accuracy of performance and automatic impetuosity of acts performed by the really insane.

'Gentlemen, bear this well in mind; all these acts, all these phenomena unconsciously accomplished, are no mere vague apprehensions and vain suppositions; they are real facts which you may meet with every day of ordinary life. They are prone to develop, and to appear around you and before you in the most inexplicable manner.'[1]

In many places Dr. Luys cautions his pupils against the dangers that may arise if hypnotic patients fall into the hands of unscrupulous persons. The hypnotised patient he describes as malleable, flexible and obedient in a completely passive fashion. 'You can,' he says, page 193, *et seq.*, 'not only oblige this defenceless being incapable of resistance to make you a manual gift, but to sign a promise, a bill of exchange, to write a holograph will in your favour, and to hand it you without his ever knowing what it contains or even that it exists. He will accomplish the most minute legal formalities calmly and serenely, so that the most experienced officers of the law would be deceived. Here is Esther. She will write and sign before you a deed of gift in my favour good for a thousand francs. Her

[1] *Leçons cliniques sur les principaux Phénomènes de l'Hypnotisme dans leurs Rapports avec la Pathologie Mentale.* Par J. Luys. Paris: Georges Carre, éditeur, 58 Rue St. André-des-Arts, 1890.

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FIG. 23.—Esther in the normal state.



FIG. 24.—Esther suddenly and profoundly alarmed by the luminous radiation of a bottle cork.

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writing is as good in her hypnotised as in her wakeful state, perhaps firmer and less hesitating. You could make her swallow, as you see, a bread pill, thinking it to be a peppermint lozenge; if it were a capsule containing morphine, and she was to be awakened as the victim of poisoning, she would know nothing of the origin of her symptoms. If I tell Marie to throw herself out of the window, she rushes to the window like an arrow from a bow, pushing aside violently those who try to stop her. If she were found dead in the street, who could say whether it were suicide or homicide?' . . . 'It is not necessary that an individual should present the classic stages of the greater hypnotism in order that he should be made to receive and to execute a suggestion; the slightest and most superficial condition suffices—simple fascination. The hypnotic under the influence of suggestion is capable of becoming a dangerous lunatic of a new kind.' M. Luys also says, not without a certain inconsistency, 'no one is obliged to allow himself to be hypnotised, and the fact of having delivered over to another even for a single instant his moral liberty, suffices, in my opinion, to create a certain measure of responsibility.' Dr. Luys is careful to recommend to his pupils always to give the suggestion to the persons whom they hypnotise not to allow themselves to be hypnotised by anyone else, in order to avoid such subjects becoming the subject of exploitation by interested persons.

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This recommendation, highly significant as it is cannot be considered to be of any great value. A subject accustomed to be thrown into the hypnotic state cannot protect himself, and is at the mercy of any scoundrel or impostor who chooses to adopt the various methods of impressing the imagination which are the stock-in-trade of all hypnotisers. It is a mere idle fancy, easily disproved, that the hypnotiser has in himself any power special to him. All of M. Luys's subjects who passed under my hands, and indeed every subject who for many years has come under my notice, could be hypnotised, as I have already stated, by me or by anybody else whom they thought capable of hypnotising them; or by any object whatever—a candle, a bell, a spoon, a coin, or a tuning fork—to which they were taught to impute hypnotising power. In the substituted jargon of other schools this is called mesmeric power or magnetic power; all empty phrases for concealing the fact that the condition is one of a subjective character, capable of being induced by many kinds of external stimulus. M. Luys's porter, his ward servant, myself, and my friends proved to be as capable of hypnotising as Dr. Luys is himself. The dangers which he so vividly described are not therefore to be conjured by the simple expedient on which he relies. I may add that the newspapers in France abound with sad stories, and others are current in the hospitals of most distressing and grossly immoral results of this abominable

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practice of training responsible beings to resign their responsibility, and to become the passive agents of the will of others.

In connection with this part of the subject, and to throw a light on the active dangers associated with the practices of some of M. Luys's trained subjects, I think it right here to put on record the literal transcript of a letter I have received since reaching England from one of them (Jeanne), in which she describes the activities of herself and another subject of Dr. Luys's (Clarice), whom he introduced to me at his clinic, who is figured and described in his lectures, and to whom I have already referred:

MONSIEUR LE DOCTEUR,—Ayant eu l'honneur Samedie dernier de servir de Sujet à une Seance d'hypnotism chez vous, Monsieur le Docteur, j'espère que vous voudrez bien m'excuser, Monsieur le Docteur, la liberte que je prends de vous faire parvenir une petite nomenclature—des expériences et des phénomènes—que Mr. le Dr. Luys obtien, depuis bien tot 7 ans, sur moi.

1. On obtien sur moi tres facilement—
   Les trois états classiques,
   Léthargie, Catalepsie, Somnambulisme.
   En Léthargie.
   Anestesie compléte.
   Tous les différents effects et contracture—au contacte—
   des differents Metaux.
   Les contractures Neuro-Musculaires.
   Le jeu du Diaphragm.
   En Catalepsie.

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Prise du regard—le point fixe—autométisme—les attitudes—Effects des Couleurs.
Suggestions par gestes.
Effects des Aimants.
Cessation du battement du poux.
Raideur cadaverique.
Somnambulisme.
Tous les phénomènes de l'hyperestesie de la peau.
Les attractions.
Effects de medicaments à distance.
Suggestion—instantanée et à écheance.
Changement de personalité !
Mneumonie.
Vision.
Vue *absolue* à travers tous les corps oppaques sans *aucun secour des veux.*
Double vue—transmission des pensées.

Voila Mr. le Docteur les phénomènes qu'on obtien très facilement sur moi—*sans jamais les râter.* Mr. Le Docteur Luys n'hésitera pas à le confirmer—d'ailleurs j'offre de le prouver—quand on voudra.

Je travail en ce moment comme Sujet (passif) à la Charité avec Mr. le Dr. Louys—et comme Sujet *active* avec mes sujets—chez moi tous les jours de 2 heures a 6 heures—et dans tous les Salons de la haute Aristocratie Parisienne en soirée hypnotique ou Spirite.

Anciennements Mdlle. Clarice que Samedi Mr. le Docteur j'avais aperçue dans votre Salon—á été employée par moi—pendant 8 mois *comme mon sujet.* J'ai été force de la conjedier pour un fait—assez serieux. Cette petite dont les aptitudes sont absolument aussi nules que le Cabotinage est grande, profité des visites chez moi de quelques toutes

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jeunes dames du plus grand monde qui dans l'après midi venaient me consulter et naturellement en cachette de moi, pour grossire ces gages de sujet, cette petite fille, sans conscience vendai de la morphine au morphinomane et de l'opiome aux opiomanes, une de mes cliente, Mme. la Vicomtesse de . . . . devenue absolument opiomane par l'opiom procurai en secret par Clarice a manque payer cela de sa vie. Par un hasard ayant decouvert le verite j'ai mise, Clarice immediatement à la porte. Voila pourquoi j'ai été desagreablement impressionée voyant cette triste personne singer avec aplond dans le salon de Mr. le Docteur tous ce qu'elle m'avais vu faire étant chez moi.

This letter will indicate some of the characteristics of the favoured patients and trained subjects of Dr. Luys, and a full investigation of the story of which a corner of the veil is thus lifted, might be very useful in the interests of social morality.

Another ramification and extension of the proceedings at the Charité was disclosed to me by the presence at one of the sittings of a Madame W., who was apparently much interested in the proceedings, and presented me with her card and invited further acquaintance. I called with M. Cremière and found her installed at a library and reading room. It was the headquarters not only of profound hypnosis and the great hypnotism, but also of the new magic. Here I was introduced to the literature of occult science, and a 'methodical bibliography' of the same was presented to me, being a critical study of the principal modern

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works on the subject by a group of occultists under the direction of Dr. Papus, President of the independent group of esoteric studies and director of 'L'Initiation.' The book is interesting in itself, and all the more interesting because Madame W. informed me that Papus, or Dr. Papus, as he is described, is in fact M. Encausse, whom I find described on the title-page of Dr. Luys's journal as 'Chef de Laboratoire de la Charité.' To those who wish to follow out the curious relationships into which the Chef de Laboratoire of Dr. Luys has entered, this little *bibliographie* will be singularly interesting. It contains in itself a good deal of picturesque and surprising information which makes it quite worth the reading of anyone who is curious about the ramifications of so-called occultism, and the vagaries into which the apostles of mesmerism and hypnotism often allow themselves to wander. The absolute key to occult science is, it appears, to be found in the book entitled 'Le Tarot des Bohémiens, le plus Ancien Livre du Monde à l'Usage Exclusive des Initiés,' par Papus. Papus (Dr. Luys's Chef de Clinique) is also the author of 'La Science des Mages, et ses Applications Théoriques et Pratiques.' This is a little pamphlet, price 50 centimes. In the press is announced to appear immediately a series of books of which the first is entitled 'Erotique, comment on devient Fée.' The author not stated.

Under another rubric are the works on hypnotism.

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Hypnotism, it is explained, studies the phenomena produced in certain persons by physical or psychical acts capable of fatiguing and surprising one of the senses. Hypnotisers differ from magnetisers in that they deny the existence of any fluid. The 'Leçons Cliniques' of Dr. Luys are warmly recommended, as are those of Colonel de Rochas, who is described as one of the rare French *savans* who occupy themselves in a scientific manner with the forces, as yet little known, of Nature and of man. Many new and very curious discoveries on the relations of hypnotism and of the ancient magnetism are brought to light in this work. The journal called 'L'Initiation,' of which M. Papus is the editor, deals with hypnotism, psychical force, theosophy, kabala, gnostics, freemasonry and occult sciences.[1] To read through the whole of this catalogue is like a nightmare. It may be recommended to the Psychical Society. They will learn that, under the name of 'telepathy' and of 'telepathic hallucination,' certain French *savans* have approached the study of the mysterious phenomena of the communication of thought or of the vision of phantoms, and that 'this study is part of occult science and of spiritism.' Of

[1] This gentleman has since honoured me with his abuse in the *Journal de Psychcatrie* (edited by Dr. Luys). The fact would not be worth referring to except that M. Papus repeats the misstatement that I experimented on persons whom Dr. Luys had discarded—the truth being that two of them were actual patients, and all were introduced to me by Dr. Luys as his subjects of experiment.

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course I brought this and some of the literature away with me; but as I understood that Madame W., the presiding spirit of this Librairie du Merveilleux, could also undertake to provide subjects for experiment, I requested her assistance in that direction. Most of the available subjects, however, it appeared I already had in hand, but she recommended us to apply to a Madame S., who, she said, was versed in the mysteries of *l'envoûtement*.

Here we came upon another and lower associated stratum. Madame S., who lived in the outer circle of Paris, occupied a little box of an apartment attached to some baths—bath-keeping being her principal employment and sorcery a by-occupation. The *mise en scène* was novel. She was a striking-looking person with abundant and dishevelled grey locks. The room was pervaded by a number of black cats, of whom there were in all, I was told, nine who were her familiars. A toy demon held a prominent place on the wall, and a placard announced the price at which the magic cards were read and fortunes told. The tariff was moderate; the *grand jeu* was, I think, 3 francs, the *petit jeu* 2 francs. Madame S. told us that it was not her business to practice *l'envoûtement*, but to remove its evil effects. In this she said she was very successful. She recounted to us several instances of great ladies and of actresses whom she had freed from its evil effects, as Madame W. had already told us. 'The process,' she explained, 'is

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very simple. Colonel de Rochas came to me to ask me to explain my power; but he was not at all satisfied. I do it without magnetism, and that does not please him. I do it by the power of my will; hatred, you know, is a power, and I oppose it. You hate anyone; you get a spell thrown over them; at a given time in the day or at a given place they suffer anguish, suffocation—they waste away. I remove the spell, and in three or four sittings I cure them. Send me anyone who has suffered from *l'envoûtement* of Colonel de Rochas or anyone else and I can cure it.' This lady's methods were crude and suitable to her rank in life. I do not pursue the matter further; but I refer to it as an instance and an evidence of the abysses of folly and imposture to which the persons whom I met at La Charité under the auspices of Dr. Luys directed my footsteps.

The Position of Hypnotism in Therapeutics.

The final question of the clinical physician and the medical practitioner is the practical demand for the definition of the position of hypnotism in its relation to therapeutics. I may, I think, take it as proved beyond all reasonable doubt that the hypnotic condition is a real and admitted clinical fact. Setting aside all the impostures, follies, and errors which have gathered around it, brushing away the fantastic halo of clairvoyance, telepathic and visional communication, trans-

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ference of thought or sensation across space, or by contact and externalisation of sensation, as pure fallacies, fancies, or frauds, we have still the solid basis of the subjective condition of artificially induced sleep and heightened suggestibility. What use then, if any, can be made of the power of suggestion under these circumstances as a curative agent? In reply to this question I will adduce chiefly the evidence of Dr. Luys, Dr. Charcot, Dr. Babinski, and M. Ballet, analysing the results of long years of clinical experiment on a vast number of subjects in Paris and in Nancy. M. Babinski discusses the subject very carefully in a lecture which he gave at the Salpêtrière on June 23, 1891.[1] He opens his lecture very frankly with the following statement:—'At the Salpêtrière, without at all objecting to hypnotism as a weapon of the therapeutic arsenal, it is considered that its indications are limited, and that this mode of cure can hardly be applied with success except in hysteria.' 'In any case it may,' he considers, 'be affirmed (p 23) that the greater part of the symptoms which have been cured by this method arise from and belong to that neurosis.' 'Hypnotism,' he further says, 'may, it must be admitted, serve in the treatment of hysterical manifestations, but it must also

[1] *Hypnotisme et Hystérie: du Rôle de l'Hypnotisme en Thérapeutique.* Leçon faite à la Salpêtrière le 23 Juin, 1891, par J. Babinski, médecin des hôpitaux, ancien chef de clinique des maladies nerveuses à la Faculté. Paris: G. Masson, 1891.

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be acknowledged that even in affections of this class, hypnotic practice does not give brilliant results.'

From the therapeutic point of view he groups hysterics into two distinct classes. To the first belong the great number of hysterical persons who are not capable of being hypnotised, however much trouble is taken with them. Some of these patients are no doubt subject to the very old-fashioned influence of suggestion in the waking state. Such people have always been susceptible to cure by bread pills and distilled water and by the 'rapid' influence of electrotherapy, hydrotherapy, &c. In the second class are the hysterics, persons who can be hypnotised, and these present numerous varieties. Some of them, especially those subject to hysterical neuralgia and cutaneous hyperæsthesia, are very rebellious to suggestion, and in others only a partial and very inadequate result can be obtained. In some cases of hysterical contraction ot the limbs suggestion gives relief, but it has to be renewed from day to day, sometimes five or six times a day, and the patient is very liable to relapse. In a very few cases a gradual and definite amelioration is obtained, as in one case of hysterical muscular contraction and coxalgia which Dr. Babinski is able to quote. 'Finally,' he asks himself after many years of study and experience as *chef de clinique des maladies nerveuses* and as an hospital physician, who has constantly observed the cases at the Salpêtrière,

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'does the field of action of hypnotism pass beyond the domain of hysteria?' His final conclusion, which he italicises at the close of his address, is that it is justifiable to say, and he is authorised to conclude that outside of hysteria there does not exist a single affection capable of being notably modified by hypnotism, or at least that the contrary is not proved, for the cases published with that object are far from being demonstrative. Of course the opposite thesis is maintained by M. Bernheim, but after the close analysis to which Dr. Babinski subjects the cases published by Dr. Bernheim in his two books on psychotherapy and suggestion, there remains very little which can be accepted as substantial.

In addition to bodily diseases some alienist physicians have alleged that mental maladies may be cured by hypnotism. Here again we may take the results of competent French alienists who have given a practical trial to this method. M. Magnan authorises the statement that experiments made on the treatment of insanity by hypnotism at the Bureau de l'Admission during three years have given no appreciable result, while M. Bernheim himself recognises that the domain of mental alienation is the most rebellious to suggestion. Dr. Forel, of Zürich, is not less positive in his conclusions. He says[1]:—'Insane ideas have never been modified in

[1] *Premier Congrès International de l'Hypnotisme*, p. 155. Paris: Octave Doin, Editeur, 1890.

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any patient. Even those whom I succeeded in hypnotising, in rendering anæsthesic and amnesic, whom I made realise post-hypnotic suggestions, refused to accept any suggestion opposed to their insane ideas. I never succeeded in influencing the course of true melancholia (I do not speak of hysteric melancholia) by suggestion; at most I was able sometimes to produce sleep, and in one case to hasten convalescence.' M. Briand, Chief Physician of the Asile of Villejuif, said on the same occasion:—'I have many times attempted to send to sleep the insane and delirious who presented no hysteric taint, but I was never fortunate enough to obtain any result.' If this is so in France, the results are likely to be at least as negative in Great Britain, where the population is undoubtedly much less susceptible to suggestion.

Hypnotic Suggestion before the Law.

It has been alleged that suggestion and somnambulism may have considerable value in unmasking certain crimes to which the tribunals of justice have not hitherto been able to attribute their true character. This thesis has been especially maintained by M. Liégeois [1] and by M. A. Voisin,[2] but with all his good-

[1] *De la Suggestion et du Somnambulisme dans leurs Rapports avec la Jurisprudence et la Médecine Légale.* Paris, 1889. *Comptes Rendus du Congrès de l'Hypnotisme,* 1889.

[2] *Revue de l'Hypnotisme* de Juin, 1891.

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will and with all his research M. Liégeois has not been able to bring forward one single example in which suggestion has been shown to play any part in the production of a crime brought before a court of law. I refer those who are interested to the excellent analysis of the work of M. Liégeois by Gilbert Ballet.[1]

There is only one case on record in which a distinct declaration has been made by a medical man of evidence that crime has been committed by a hypnotised person under the influence of suggestion. It is the case which M. Voisin records in the 'Revue de l'Hypnotisme' here cited, in which, as he reports, a woman accomplished numerous thefts at a large shop when in a state of automatism and under suggestion which had been imposed upon her when hypnotised. M. Voisin states that he demonstrated the complete irresponsibility of this woman, who was set at liberty, while the three actual authors of the crime were punished. Dr. Voisin referred also to this case, in my presence, at the Bournemouth meeting of the British Medical Association. If it be fully verified, it may claim to rank as a case in which the theory of post-hypnotic suggestion has been of use for justice. It would be the only case thus far noted. But where are the legal documents of this case, the magistrates' report, and the depositions?

[1] *Les Suggestions Hypnotiques au Point de Vue Médico-legale.* Par Gilbert Ballet, Professor Agrégé à la Faculté de Médecine, Médecin de l'Hôpital St.-Antoine. Paris: G. Masson.

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Until we have these before us we can decide nothing as to its authority. They have been pressingly asked for, but I am not aware that they have been produced. That hypnotism may and does lead to crime in respect to the abuse by hypnotic operators of the person of the hypnotised subject is beyond question, and possibly the cases may be more numerous than published records can prove; but to the question which we are now putting, of the influence of suggestion in producing crime as the automatic act of the subject, or as the result of deferred suggestion, there is no affirmative answer forthcoming upon evidence adduced. Still less is there any proof that the doctrine of hypnotic suggestion has in any case been of value for the purposes of justice.

Finally, I pass to the domain of surgery and obstetrics. Here we are on more positive ground, and I shall quote the words of Dr. Luys [1]—always disposed to give the largest interpretation to the evidence of the usefulness of hypnotism—as to its relative inutility in these positive departments of medical and surgical art.

Surgical Application.

'At the first appearance of hypnotism, when Braid had shown that hypnotised subjects are insensitive to

[1] *Applications Thérapeutiques de l'Hypnotisme.* Par le Dr. J. Luys. Paris: Imprimerie F. Leve, 17 Rue Casette. 1889.

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external stimuli, surgeons conceived the idea of using this method for the performance of certain operations; in fact, a certain number among them had the opportunity of testing it with a certain amount of advantage; but since the wonderful discovery of chloroform, these attempts so far as concerns surgical anæsthesia have been justly abandoned.

'At the present time the application of hypnotism to surgical therapeutics is of absolutely no account, since it concerns only the limited number of persons comprised in the class of hypnotisable subjects. It must, however, be said that if this class of subjects should, by the employment of new methods, become more numerous, it is possible that in certain cases one might practise fascination, and thus obtain an artificial anæsthesia, the duration of which might be prolonged without any ill effects. In the present state of things, when a small operation is to be done upon any of our hypnotic subjects, an abscess is to be opened, a foreign body to be extracted or one or more teeth to be drawn, I do not hesitate to hypnotise the subject and to hand him over to the surgeon. It happens to me frequently enough to have a certain number of subjects with teeth to be drawn. I place them in the condition of lucid somnambulism, I address myself to the dentists of the Charité, who examine the mouth at leisure, and extract the diseased teeth; whilst the subject, insensible through-

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out, on waking has no recollection of the operation he has undergone, and is quite astonished to find his extracted teeth in his hand.'

Application of Hypnotism in the Domain of Obstetrics.

Dr. Luys further writes:—'The practice of hypnotism as applied to the art of midwifery has not yet yielded very satisfactory results. You may read on this subject a very interesting work written by Dr. Auvard, who sums up in a very conscientious way all that is known about this question. I have only had one single fact of this kind to record, and it does not seem of a nature to encourage hypnotic experiments in this special province. Last year I had in my wards a young hypnotic woman whom I had kept till the last day of her pregnancy in order to give her the benefit of lethargic anæsthesia at the time of her confinement. When the pains came on she was hypnotised and placed in a condition of lethargy; but this procedure proved perfectly useless, for the intensity of the labour pains was such that they brought about the natural awakening of the patient, and we were obliged to have recourse to chloroform to finish the delivery.'

To sum up, I may venture to quote my own conclusions as stated recently in the 'Nineteenth Century': To me the so-called cures by hypnotism seem to rank in precisely the same class as those of the faith-curer.

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The hypnotic *endormeur* is very well able to explain the miracles of faith-cure by the light of his own experience. They result, as he explains accurately, from the reaction of mind on body, the effects of imagination, of self-suggestion, or of suggestion from without. Those who benefit by them are especially the fervent and the enthusiastic, the vividly imaginative, the mentally dependent, and, above all, the hysterical—male or female. But clearly the faith-curer may retort upon the hypnotiser that they are brothers in their therapeutic results, if not in their faith and philosophy. The one can work about the same percentage of cures as the other, and no more; and the intervening apparatus, whether of magnets, mirrors or grottos, only serve to affect the imagination, and to supply the necessary 'external stimulus.'

To this category also belong the long series of thousands of asserted cures of people who now wear what they are pleased to call magnetic belts, or who used to wear magnetic rings and believed they were cured by the Perkins tractors of wood or iron—people who are the prey of quacks of all ages and in all countries.

One essential fact is, it appears to me, that no new faculty has ever yet been developed in any of these hypnotics. The frauds of clairvoyance, spirit perceptions, gifts of language, slate-writing, spirit-writing, far-sight, 'communication across space,' 'transfer of

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mental impressions,' of the development of any new sense or the ghost of a new sense, remain, now as ever, for the most part demonstrable frauds, or perhaps, in a few cases, self-deceptions. At the Salpêtrière, at Nancy and wherever the facts have been impartially and critically examined, this has been the result. A similar outcome is obtained by my recent tests of the subjects of the Charité and the École Polytechnique. It will, I suppose, be too much to expect that we shall hear no more of the 'New Mesmerism,' but it will be easy for anyone to reduce it to its true dimensions by similar experiments.

Finally; as to the practical question, which has perhaps a greater interest for the sociologist and the physician than any which have suggested themselves up to this point. Since the hypnotist faith-curer of the hospital ward and the priestly faith-curer of the grotto are in truth utilising the same human elements and employing cognate resources, although masked by a different outward garb, we may ask ourselves which of them can claim the greater successes and which does the least harm?

So far as I can see, the balance is in favour of the faith-curer of the chapel and the grotto. The results at least are proportionately as numerous, and they are more rapid. Numerically there are, I incline to believe, more faith-cures at Lourdes than there are 'suggestion-cures', in the Salpêtrière or the Charité. So far as

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hypnotism is good for anything as a curative agent, its sphere is, as we have seen, limited by Charcot, Féré, Babinski and all the most trustworthy medical observers in Paris, to the relief of functional disorders and symptoms in hysterical patients. The Nancy school put their pretensions higher; but anyone who will analyse for himself the Nancy reputed cases of cure, or who will study Babinski's able analysis of them, will easily satisfy himself that such claims are not valid. As to the use of 'suggestion' as an anæsthetic substitute of chloroform for operation purposes, that 'suggestion' dates back beyond the times of Esdaile and of Elliotson. It has been given up and fallen into disuse because of its unreliability and limited application. It is now seriously proposed to use hypnotism for 'tooth-drawing,' for the treatment of drunkards, and of school children. The proposition is self-condemned. To enable a dentist to draw a tooth painlessly, the average man or woman is, by a series of sittings, to be reduced to the state of a trained automaton; which happily is only possible in the case of a very small proportion. The criminal courts have seen enough of hypnotic dentists. As to the 'suggestion' cure of drunkards or the 'suggestion' treatment of backward or naughty children, systematic and intelligent suggestion is what every clergyman, every doctor, and every schoolmaster tries to carry out in such cases and often effects successfully and in a better form than the degrading

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one of hypnotism. Moreover, for drunkenness it is, so far as my inquiries go, a disappointing failure.

If a striking effect is to be produced by an apparatus calculated to affect the imagination powerfully, the faith-curer of the grotto has this advantage over the *endormeur* of the platform or the hospital. He does not intrude his own personality and train his patient to subject his mental *ego* to that of his 'operator.' The 'mesmeriser' seeks to dominate his subject; he weakens the will power, which it is desirable to strengthen, and aims at becoming the master of a slave. I do not need further to emphasise the dangers of this practice.

The faith-curer of the grotto strengthens the weaker individuality. He plays upon the spring of self-suggestion. The patient is told to believe that he will be cured, to wish it fervently and he shall be cured. So far as he is cured, he returns to his home perhaps a better and a stronger man, and his cure is quite as real and likely to be quite as lasting as if he had become the puppet of a hypnotiser. The experiments of the Salpêtrière have served to enable us to analyse more clearly the nature of faith cures generally, and they have thrown a ray of light on a series of phenomena of human automatism never before studied so clearly or philosophically, but they have added practically little, if anything, to our curative resources. It is hardly to be set down to their discredit that they have incidentally favoured the reign of the platform hypno-

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tiser or the vagaries of the subjects at La Charité; that result is their misfortune rather than their fault, though it is a grave misfortune. But the intervention of authority might now, and I hope will, cut short the absurdities of these practices, and put an end to some social mischiefs which have fastened on to them and hang on to their skirts. Thus much as to the medical question. To the student of 'psychological phenomena' it is of great interest to note how successive functions may be separately abolished as the brain is partially set to sleep, and in what exaggerated forms the remaining activities may be brought into action when restraining self-consciousness is stilled. The vulgar, too, may find an ignoble amusement in the antics of these drinkers of petroleum and vinegar, of these seers of visions and in the semi-idiotic postures and proceedings of the hypnotised mannikin, just as they do in a *fantocchini* show. But against such philosophic satisfactions and vulgar amusements must be set the avowed as well as the unconfessed mischiefs wrought by hypnotic experiments, and who can doubt that these outbalance any apparent good result?

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GROPINGS AFTER THE SUPERNATURAL.

THERE have always been persons who claimed the gift or distinction of conversing with spirits. Science, with its rigorous analysis and its exact methods of proof, has made an end of many imaginary beings. Nymphs, fauns, river gods, fairies, brownies, kelpies, and spirits of every kind have fallen out of belief; but communications from the unseen world, it is alleged, still reach our world, adapting themselves to the new methods of experimental philosophy. Ghosts now write letters, and are beginning to show a disposition to suffer themselves to be photographed. We should be loth to deride such gropings after the supernatural. Human curiosity cannot be repelled from trying to peer through the curtain which covers the world beyond the grave. Those who have thrown off a belief in the traditional views of religion are sometimes moved to seek a confirmation of the spirit world through experiments pursued in a quasi-scientific manner. We do not say that all those who take to spiritualism are

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sceptics, but the tendency generally indicates a decaying faith in revealed religion.

Paris—long the capital of religious scepticism—seems to be at present the head-quarters of the clairvoyants, spiritualists, and other mystics, who endeavour to establish a familiar intercourse between the living and the dead. A well-known journalist (Mr. Stead) has recently confided to the public some visitations which he has had from the spirits. 'Julia,' the shade of a defunct American journalist (whom we should much desire to interview, and who might with advantage be subjected to 'test,' as were the subjects of La Charité), has imparted to him not only information about business matters, of which the dead might be expected to take little care, but also details about the spiritual condition after death, and Mr. Stead has communicated them to some English bishops, who are presumably experts in such matters. These dignitaries, we are told, consider 'Julia's' revelations to be worthy of attention. Apparently none of these interesting confidences have been as yet printed for the edification of the profane vulgar.

Mr. Stead has been visited by what may be called spiritual influxes. His hand is moved involuntarily to write things new even to himself. He has a friend whom he has got to write involuntarily a confession of some events which a man of ordinary reticence would have left untold. Mr. Stead is disposed to think

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that a murderer might, under the promptings of his better self, reveal the crimes which he had committed; but then some criminals, he naïvely observes, have no better self. We agree with Mr. Maskelyne that there is no use laying down a test for the spiritualists any more than for the clairvoyants. To begin with they always object to it, and when the tests are rigidly enforced by men of a scientic cast of mind, the wonder-workers always fail. How often, for example, have the clairvoyants or ghost-seers been asked to read some document or tell the number of a bank note carefully locked up, and always in vain? Sometimes they offer the excuse that spirits cannot, or will not, tell everything. Very likely, it is said, the shades do not care whether physiologists believe in them or not, and will not condescend to answer impertinent questions, or to suffer cross-examinations of a detective strain. You must take what they tell you in the way they tell it to you. The spiritualists have never told us anything worth knowing, and, what is worse, they are in hopeless disagreement with one another. Will common sense not teach people that, if there really were a channel of intercourse between the living and the dead, many a message would come from friends gone before, of serious and weighty import instead of trifles and ineptitudes which have a suspicious resemblance to the echoes of the thoughts of the living?

Swedenborg, the prince of visionaries, whose ac-

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counts of the unseen world are circumstantial enough, manages to exclude rivals, for he declares that the spirits of the dead cannot converse with the living, and he himself was, by the special ordination of God, made an exception to this rule. Occasionally the Swedish mystic allowed spirits to see through his eyes, and he tells us that the spirits of fraudulent tradespeople moved his hand to make him steal articles in the shops. Scientific psychologists treat these as subjective feelings, dependent upon deranged conditions of the nervous system, in most cases accompanied by other symptoms of disease. Mr. Stead can only explain his own abnormal sensations, mental impulses, and involuntary muscular actions as the result of the influx of spirits. Accepting this as 'a working hypothesis,' he assures us he is acting in an honest and, he hopes, a scientific manner. But there are many things, both in disease and health, which are not yet fully explicable by any hypothesis. An impatient desire to have a hypothesis has led science into countless errors. A literary man, whose mind has had no training in physiology, is liable to go astray in such inquiries. We venture to advise Mr. Stead to subject all his symptoms to the analysis of a skilful physician, instead of hurriedly reducing vague nervous sensations into copy for periodical publications.

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APPENDIX

In view of the re-assertion by M. Encausse in the 'Revue de Psychiatrie' of the absolutely incorrect statement that the persons on whom I experimented were any other than the actual subjects introduced to me by Dr. Luys himself at the Charité, and the pretension that they were persons whom Dr. Luys had discarded, I think it well to reprint the letters from Dr. Luys and myself which were published in the 'Times,' and in which Dr. Luys, after having brought forward that unfounded statement, was unable to support it. Two of the subjects on whom I experimented were actual patients in the wards; they were all five the subjects, and the only subjects, on whom Dr. Luys gave his demonstrations to myself and to a number of journalists and medical men in December and January, and three of them were subjects on whom he had continuously lectured for many years, and whose various ante-performances will be found figured and described at great length in his papers and Clinical Lectures to which I have referred in the text. Clarice and Jeanne especially are reproduced in a great number of photographs. Jeanne, whose letter I print on p. 147, is perhaps the most hardened and elaborate impostor of the series, and she is the

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central figure in the photographs on pp. 99 and 101, and which Dr. Luys gave me with his own hands, having brought them, as he said, for me, to illustrate the striking effects of attraction and repulsion by the two ends of the magnetic bars; a phenomenon which I proved, and invited him to prove, by very simple means, to be pure fraud. Having declined to apply any of the very simple tests suggested to him by me in the wards, by which he could easily have ascertained for himself the thorough imposture of his subjects, it ill becomes Dr. Luys to complain that I was incompetent, or that in applying simple and accurate scientific tests I was doing anything more than he ought to have done long since out of respect to his own assumed position of a man of science, and to the honour of the science of medicine and the reputation of the great hospital, which the continuance of these fictitious performances seriously discredits.

THE NEW MESMERISM.

TO THE EDITOR OF THE 'TIMES.'

Sir,—Having been invited by the committee of the Institut de France to attend the Pasteur Jubilee, I found myself in Paris at the moment when the first communication of your correspondent on 'The New Mesmerism' was published. In view of the importance attaching to statements published so prominently and with so much detail in the columns of 'The Times,' I took the opportunity of communicating through a medical friend with Dr. Luys, and was invited by him to witness the demonstrations which your correspondent so picturesquely describes, and

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which carried such firm conviction to his mind. The whole phenomena which he witnessed were actually reproduced before me, and many more, still more startling and dramatic, of which he makes no mention. Being deeply interested in performances which were, *primâ facie*, so astounding, and which, if verified, would carry us back to some of the old practices and conclusions of the mystics and sorcerers of the middle ages, I thought it worth while to spend a fortnight in the closest investigation of the facts, and in attempting to arrive at correct conclusions as to their causation.

With this object I made repeated visits to La Charité Hospital, and I visited the École Polytechnique by the invitation of Colonel Rochas d'Aiglun, the head of the school, who reproduced before me there, as he had already done in the presence of Dr. Luys at La Charité Hospital, the performances described as 'externalisation of the sensations' and 'transference of sensibility to inanimate objects.' I was able to carry out at La Charité itself some very simple test experiments, which, at the outset, convinced me that Dr. Luys was the victim, to some extent, of trickery and imposture, and that he did not take even the elementary precautions necessary to protect himself from fraud on the part of his subjects, and from self-deception. I suggested to him at once one or two simple tests of the good faith of his patients, such as the use of an electro-magnet, in which the magnetic current could easily be extinguished without the patient's knowledge; and again, in his experiments on the influence or alleged influence of medicinal substances in sealed tubes placed in contact with the skin, I suggested that substances other than those which the patient had reason to believe were in use should actually be applied. Both of these precautions, however, he declined to take at the time, alleging either

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that he had done so in the past or would do so in the future. He could only show me, he said, his experiments in his own way, and, if I were not convinced, he could only regret it. On each of the occasions of my visits I was accompanied by independent and competent witnesses, who observed with me that in two instances in which I employed very simple magnetic tests of control, the patients were utterly at fault, giving false answers, and seeing blue flames and red flames issue from a small pocket similimagnet, which was no magnet at all, and making other blunders which equally gave reason to suspect imposture.

Subsequently to this I secured the attendance at my apartments of five of the persons on whom Dr. Luys had been and is still accustomed to give his demonstrations in the wards, and who have been the chief subjects of his 'Leçons Cliniques,' of which I have before me the printed volumes, containing reports of the marvellous phenomena produced, with photographic representations of many of them. I had in all nearly twelve sittings with these five subjects, among them being the persons shown to your correspondent and going through the performances which he describes. At all these sittings there were present medical and scientific witnesses and independent observers of undoubted competency. Among those who were present at one or other of the sittings were Dr. Louis Olivier, Docteur-es-Sciences, Directeur de la 'Revue Générale des Sciences'; Dr. Lutaud, editor of the 'Journal de Médecine de Paris'; Dr. Sajous, editor of the American 'Annual of Medicine'; M. Cremière, of St. Petersburg; Mr. B. F. C. Costello, of London, and others whose names I need not at present mention. They have signed the notes of the various test experiments. These notes are too

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numerous and too detailed to permit me to venture to burden your columns with them; I shall shortly publish them in detail. I need only say here that the whole of the phenomena were produced with sham magnets, with substituted figures, with misnamed medicinal substances, and with distilled water, and with sham 'suggestion,' opposite suggestion, or none at all. Everyone was able to convince himself that all the results so shown were, without exception, simulated, fictitious, and fraudulent. That some of the patients were hypnotic and hysterical in a high degree does not alter the fact that from beginning to end they all showed themselves to be tricksters of the most barefaced kind; some of them very clever actors, possessing dramatic powers which might have been turned to better purposes, most of them utterly venal, and some of them confessing that they played upon the credulity of Dr. Luys for their own purposes.

I do not of course ask your readers to accept this statement as final evidence, but the protocols of the sittings, signed by the witnesses present at each of them, and the detail of the methods employed will, I think, convince even the most credulous apostles of the new mesmerism that we have here to deal only with another chapter of human folly, misled by fraud; a reproduction of the old frauds of Mesmer, of the self-deceptions of Reichenbach, and the malpractices of sham magicians of the middle ages who have still their ingenious imitators. These impostures and this self-deception now mask themselves under a new nomenclature, and avail themselves of recent developments of psychological investigation in order to assume more plausible shapes and a *pseudo*-scientific character. But when the authentic details of their separate and combined simulations are read, it will only remain to regret that so

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much prominence has been given to so sad a page in human wickedness and folly, and that men of distinguished position and good faith have allowed themselves, by carelessness and persistent credulity, to be made use of as propagators and apostles of wild follies and vulgar deceptions. There is a still more painful social and moral side to this matter to which I can here only distantly allude, but which confirms me in the belief that the question is at least as much one of police as of science, and from that point of view deserves the attention of the lay authorities of the Paris hospitals and of the correctional tribunals.

I am, Sir, your obedient servant,

ERNEST HART.

'British Medical Journal,' 429 Strand, W.C., January 9, 1893.

DR. LUYS'S REPLY TO MR. HART.

TO THE EDITOR OF THE 'TIMES.'

Sir,—Mr. Hart, in a former article which appeared a few weeks ago, attacked me most violently on the subject of some hypnotical experiments which I made in his presence at the Hôpital de la Charité.

As Mr. Hart had shown me he was perfectly incompetent as judge of the matter, that he was even ignorant of the primary elements of the problem, such as the different states undergone by hypnotised patients, I concluded it was useless to waste my time by discussion with a mere amateur, and thus did not reply to assertions which I considered of no value whatever.

He has returned to the subject in a fresh article, full of malevolent insinuations and intended inaccuracy; fur-

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ther, he incriminates my honour as a man of science, coupling my name with epithets which I am surprised to find traced by his pen. I consider myself, therefore, obliged to break silence, so that the public may not remain under the influence of this extra-scientific attack.

Mr. Hart has simply mixed up, in his wrath, my personal experiments and those undertaken by my fellow-worker and friend, Colonel de Rochas, and that because they took place at the hospital in my consulting room.

In his presence I merely gave a few simple experiments and demonstrations—showing him, for instance, that when persons are hypnotised their usual faculties are raised to an extra-physiological pitch, and that the patients see things that we cannot in our normal state distinguish ; thus they behold the waves which are developed from a polarised bar and from a magnetic needle with their different colouring. In order to demonstrate the physical fact, I told him that the examination of the back of the eye, before the hypnotic state, and also during that state, by the aid of the ophthalmoscope, showed to any observer that the retina, which is pale before the operation, became instantaneously red, there being a violent determination of blood to it during the somnambulistic state, and that at the same time the possibilities of accommodation of the eye are destroyed. This is an indisputable criterion which explains the increase of the visual power, and I am not aware that this purely objective phenomenon could be caused in a fraudulent manner.

I also went through (in presence of Mr. Hart) some experiments relative to the psychical action, either attractive or repulsive, of the different poles of a magnetic bar on hypnotised patients. I also showed him that glass

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tubes, containing either brandy or tincture of valerian, applied to the same patients, could determine on them effects peculiar to those substances.

Such were the personal experiments, accomplished in presence of Mr. Hart, and which he seemed to accept with approval. And I ask all people of good faith—Is there in this anything contrary to scientific morality and which represents, as Mr. Hart emphatically states, a lamentable page of human folly, calling for the intervention of the police magistrate? *Risum teneatis, amici?*

Pursuing the campaign, Mr. Hart has deemed it necessary to make a few personal experiments on his own account (I am persuaded he knew nothing of the scientific direction of these experiments) and in a private residence, so as to be able to make these fantastic investigations quite at his ease, and under the pretext of controlling what he had seen at La Charité. He was unlucky enough to apply to patients whom I have long ceased to have recourse to, being unable to depend on their veracity. He questioned them privately, he believed solemnly in their declarations, without having a notion that these patients are so passive that the questioner can make them say anything he chooses, the most unlikely things—even, for instance, that Mr. Hart's labours in hypnotism are of the very first order. His inexperience here made him fall into the very grossest snare.

All the other experiments belonging to the exteriorisation of sensitiveness, so vehemently criticised by Mr. Hart, by means of extra-scientific processes, do not belong to me. They are real and, I confess, extraordinary discoveries made by my fellow-labourer and friend, Colonel de Rochas, whose patient researches have been most justly appreciated by most competent men.

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Briefly, all these simple things are really not worth so much rhetoric.

I am, Sir, your most obedient servant,

DR. J. LUYS,

Member of the Académie de Médicine (French College of Surgeons), Doctor of the Hospital of La Charité.

Paris, 20 rue de Grenelle, January 24, 1893.

DR. LUYS AND HIS PATIENTS.

TO THE EDITOR OF THE 'TIMES.'

Sir,—M. Luys rushes on his own sword. I was careful to avoid saying anything which should impugn his scientific honour. He now raises that perilous issue, and stands self-impeached in your columns by his own words and by no will of mine. When did Dr. Luys become convinced of 'the want of veracity' of the patients whom I have detected and denounced as impostors? He says it is long since; but the persons on whom I operated, and whose futile frauds I exposed, were the very persons on whom he showed, on several occasions between December 28 and January 6, to me and others what he speaks of as the 'simple phenomena' of magnetic attraction and repulsion; of visual perception of coloured flames from the magnet, from photographs and prints, and from the human face; the storage of thought in a head circlet; the cat performance, the tipsy scene, the transference of drunkenness by contact, and those on whom Colonel de Rochas showed at the Charité what Dr. Luys describes as real 'facts,' the transference of sensibility to the air, to a glass of water, and to a wax doll.

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The whole performance has turned out to be a pure comedy. But if Dr. Luys has long been conscious of the unveracity of the subjects who play these antics, I am at a loss to explain the fact that up to January 5 he was presenting them to myself, to his students and to journalists and visitors as sincere subjects. Their names are Marguerite, Jeanne, Clarice, and Mervel. It is Dr. Luys himself who now comes forward to proclaim that his performances were on 'untrustworthy subjects.' It is a very serious position which he thus creates for himself.

As to the completeness and convincing nature of my control demonstrations, anyone may form a judgment who is sufficiently interested by reading the details in the current number of the 'Nineteenth Century' or in the series of illustrated reports in course of publication in the 'British Medical Journal.'

From the evidence of the eye-witnesses of my experiments I select the letters of two eminent scientists—Dr. de Cyon, one of the most eminent of physiologists, and Dr. L. Olivier, D.Sc., Directeur of the 'Revue Générale des Sciences.'

Dr. de Cyon writes, under date of January 28, 1893 :—

'I can testify that the experiments at which I was present took place exactly as you have described them in your letter to the "Times." The methods which you employed to demonstrate the trickery on the part of the subjects—notably the changing of the dolls and the substitution of the glass of water and of the magnet—are of such simplicity that one finds a difficulty in believing that the physicians who have made themselves the apostles of this new superstition are acting in good faith. I have myself made numerous experiments on Dr. Luys's subjects and on

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those of many other physicians, and I have always succeeded with the greatest facility in unmasking their frauds, which really can only deceive those who wish to be deceived. Either dupes or accomplices—there is no other alternative for the adepts of the doctrines which are now tending to discredit medicine and to throw it back many centuries. I am entirely in agreement with you on what you have said as to the morality of the subjects who lend themselves to these grotesque experiments. All this concerns much more the *police des mœurs* rather than clinical medicine.'

Dr. Louis Olivier writes, under date January 19, 1893 :—

'I am quite ready to relate what I saw at the sittings which took place in your room in the Hôtel Continental. There was no agreement between the phenomena manifested by the hypnotised subjects and the production of the current of magnetisation, &c. You repeated the experiments of Dr. Luys and those of M. de Rochas, avoiding all suggestion, either involuntary or unconscious, which might vitiate the results. You took care to hide from the subjects the nature of the drugs tested, to which M. Luys attributes an action at a distance, the moment of the closure or opening of the current of your electro-magnet. Under these conditions there was no longer any relation between the nature of the medicinal agent and the symptoms manifested ; when the circuit was opened without their knowledge the subjects said they experienced the varied sensations which they ordinarily attribute to the passage of the current. They were unable to distinguish the open from the closed state of the current. You repeated M. de Rochas's experiment of *envoûtement*, employing without the knowledge of the hypnotised woman two dolls, one

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of which remained carefully separated from the sleeping woman. The latter uttered shrieks when I pulled the hair of the doll which she had not touched, &c. These facts appear to me decisive for the settlement of a question which I ought to say has been decided by the vast majority of the French scientific public in a sense absolutely opposed to the results proclaimed by MM. Luys and de Rochas. It is well that it should be known in England that the opinion of these two experimenters finds no support in the French scientific world.'

I invited Dr. Luys and Colonel de Rochas to be present at a final repetition of my experiments. Colonel de Rochas came; Dr. Luys excused himself from being present.

I am, Sir, yours faithfully,

ERNEST HART.

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