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# What the public think about hypnosis and hypnotherapy:

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What the public think about hypnosis and hypnotherapy: A narrative review of literature covering opinions and attitudes of the general public 1996-2016

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# Summary

**Objectives**: To describe the public's understanding of hypnosis and openness to hypnotherapy.

**Methods**: A comprehensive search of English language peer reviewed journal articles from 1<sup>st</sup> January 1996-11<sup>th</sup> March 2016 was performed over 9 databases (Medline, PubMed, PsycARTICLES, CINAHL, Embase (excerpta medica), PsychInfo, Cochrane, Science citation index-expanded, Conference citation index) and a title-only search of Google scholar. 39 keyword combinations were employed: hypnosis, hypnotherapy, hypnotic, perception, beliefs, knowledge, view, opinion and understanding, in singular and plural where appropriate. A search of the bibliographies of eligible articles was undertaken.

Inclusion criteria – Articles containing original data regarding the general public's attitudes towards hypnotherapy or hypnosis.

Exclusion criteria - Non-therapy hypnosis (forensic, entertainment) materials and those concerned with groups likely to possess prior or professional knowledge of hypnosis, (hypnotists, clinicians and psychologists).

Analysis was conducted in line with the questions.

**Results**: 31 articles were identified, covering diverse populations. Most people believe that: hypnosis is an altered state which requires collaboration to enter; once hypnotized perception changes; hypnotherapy is beneficial for psychological issues and is supportive of medical interventions; hypnosis can also enhance abilities especially memory. People are open to hypnotherapy subject to validation from the psychological or medical establishment. Similarity of opinion is more apparent than difference.

**Conclusion**: Most people are positive towards hypnotherapy, and would consider its use under the right circumstances.

## 1.Introduction

The use of complementary and alternative medicine (CAM) is widespread in the UK with between 21-41% of people using some form of CAM every year. Of the CAM approaches hypnotherapy enjoys only moderate popularity. Hypnotherapy is however one of only a few CAM therapies included in National Institute of Health & Care Excellence (NICE) guidelines and enjoys the support of general practitioners. The public's lack of enthusiasm may be because they lack an adequate understanding of hypnotherapy, or that they may distrust it due to negative concepts derived from popular culture. Health & Care

Numerous reviews have been conducted on hypnotherapy, covering such topics as: irritable bowel syndrome, <sup>9</sup> chronic pain, <sup>10</sup> cancer patients' symptoms, <sup>11</sup> insomnia, <sup>12</sup> labour pain, <sup>13</sup> fibromyalgia, <sup>14</sup> migraine, <sup>15</sup> nausea, <sup>16</sup> anxiety, <sup>17</sup> and temporomandibular disorders. <sup>18</sup> However no review covers the public's conception of hypnotherapy, despite nearly 80 years of research. <sup>19,20</sup> The motivation behind previous public opinion research has varied, exploring how beliefs predict outcomes, <sup>21-23</sup> how changing attitudes may affect outcomes, <sup>24,25</sup> how a patient group perceive hypnotherapy<sup>26</sup> and gathering data towards a general picture of CAM. <sup>27</sup> Some research has tried to get a picture of the beliefs of the general public<sup>28,29</sup> but this is inevitably limited to a single population group or culture. A broad understanding of the general public's perception of hypnotherapy would provide valuable information for health practitioners considering referring to or offering hypnotherapeutic services and in particular those considering establishing services, either external to or within an existent healthcare framework.

Therefore the aim of this study is to use existing research to gain an understanding of:

 What people understand by the concept of 'hypnotizability': the ability to enter trance.

- What people understand by the state of hypnosis and the phenomena associated with it.
- Whether people have preferences and biases with regard to who conducts hypnotherapy and where.
- Whether certain population groups have differing perceptions of hypnotherapy.
- Whether people are open to hypnotherapy.

As hypnosis is currently poorly understood even amongst hypnotists,<sup>30</sup> only minimal interpretations of the validity of public opinion will be forwarded. A broad definition can be offered in that 'hypnosis' refers to an interaction between a hypnotist and one or more subjects in which the hypnotist focuses the attention of the subject away from their surroundings towards their inner experience and creates changes of perception and experience through suggestion.<sup>31</sup> Hypnotherapy is when the suggestions are made towards a specific therapeutic outcome.<sup>32</sup>

#### 2. Materials and Methods

It was apparent from scoping the literature that several different assessment tools were used in different papers with variable, often uncomparable, outcome measures. In addition, a broad series of aims were proposed for the paper, which would be unachievable in a single systematic review. The narrative review approach, however, can allow the breadth and interpretation required, and was considered appropriate.<sup>33'</sup>

#### 2.1 Inclusion and exclusion criteria

- **2.1.1 Types of studies –** Studies that included definable cross sectional data, from 1<sup>st</sup> January 1996 to 11<sup>th</sup> March 2016, were included. The period was chosen as it covered a sizeable increase in CAM usage.<sup>34,35</sup>
- **2.1.2. Type of participant -** Adult participants (80% ≥18 years).
- **2.1.3 Inclusion Criteria -**. Articles were included if they contained original data regarding the general public's attitudes, opinions and perceptions of hypnotherapy or hypnosis. This did not extend to the characteristics of hypnotherapy users or non-user.

Only English language publications were included, this decision was driven by pragmatic considerations of time and resources.

2.1.4 Exclusion Criteria - Articles were excluded if they were about hypnosis used for non-therapy reasons, such as forensic hypnosis, used predominantly to recover memories in legal proceedings, or for entertainment purposes i.e. stage hypnosis. We excluded articles about groups with participants who predominantly had previous experience of hypnosis. We also excluded groups which were likely to have professionally formed opinions of hypnotherapy, including: hypnotists, who have direct experience; clinicians and post graduate level psychologists who are likely to have encountered hypnosis during training, by being approached by hypnotherapists promoting services or training, or through patient enquiry and as such will have been forced to formulate opinion with a professional slant. No exclusions were made on grounds of quality of study.

# 2.2 Search Strategy

Relevant literature was identified by a systematic review of computerized databases (Medline, PubMed, PsycARTICLES, CINAHL, Embase (excerpta medica), PsychInfo, Cochrane, Science citation index-expanded, Conference citation index) for English language articles in peer reviewed journals. Several key word combinations were employed (Hypnosis + Perception/s, Hypnosis + attitude/s, Hypnosis + belief/s, Hypnosis + Knowledge, Hypnosis + view/s, Hypnosis + Opinion/s, Hypnosis + understand/ing, Hypnotherapy + perception/s, Hypnotherapy + attitude/s, Hypnotherapy + Belief/s, Hypnotherapy + Knowledge, Hypnotherapy + View/s, Hypnotherapy + Opinion/s, Hypnotic + belief/s, Hypnotic + Knowledge, Hypnotic + view/s, Hypnotic + Opinion/s, Hypnotic + understand/ing.)

A multiple stage process of inclusion/exclusion was undertaken with titles alone examined first, then titles and abstracts or titles and introduction, if no abstract was available, then finally full-text articles. At each stage those articles clearly ineligible were

excluded. Additionally, a series of Google Scholar searches were conducted using the same keyword combinations in 'title only', with citations and patents excluded. This was sorted by the article titles and subsequently by abstract, or introduction if no abstract was available, using the same inclusion / exclusion criteria. Eligible articles' reference lists were searched for further articles that might meet the criteria. Some papers were removed upon close reading of the full article because they failed to meet the criteria. Six articles were unobtainable.

## 2.3 Data extraction

Data were extracted by one author (MK). A structured quality assessment of studies was not undertaken.

#### 3. Results:

#### 3.1 Characteristics of the studies

Thirty-one articles met the inclusion/exclusion criteria. These fell into three broad types: those which directly addressed people's attitudes, opinions and perceptions of the use of hypnosis (n = 9); those which gathered attitudinal data for some other purposes, such as assessing the differences hypnotic experience makes (n=17); and those which looked broadly at CAM approaches and included some data on hypnotherapy (n = 5). The characteristics of the included studies are in Table 1. The majority of the papers drew exclusively on quantitative data (n=30), specifically survey data with some repetition of standardized tools, such as the Opinions About Hypnosis (OAH) questionnaire<sup>36</sup> (n=5), Attitudes Towards Hypnosis (ATH) questionnaire<sup>37</sup> (n=3) and variants of the Valencia Scale of Attitudes and Beliefs Towards Hypnosis- Clients Version (VSABTH-C)<sup>38</sup> (N=2). A number of studies used both OAH and ATH (N=3).

There was a bias towards undergraduate populations (n= 15). This is ameliorated by the remaining studies being sampled from a variety of patient populations (n=10), and studies which made attempts to recruit diverse populations (n=6). The literature has a general bias towards populations with English as a first language, but includes multiple

nationalities, including samples from Iran, Germany, Hong Kong and non-English speaking U.S. Latinos. Most of the studies had a gender bias with a larger representation of women.

# 3.2 Hypnotizability

The concept of hypnotizability, meaning the ability to enter the state of hypnosis can be seen to have two distinct elements: the transition from 'normal' state to 'hypnotized'. No information was found on this topic, other than that most people think it requires relaxation.<sup>39</sup>

A number of studies have addressed the question of control ( $n=5^{22,28,38,40,41}$ ) within the transition into trance, these have found that the majority of people reject the ideas that the hypnotist is in charge<sup>40</sup>, and that people can be hypnotized against their will.<sup>22,28</sup> Most believe that collaboration is required for hypnosis.<sup>38,41</sup>

Of those papers which examined respondents' perception of their own, and other people's, hypnotizability (n=5), <sup>22,28,42-44</sup> the majority reported that most people felt they could enter a hypnotic state. <sup>22,42</sup> However, one study found that when asked about their hypnotizability the majority stated that they were 'uncertain'. <sup>43</sup> Most people appear to believe that the ability to enter hypnosis is variable. <sup>22,28,44</sup>

Six papers addressed the question of personal characteristics that people associate with hypnotizability. These found that people rejected the idea that hypnotizability was associated with mental instability however a number of the same papers identify modest agreement with the concept that intelligent people are the least likely to get hypnotised, and that those who are hypnotizable are 'weak people'. 44,46,49

Overall it can be seen that most people consider that hypnosis is a state which requires collaboration to enter, at the very least the choice not to resist, and one that most people will be able to enter, although the ease with which this happens is inversely related to intellect and strength of mind. There is too little information available about perceptions of the transition from 'normal' to 'hypnotized' to comment.

# 3.3 Hypnosis and hypnotic phenomena.

A major area of investigation has been people's beliefs about being in hypnosis, the state of hypnosis, the nature of hypnotic control and the phenomena hypnosis can produce.

# 3.3.1 The Hypnotic State

One question which has historically taxed researchers is whether or not hypnosis is a special state of consciousness or a socio-cognitive construct.<sup>50</sup> All of the studies which asked if hypnosis was a special state of consciousness found strong positive agreement for the idea.<sup>26,28,29,44,46,49,51,52</sup> Those studies which asked about socio-cognitive factors and models have found lower levels of certainty for these.<sup>26,44,46,49,51</sup> It is safe to conclude that on the evidence found people broadly believe hypnosis to be some form of altered state.

Beliefs about the nature of the hypnotic state have also been investigated. Low acceptance of hypnosis as a 'sleep state' has been observed<sup>28,39</sup> and some studies found modest evidence for recognition of concepts of dissociation and depersonalization.<sup>20,53</sup>

It can be seen that the public perceive hypnosis to be an altered state of consciousness. They are, however unclear as to the nature of that state with most, but not all, rejecting the sleep interpretation and some suggestion that a dissociative interpretation may be predominant.

### 3.3.2 Hypnotic Control

Twelve articles contribute material regarding control when already in a hypnotic state. <sup>20,26,28,29,38-40,44,46,49,53,54</sup> A number of studies (n=11) found tendencies towards the locus of control being with the hypnotist. <sup>20,28,29,38-40,44,46,49,53,54</sup> The studies which employed OAH questions <sup>26,44,46,49</sup> show a mixed picture with ideas about hypnotic responses 'happening automatically' and being irresistible being endorsed, whilst the opposite idea is also supported. A more focused form of the control debate can be seen

with those studies (n=6)<sup>26,28,29,44,46,49</sup> which have explored the phenomenon of compulsive truth-telling in hypnosis. This idea is accepted by the public to varying extents in all of the studies.<sup>26,28,29,44,46,49</sup> The data explored are not sufficient to say if the public as a whole believe that power lies with the hypnotist or the subject, although there does appear to be a slight tendency towards the hypnotist.

# 3.3.3 Awareness in hypnosis

Awareness is a subject which seven of the articles touched upon, <sup>26,28,39,44,46,49,51</sup> five through OAH based questions. <sup>26, 44,46,49,51</sup> The idea that a hypnotized person has reduced awareness is strongly endorsed <sup>26,28,40,44,46,49</sup> and there is also acceptance that hypnotic subjects may possess a 'double awareness', <sup>26, 44,46,49</sup> however it is unclear whether this undermines or explains the concept of reduced awareness. Within the literature there is significant evidence that the general public believe that hypnosis results in a reduced or internally focused awareness, it is unclear if this is seen as absolute or partial.

# 3.3.4 Beneficial phenomena

The use of hypnosis in its therapeutic and enhancement capacity is a common theme addressed by fourteen of the studies. <sup>22,26,28,29,38-40,43,44,46,49,53,55,56</sup>. The evidence suggests that hypnosis for psychological problems is strongly endorsed, <sup>22,44</sup> in particular for anxiety. <sup>39,40</sup> There is low recognition that hypnotherapy can cure physical illness. <sup>22,44</sup> There is, however, evidence of a strong endorsement for the use of hypnosis in support of medical treatment. <sup>43,55</sup> The subject of hypnotic pain control has garnered particular attention, with several studies identifying belief in its efficacy. <sup>26,38, 43,44,46,49</sup> However, a high variance of opinion is apparent in assessment of its usefulness (9% <sup>28</sup>-90% <sup>39)</sup>. In some sources this appears to be related to severity of pain <sup>43</sup>, which may indicate that it is seen as unreliable or only partially effective.

The capacity of hypnosis to enhance abilities, sometimes with implications of the superhuman or esoteric, has been examined in a number of papers, with several finding an endorsement of the concept. <sup>44,53,56</sup> The strongest endorsements for specific abilities relate to accessing past lives. <sup>28,44</sup> Memory enhancement attracts particular attention, with six papers reporting an endorsement of the concept. <sup>26,29,38,44,46,49</sup> Conversely hypnosis's ability to suppress memory is endorsed. <sup>22,28,40</sup>

The evidence suggests that the general public believe that hypnosis can have psychological, and to a lesser extent, medical benefit, and that hypnosis can enhance human capacity. There is pronounced belief in hypnosis's ability to affect memory and access past life experiences.

# 3.4 The hypnotist and their setting

Evidence has been gathered regarding the characteristics of the hypnotherapist (9 articles). <sup>26,28,39,44,46,49,51,54,57</sup> This is focused upon their individual skill in hypnotism and hypnotherapists' association with traditional relevant professions. There is good evidence that people prefer the hypnotist to be connected with the medical or psychological establishment, either through qualification<sup>28</sup> or via referral. <sup>57</sup> Additionally, there is a clear perception that the hypnotist's skill is a factor in the success of the hypnosis. <sup>26,28,44,46,49,51</sup> No evidence addressed place of practice or personal characteristics, leaving these questions open.

# 3.5 Perceptual differences in populations

A major question is how consistent are people's perceptions of hypnosis, and whether they vary with nationality, socio-economics, age or gender, however a paucity of data in most of these areas has limited any findings.

# 3.5.1 Nationality

A number of countries have been studied using the same tools, and some of these have used similar populations (students) making it possible to conduct an international analysis. A comparison of OAH scores for a U.S. population<sup>51</sup> and Chinese population<sup>44</sup> showed more similarity than difference. An analysis of a study covering the U.S., Iran, Germany and Australia found a similar pattern with only 4 statistically significant differences over 35 questions, and none of these so pronounced as to distinguish any one nation from the others.<sup>46</sup> Internationally the trend appears to favour similarity over difference.

# 3.5.2 Age

Only one study provided a finding regarding age, which was that more than double the number of students (young) would like to be hypnotized than retirees (older).<sup>28</sup>

#### 3.5.3 Gender

Evidence for gender difference is limited; one study which supplied a breakdown of findings by gender,<sup>23</sup> showed no significant differences, however an earlier study<sup>51</sup> identified small but statistically significant gender differences in 2 of 21 questions. As with nationality, similarity is far more apparent than difference.

#### 3.5.4 Education

None of the studies conducted comparisons between highly and less educated populations, nor is there data which allows for this with any reliability. One study did compare psychology students with non-psychology peers, finding the psychology students to be more positive about hypnosis.<sup>44</sup>

#### 3.5.5 Morbidity

Despite a number of studies which recruited from patient populations for methodological reasons, little comparison between patient groups and non-patients is possible. What data is available suggests that psychiatric outpatients were less aware of the medical uses of hypnosis<sup>40</sup> than general outpatients and that women having an abortion<sup>26</sup> give lower scores than their closest non-patient comparator (USA population).<sup>46</sup>

Many of the demographic details explored are on small data sets and as such can only be treated as provisional findings, however where larger bodies of data have been available the apparent theme is one of similarity.

# 3.6 Are people open to hypnotherapy?

One of the most significant questions is 'would people use hypnotherapy?'. The literature contains a multiplicity of sources providing evidence for the acceptability and positive regard for hypnotherapy, <sup>38,41-44,46,48,49,54</sup> however, a minority ranging from 1%-31% <sup>40,58</sup> rejected it. There also appears to be conditionality to the acceptance of hypnosis as a treatment, with large numbers of respondents choosing 'more information' when this option is presented, <sup>40</sup> and the suggestion of an inverse relationship between severity of intervention and willingness to accept hypnotherapy. <sup>43</sup> It would appear from the data examined that there is a positive attitude and openness towards hypnotherapy for the majority of people, however, actual use is conditional and there is a minority which rejects it.

#### 4.0 Discussion

Although a number of areas of investigation (control in trance, hypnotherapist's characteristics and preference of treatment location), yielded unclear findings, it appears that internationally the public conceive hypnosis as an altered state, which can be entered with the subject's consent under the guidance of a skilled practitioner. Once hypnotized it appears the perception is that the subject's awareness is altered to some

degree and that some medical and substantial psychological benefits can be obtained. The majority of people appear conditionally open to the idea of hypnotherapy, and a minority reject it.

Of particular interest is the apparent gap between the low acceptance of hypnosis as a medical therapy and its high acceptance as a mental health therapy. This implies that people possess a Cartesian dualism<sup>5</sup> of body and mind rather than a 'Mind-body' interactive model<sup>67</sup>. This may present a barrier to the medical use of hypnotherapy which has some of its strongest evidence with pain and gastro-intestinal conditions<sup>68</sup> both of which are likely to be perceived as bodily conditions. This trend may also apply widely to CAM therapies.

It was apparent that hypnotherapeutic services seem to be more acceptable if referral is made by a clinician. This has implications for increasing usage of hypnotherapy and may provide a counter to the limitation of a perceived psychological treatment being offered for a physical problem. Again this may be generalizable to most CAM therapies.

The resistant minority appear to be problematic for anyone wishing to promote hypnotherapeutic treatments. It may be that this group possesses a negative view of hypnosis derived from media portrayals, however, 3.8% of respondents in one study believed hypnosis could lead to demonic possession, 22 suggesting that religious beliefs may be a factor. It is unclear how large this resistant group is and thus how significant a barrier they represent.

# 4.1 Limitations

The exclusion of non-English language journals will have an effect on the international representativeness of the findings, even though a variety of nationalities have been included. We did not undertake a formal quality assessment of the studies and there

were some limitations. For example, a disproportionate number of articles used psychology students as their primary subjects. As there is tentative evidence that psychology students are more positive towards hypnosis than other students, and further that the young may be more positive towards hypnosis than the old, there is a possibility that the overall impression has a stronger positive slant than may be representative. Equally, a bias towards the female population over the male is apparent, although the significance of this is unclear.

#### 4.2 Recommendations

### 4.2.1 Recommendations for future research

There is a paucity of data in a number of areas particularly regarding how age and education affect people's attitudes towards hypnosis. Pertinent to informing practice would be a deeper understanding of how factors such as location, patient morbidity and therapists' characteristics affect attitudes to hypnosis.

# 4.2.2 Recommendation for practice

Most people appear to accept that they are hypnotizable, but there is an apparent concern around control in trance, suggesting the hypnotherapist should emphasize the patient's self-efficacy. For the practitioner looking to increase uptake of hypnotherapy it appears that a significant proportion of people are more willing to consider hypnosis if it is associated with the mainstream medical or psychological world, either through referral or qualification.

#### 5. Conclusion

The research looked at all the identifiable peer reviewed journal articles published in English from 1<sup>st</sup> January 1996 -11<sup>th</sup> March 2016, which included primary research into the adult public's perceptions of hypnotherapy. This literature covered multiple nations,

ages, patient groups and both sexes. There was a slight over representation of women and psychology students.

Most people considered hypnosis to be an altered state of consciousness which required a skilled practitioner and the subject's consent to enter. It can be seen that people were open to hypnotherapy under the right circumstances, meaning the presenting condition is mental or treatment is supportive of, but not instead of, a medical procedure, and the hypnotist needs to be identified with either the medical or psychological mainstream through qualification or referral. A number of people appeared to reject hypnosis, the significance of this is unclear as the numbers varied widely.

These findings dispel the concept that most people's attitude towards hypnotherapy is affected by negative media representation and in fact suggest that the public possess a nuanced conceptualization of hypnotherapy. It identifies a possible barrier to hypnotherapy's usage with physical problems which may explain its modest usage.<sup>2</sup>

# **Conflict of interest & funding**

MK is a hypnotherapist and is not receiving any funding and is unaware of any commercial interest in the findings. SG and KJ are part funded by the National Institute for Health Research (NIHR) Collaboration for Leadership in Applied Health Research and Care West Midlands. The views expressed are those of the authors and not necessarily those of the NIHR, the NHS or the Department of Health.

Table 1 – Studies including data on public opinion and attitudes towards hypnotherapy

Article	Nation	Population	Process	Type of study and aim	Key relevant
					findings
Barling, &	Australia.	186 Psychology	Self-administered	Cross sectional	Non-hypnotically
De Lucchi,		outpatients.	questionnaire in	questionnaire study	experienced
<b>(2004).</b> <sup>45</sup>		84 with previous	psychologists waiting	comparing the	participants had
		hypnotic experience,	room.	understanding of	poor knowledge of
		102 non-		experienced hypnotic	hypnosis but were
		experienced.		subjects and non-	moderately open to
		38.2% male		experienced hypnotic.	and in favour of it.
		55.8% female			
		5.8% unknown.			
		All adult (≥18), mean			
		age male 37.9 (2.2),			
		female 39.5 (2.0).			
Boutin et al	USA	567 Outpatients.	English language	To identify frequency of	19% think
(2000). <sup>59</sup>		Included ≤5% 18	survey distributed over	usage and attitude towards	hypnotherapy
		years.	16 municipal medical	use of CAM.	should be offered.
		52% Male,	centres to outpatients		
		47%Female	& a postal survey for		
		1% unknown	staff physicians about		
		Multiracial 60%	alternative medicine.		
		white, 18% Afro-	(250)		
		American			
Capafons,	Spain,	2404 Psychology	Questionnaire	Cross sectional, multi-	Collective scores of
et al	Cuba,	undergraduates.	administered to	national study of a survey	various individual
(2004). <sup>38</sup>	Argentine,	72.5% female	students	tool Valencia Scale of	questions suggest a
	Honduras.	27.5% male	(circumstances	attitudes and beliefs towards	belief that hypnosis
		586.	unclear).	hypnosis- Client version	is collaborative, is
		Spain 75%		REVISED (VSABTH-C) to	helpful and is of
		Cuba 15%		run a confirmatory factor	interest. There was
		Argentina 3%		analysis	low acceptance that

		Chile 3%			it provided a
		Honduras 4%			'magical solution'
		Mean age 22.3 (5.2)			
		years. 13.8% had no			
		previous hypnosis			
		experience.			
Carvalho,	Portugal	444 Psychology	Questionnaire	Cross sectional Survey	Collective scores of
et al		students	administered in class	(VSABTH-C) comparing	various individual
(2007). <sup>54</sup>		172 had experience	and by e-mail.	attitudes of those with and	questions which
		of hypnosis, 272 had		without hypnosis training.	show that the
		no hypnosis			participants believe
		experienced.			that hypnosis
		21.6% male.			requires
		76.8% female.			cooperation, and is
		1.6% unknown			helpful. It is unclear
		Age 18-54 years,			if results are out of 5
		92% under 26.			or 6.
Dufresne et	Canada	350 women ≥18	Given questionnaire	Randomised controlled trial	Pre-randomised
al 2009. <sup>27</sup>		years, attending for	pre-randomization and	of hypnosis for pain and	OAH data collection.
		first trimester	again post	anxiety during an abortion	The clearest findings
		abortions.	randomization and	procedure.	are that participants
			post intervention for		believed hypnosis to
			non-control group.		be an altered state
			Intervention was a		of consciousness in
			standardized hypnotic		which subjects
			analgesia 20 minutes		responded
			prior to surgery.		unconsciously and
					could experience
					significant
					mnemonic and
					analgesic
					phenomena.
Elkins &	USA	191 Outpatients	Survey conducted by	Cross sectional survey of	Outpatients
Wall		51% psychiatric,	mail with clinicians	clinicians & outpatient's	expressed positively
(1996). <sup>40</sup>		49% family practice.	and solicited during	perceptions of hypnotherapy	towards hypnosis,

		Mean age 37 years.	outpatient visits for the		with only 6%
		65.4% females,	outpatients		rejecting the idea of
		34.6% males.			a referral for
					hypnosis.
		56 Clinicians Mean			
		age 41 years, 7.1%			
		females, 92.9%			
		males.			
Emslie,	Scotland	341 Public.	Postal survey of	Cross sectional	17% would consider
Campbell &		Demographically	Grampian, population	questionnaire study of CAM	using it and 36.7%
Walker		stratified to within	identified using the	use and opinions about	thought
(1996). <sup>60</sup>		5% of the true adult	community health	CAM use covering 8	hypnotherapy
		population. 18≤	index	different CAM therapies.	should be available
		years.			on the NHS.
Emslie,	Scotland	432 Public.	Postal survey of	Cross sectional	37.7% thought
Campbell &		Demographically	people registered to	questionnaire study of CAM	hypnotherapy
Walker		stratified to within	vote in the Grampian	use and opinions about	should be provided
(2002). <sup>61</sup>		10% of the true adult	area.	CAM use covering 8	on the NHS.
		population. All of		different CAM therapies. A	
		voting age.		follow up on Emslie,	
				Campbell & Walker (1996)	
				to assess change.	
Gaedeke,	USA	900 Public, identified	Respondents	Cross-sectional survey to	35% would consider
Tootelian,		as 'Head of	identified via random	identify CAM awareness and	using it and
& Holst,		household' .66%	dialer, verbally	use.	willingness rose with
(1999). <sup>62</sup>		female. Age ≥21	questioned.		physician's
		J	1		priyaiciarra
		years.	1		recommendation.
		-			
		-			recommendation.
		-			recommendation. 36.1% felt it was not
		-			recommendation. 36.1% felt it was not beneficial. Over half
		-			recommendation. 36.1% felt it was not beneficial. Over half of respondents
		-			recommendation. 36.1% felt it was not beneficial. Over half of respondents expressed that

Olean	0	400 dontal 151	Detiente et en die er e	Development of the little of t	Maat had 200
Glaesmer,	German.	102 dental patients.	Patients attending a	Randomized control trial (not	Most had little or no
Geupel, &		Mean age 46.1	dental practice for a	blinded) to assess the effect	prior experience of
Haak,		years.	tooth extraction were	of hypnosis on dental	hypnosis (68.6%),
(2015). <sup>63</sup>		50% Female.	interviewed about	anxiety upon tooth extraction	about twice as many
		50% Male.	attitudes towards	patients.	considered hypnosis
			medical hypnosis and		to be scientifically
			then alternatively		based (22.5%) as
			assigned to treatment		based on 'old
			as usual (TAU) or		traditions' (11.8%),
			Hypnosis+TAU.		equally about twice
			Intervention was		as many indicated
			delivered by CD and		that 'hypnosis
			patients awoken by		should be used
			the dentist. HYP+TAU		more in medical
			patients were re-		care' (13.7%) than
			interviewed upon exit.		reported negative
					attitudes towards it
					(6.9%).
Gow et al	Australia.	279 Public. 55.9%	Participants were	Cross sectional survey of	Strong beliefs in
2006. <sup>30</sup>		Female. 44.1%	identified in their place	attitudes which is primarily	hypnosis as an
		Male. >18, 55% over	of residence by	concerned with establishing	altered state and
		36 years old.	researchers knocking	factor variance.	having mnemonic
			on doors. The		effects were
			questionnaire was		identified.
			unique but included		
			both ATH & OAH		
			questions.		
Green	USA	276 undergraduates.		Controlled trial to assess the	Pre-intervention
2003. <sup>39</sup>	UUA	37.0% males, 63.0%	In class, all		
<b>2003.</b>		•	participants were	effect of hypnotic experience	there was a strong
		females.	administered a variant	upon attitudes and opinions.	endorsement of
		Mean age 19.6 (5.7)	of the OAH		hypnosis as an
		years.	questionnaire. 146		altered state of
			were then put through		consciousness and
			the HGSHS, it is		for automatic
			unclear how this group		responsiveness

			was selected. All 276		amongst the
			were reassessed on		hypnotized.
			the OAH after a month		
			had elapsed.		
Green	USA	448	Participants completed	Trial to establish the	Identified a high
2012. <sup>41</sup>	USA				-
2012.		Undergraduates.	in class VSABTH-C &	relationship between	perception of
		50.4% female.	telegenic absorption	attitudes and beliefs about	hypnosis as helpful
		49.6% male	scale (TAS), about 7	hypnosis and hypnotic	having mnemonic
		Mean age 20.0 (4.6)	days later they	responsiveness.	effects and low
		years.	completed the		levels of fear of
			inventory of childhood		towards it.
			memories and		
			imaginings (ICMI) and		
			Harvard group scale of		
			hypnotic susceptibility		
			form A (HGSHS)		
Green &	USA	460 Psychology	In classrooms OAH	Randomized control trial to	Pre -intervention
Lynn		undergraduates.	and telegenic	assess the effect of the	data Identified
2010. <sup>24</sup>		50.6% Female.	absorption scale	manipulation of attitude	homogeneity in
		49.3% Male. Age	(TAS) surveys were	expectation upon hypnotic	gender attitude
		not supplied.	administered and then	responsiveness.	towards hypnosis.
			followed up on 7-10		
			days later. Participants		
			gave 'expectancy		
			statements' about		
			hypnosis. 4		
			randomized conditions		
			were created by varied		
			'attitude instruction'		
			then assessed with		
			HGSHS form A.		

Green et al	USA, Iran,	280 undergraduates,	A variety of on	Cross-sectional survey study	Attitudes appear
<b>2006</b> . <sup>46</sup>	Australia,	70 of each	campus recruitment	to identify cultural difference	broadly similar
	Germany.	nationality	methods were	in attitudes and opinions	across different
		70% female 30%	employed and data	towards hypnosis.	cultures.
		male.	collection approaches.		
		Mean age 20.5	The questionnaire		
		years.	combined ATH, OAH,		
			and the Beliefs About		
			Forensic Hypnosis		
			(BAFH) questions.		
Harris &	England	256 IBS suffers.	Postal survey of	Cross sectional study of	163/256 (63.7%)
Roberts		73.4% female,	previously identified	Irritable Bowel Syndrome	indicated
<b>2008</b> . <sup>57</sup>		26.6% Male.	IBS suffers.	(IBS) patient's views,	acceptance of
		All over 18, mean		receptivity and inhibitions	hypnotherapy as a
		age 55.9 (14.8)		towards 9 forms of	treatment, this was
		years.		treatment.	weighted towards
					the younger (≤55),
					with no significant
					gender, education or
					employment status
					bias.
					Negative
					respondents
					questioned efficacy
					of hypnotherapy.
					Hypnotherapy was
					more acceptable if
					recommended by a
					clinician.
Hawkins &	Australia	77 Psychology	A lecture was given to	A controlled trial to assess	The non-lecture
Bartsch		Undergraduates.	44 students on the	the impact of education	group, prior to
2000.42		88% female 12%	subject of hypnosis, 9	about hypnosis on views	application of
		Male. Mean age 24	months later those 44	and responses to hypnosis.	HGSHS showed a
		years. Only 32 of	students and 32 who		strong positive view
		these provide data	did not receive the		of hypnosis and

	which was eligible	lecturer were given a		strong desire to
	for this study, of	questionnaire which		experience it, and
	these the same	included the ATH and		modest lack of fear.
	gender ratio was	several bespoke		
	present but the	questions. The		
	mean age was 22	HGSHS was then		
	(6.7).	applied.		
Germany	310 dental patients.	Patients were	Survey of dental patient's	The majority of
	56.8% female.	questioned at	knowledge, attitudes and	respondents were
	43.2% Male. Age	department of oral and	acceptance of the use of	aware of the medical
	≥16.	maxillofacial surgery	hypnosis as part of dental	use of hypnosis and
		on Schleswig-Holstein	procedures.	positive or
		university hospital		conditionally
		using a bespoke 21		positive, towards it.
		question		A small number
		questionnaire.		(6.1%) rejected
				medical hypnosis
				entirely.
A	337 pregnant	Expression of interest	A cross sectional survey	Strong agreement
Australia.	oor program		7 Croco Coolional Carvoy	Strong agreement
67% either	women. All had	forms for the HATCh	study to identify pregnant	was found for the
67% either	women. All had	forms for the HATCh	study to identify pregnant	was found for the
67% either Australian	women. All had been recruited for	forms for the HATCh trial were made	study to identify pregnant women's understanding of	was found for the ideas that hypnosis
67% either Australian or New	women. All had been recruited for the Hypnosis	forms for the HATCh trial were made available in various	study to identify pregnant women's understanding of hypnosis in general and	was found for the ideas that hypnosis reduces anxiety and
67% either Australian or New	women. All had been recruited for the Hypnosis Antenatal Training	forms for the HATCh trial were made available in various antenatal settings. A	study to identify pregnant women's understanding of hypnosis in general and	was found for the ideas that hypnosis reduces anxiety and is good for pain
67% either Australian or New	women. All had been recruited for the Hypnosis Antenatal Training for Childbirth	forms for the HATCh trial were made available in various antenatal settings. A bespoke questionnaire	study to identify pregnant women's understanding of hypnosis in general and	was found for the ideas that hypnosis reduces anxiety and is good for pain control, strong
67% either Australian or New	women. All had been recruited for the Hypnosis Antenatal Training for Childbirth (HATCh) program	forms for the HATCh trial were made available in various antenatal settings. A bespoke questionnaire was administered to	study to identify pregnant women's understanding of hypnosis in general and	was found for the ideas that hypnosis reduces anxiety and is good for pain control, strong rejection was
67% either Australian or New	women. All had been recruited for the Hypnosis Antenatal Training for Childbirth (HATCh) program trial. 16-42 years.	forms for the HATCh trial were made available in various antenatal settings. A bespoke questionnaire was administered to participants prior to	study to identify pregnant women's understanding of hypnosis in general and	was found for the ideas that hypnosis reduces anxiety and is good for pain control, strong rejection was observed for:
67% either Australian or New	women. All had been recruited for the Hypnosis Antenatal Training for Childbirth (HATCh) program trial. 16-42 years. 59% had tertiary	forms for the HATCh trial were made available in various antenatal settings. A bespoke questionnaire was administered to participants prior to	study to identify pregnant women's understanding of hypnosis in general and	was found for the ideas that hypnosis reduces anxiety and is good for pain control, strong rejection was observed for: hypnosis as role-
67% either Australian or New	women. All had been recruited for the Hypnosis Antenatal Training for Childbirth (HATCh) program trial. 16-42 years. 59% had tertiary education (high for	forms for the HATCh trial were made available in various antenatal settings. A bespoke questionnaire was administered to participants prior to	study to identify pregnant women's understanding of hypnosis in general and	was found for the ideas that hypnosis reduces anxiety and is good for pain control, strong rejection was observed for: hypnosis as roleplay, getting stuck in
67% either Australian or New	women. All had been recruited for the Hypnosis Antenatal Training for Childbirth (HATCh) program trial. 16-42 years. 59% had tertiary education (high for	forms for the HATCh trial were made available in various antenatal settings. A bespoke questionnaire was administered to participants prior to	study to identify pregnant women's understanding of hypnosis in general and	was found for the ideas that hypnosis reduces anxiety and is good for pain control, strong rejection was observed for: hypnosis as role-play, getting stuck in trance, decreasing
67% either Australian or New	women. All had been recruited for the Hypnosis Antenatal Training for Childbirth (HATCh) program trial. 16-42 years. 59% had tertiary education (high for	forms for the HATCh trial were made available in various antenatal settings. A bespoke questionnaire was administered to participants prior to	study to identify pregnant women's understanding of hypnosis in general and	was found for the ideas that hypnosis reduces anxiety and is good for pain control, strong rejection was observed for: hypnosis as role-play, getting stuck in trance, decreasing maternal control and the need for a
67% either Australian or New	women. All had been recruited for the Hypnosis Antenatal Training for Childbirth (HATCh) program trial. 16-42 years. 59% had tertiary education (high for	forms for the HATCh trial were made available in various antenatal settings. A bespoke questionnaire was administered to participants prior to	study to identify pregnant women's understanding of hypnosis in general and	was found for the ideas that hypnosis reduces anxiety and is good for pain control, strong rejection was observed for: hypnosis as role-play, getting stuck in trance, decreasing maternal control and
	Germany  Australia.	for this study, of these the same gender ratio was present but the mean age was 22 (6.7).  Germany 310 dental patients. 56.8% female. 43.2% Male. Age ≥16.	for this study, of these the same included the ATH and gender ratio was several bespoke present but the mean age was 22 HGSHS was then (6.7).  Germany 310 dental patients. Patients were questioned at 43.2% Male. Age department of oral and ≥16.  Maxillofacial surgery on Schleswig-Holstein university hospital using a bespoke 21 questionn questionnaire.	for this study, of these the same included the ATH and gender ratio was several bespoke present but the questions. The mean age was 22 HGSHS was then (6.7). applied.  Germany 310 dental patients. Patients were Survey of dental patient's knowledge, attitudes and 43.2% Male. Age department of oral and acceptance of the use of hypnosis as part of dental using a bespoke 21 question questionnaire.

Johnson &	USA	272 respondents.	A 27 item	Cross sectional survey to	The study identified
Hauck		Varied population.	questionnaire was	identify beliefs about and	strong recognition
(1999). <sup>29</sup>		All participants were	distributed to 4 groups	sources of information	for; hypnosis as a
		undergraduate age	each with a different	regarding hypnosis.	'different state of
		or older.	demographic		consciousness', in
			composition.		trance people have
			Standardized		limited awareness,
			instructions were		mnemonic effects,
			given by either the		that both the skill of
			author or group		the hypnotist and
			leader.		the subject's ability
					are important, and
					that hypnotherapists
					have medical or
					psychological
					training. There was
					la wa a a multi a m fa m
					low recognition for;
					being hypnotized
					being hypnotized
					being hypnotized against your will and
Miller,	USA	213 colonoscopy	Patients were	A cross sectional survey	being hypnotized against your will and being unable to lie in
Miller, Schnur,	USA	213 colonoscopy screening patients.	Patients were recruited in a primary	A cross sectional survey conducted to ascertain the	being hypnotized against your will and being unable to lie in hypnosis.
	USA			•	being hypnotized against your will and being unable to lie in hypnosis.
Schnur,	USA	screening patients.	recruited in a primary	conducted to ascertain the	being hypnotized against your will and being unable to lie in hypnosis.  14.1% of participants
Schnur, Montgomer	USA	screening patients.  Mean age 58.8 (7.2)	recruited in a primary	conducted to ascertain the level of positive feeling	being hypnotized against your will and being unable to lie in hypnosis.  14.1% of participants expressed entirely
Schnur, Montgomer y, &	USA	screening patients.  Mean age 58.8 (7.2)  years.	recruited in a primary care clinic in a large metropolitan hospital	conducted to ascertain the level of positive feeling towards having hypnosis for	being hypnotized against your will and being unable to lie in hypnosis.  14.1% of participants expressed entirely favorably (40/40)
Schnur, Montgomer y, & Jandorf,	USA	screening patients.  Mean age 58.8 (7.2)  years.  72.8% female,	recruited in a primary care clinic in a large metropolitan hospital and were asked 4	conducted to ascertain the level of positive feeling towards having hypnosis for relaxation prior to	being hypnotized against your will and being unable to lie in hypnosis.  14.1% of participants expressed entirely favorably (40/40) 31.1% of
Schnur, Montgomer y, & Jandorf,	USA	screening patients.  Mean age 58.8 (7.2)  years.  72.8% female,  17.2% male.	recruited in a primary care clinic in a large metropolitan hospital and were asked 4 questions each on an	conducted to ascertain the level of positive feeling towards having hypnosis for relaxation prior to	being hypnotized against your will and being unable to lie in hypnosis.  14.1% of participants expressed entirely favorably (40/40) 31.1% of participants
Schnur, Montgomer y, & Jandorf,	USA	screening patients.  Mean age 58.8 (7.2)  years.  72.8% female,  17.2% male.  49.3% African-	recruited in a primary care clinic in a large metropolitan hospital and were asked 4 questions each on an	conducted to ascertain the level of positive feeling towards having hypnosis for relaxation prior to	being hypnotized against your will and being unable to lie in hypnosis.  14.1% of participants expressed entirely favorably (40/40) 31.1% of participants expressed entirely
Schnur, Montgomer y, & Jandorf,	USA	screening patients.  Mean age 58.8 (7.2)  years.  72.8% female,  17.2% male.  49.3% African-  American, 50.7%	recruited in a primary care clinic in a large metropolitan hospital and were asked 4 questions each on an	conducted to ascertain the level of positive feeling towards having hypnosis for relaxation prior to	being hypnotized against your will and being unable to lie in hypnosis.  14.1% of participants expressed entirely favorably (40/40) 31.1% of participants expressed entirely unfavorably (0/40)
Schnur, Montgomer y, & Jandorf,	USA	screening patients.  Mean age 58.8 (7.2)  years.  72.8% female,  17.2% male.  49.3% African-  American, 50.7%  Latino.	recruited in a primary care clinic in a large metropolitan hospital and were asked 4 questions each on an	conducted to ascertain the level of positive feeling towards having hypnosis for relaxation prior to	being hypnotized against your will and being unable to lie in hypnosis.  14.1% of participants expressed entirely favorably (40/40) 31.1% of participants expressed entirely unfavorably (0/40) 54.8% of
Schnur, Montgomer y, & Jandorf,	USA	screening patients.  Mean age 58.8 (7.2)  years.  72.8% female,  17.2% male.  49.3% African-  American, 50.7%  Latino.	recruited in a primary care clinic in a large metropolitan hospital and were asked 4 questions each on an	conducted to ascertain the level of positive feeling towards having hypnosis for relaxation prior to	being hypnotized against your will and being unable to lie in hypnosis.  14.1% of participants expressed entirely favorably (40/40) 31.1% of participants expressed entirely unfavorably (0/40) 54.8% of participants

male. of 10-40. Factor values for the Attitudes towards hypnosis, a analysis was Towards Hypnosis (ATH) strong belief that the hypnotizable were cumulative results mentally stable and a non-statistically significant difference between fearlessness of hypnosis between the genders (male 4% higher)  Molina, & Spain 80 psychology Subjects were given a undergraduates, who signed up for classed favorable, half course in hypnosis. unfavorable. They the change created by the T5% female, 25% identified up to 5 process of training in second most frequent adjective which best described Mean age 24.5 hypnosis and rated (5.1). from unfavorable (low) to favorable (high). This was repeated after their hypnosis course and responses course and responses compared.  Page, USA 266 Undergraduate Participants completed Cross-sectional study length of the classed favor hypnosis survey. 3 assessing the relationship of respondents indicated they	Milling	USA	925 Psychology	Recruitment details	A cross sectional survey to	Participants
male.  Mean age 19.3  analysis was  Towards Hypnosis (ATH)  (3.2).  conducted of the cumulative results  Determine the genders (male 4% higher)  Modina, & Spain  Modina, & Modina  Modina,	(2012). <sup>48</sup>		undergraduates.	are absent. Groups	gain a large enough pool of	expressed a mild
Mean age 19.3 analysis was Conducted of the cumulative results and a non-statistically significant difference between fearlessness of hypnosis between the genders (male 4% higher)  Molina, & Spain 80 psychology Subjects were given a undergraduates, list of 40 words, half course in hypnosis undergraduates, who signed up for classed favorable, half course in hypnosis. Unfavorable. They the change created by the therapeutic as the process of training in male. Which best described hypnosis and rated (5.1). This was repeated after their hypnosis course and responses well and by counter point so did discredited.  Page, USA 266 Undergraduate Participants completed Cross-sectional study High numbers of respondents indicated they beliefs about hypnosis with indicated they beliefs about hypnosis with indicated they beliefs about hypnosis with believed they would descredited. HGSHS: A. Experience			68% female 32%	were tested in batches	data to establish normative	positive attitude
(3.2). conducted of the cumulative results mentally stable and a non-statistically significant difference between fearlessness of hypnosis between the genders (male 4% higher)  Molina, & Spain 80 psychology Subjects were given a undergraduates, list of 40 words, half trial to identify stereotype respondents identified course in hypnosis. unfavorable. They the change created by the 'therapeutic' as the 75% female, 25% identified up to 5 process of training in second most frequent adjective Mean age 24.5 hypnosis and rated with a favorability rating of 4.2.  (5.1). from unfavorable (low) rating of 4.2.  This was repeated after their hypnosis course and responses compared.  Page, USA 266 Undergraduate Participants completed Cross-sectional study High numbers of expendents indicated they make assessing the relationship of respondents indicated they must be liefs about hypnosis with indicated they make assessing the relationship of sepondents indicated they must be liefs about hypnosis with indicated they must be able to experience			male.	of 10-40. Factor	values for the Attitudes	towards hypnosis, a
cumulative results    Cumulative results   Cumulative responses   Cumulative results   Cumulative results   Cumulative responses   Cumulative response response responses   Cumulative response respon			Mean age 19.3	analysis was	Towards Hypnosis (ATH)	strong belief that the
a non-statistically significant difference between fearlessness of hypnosis between the genders (male 4% higher)  Molina, & Spain 80 psychology Subjects were given a undergraduates, list of 40 words, half trial to identify stereotype respondents identified who signed up for classed favorable, half beliefs about hypnosis and identified unfavorable. They process of training in second most male. Which best described hypnosis. Ifrequent adjective with a favorability rating of 4.2.  (5.1). If munitavorable (low) rating of 4.2. Relaxing' and the favorable (high). This was repeated after their hypnosis course and responses compared. They were a handley, & Participants completed course and responses to day later they were seems, as sessing the relationship of respondents indicated they would 45.1% male. version of the responsiveness. be able to experience			(3.2).	conducted of the	Questionnaire.	hypnotizable were
significant difference between fearlessness of hypnosis between the genders (male 4% higher)  Molina., & Spain 80 psychology Subjects were given a undergraduates, list of 40 words, half trial to identify stereotype respondents who signed up for classed favorable, half trial to identify stereotype respondents identified course in hypnosis. unfavorable. They the change created by the 'therapeutic' as the process of training in second most male. which best described hypnosis. frequent adjective with a favorability (5.1). from unfavorable (low) rating of 4.2. (S.1). This was repeated after their hypnosis course and responses shading as seen of the process of training in second most male. Which best described hypnosis. frequent adjective with a favorability rating of 4.2. (S.1). This was repeated after their hypnosis well and by counter point so did 'discredited'.  Page, USA 266 Undergraduate Participants completed compared. Cross-sectional study High numbers of respondents beliefs about hypnosis with beliefs defended they would 45.1% male. version of the responsiveness. be able to experience				cumulative results		mentally stable and
between fearlessness of hypnosis between the genders (male 4% higher)  Molina., & Spain Molina., & Molina Molina., & Spain Molina., & Molina Molina., Molina						a non-statistically
fearlessness of hypnosis between the genders (male 4% higher)  Molina., & Spain 80 psychology Subjects were given a Uncontrolled experimental Pre-training respondents undergraduates, list of 40 words, half trial to identify stereotype respondents identified course in hypnosis.  75% female, 25% identified up to 5 process of training in second most hypnosis and rated with a favorability from unfavorable (low) rating of 4.2.  (5.1). from unfavorable (low) rating of 4.2.  This was repeated after their hypnosis well and by counter course and responses course and responses point so did responses and stered.  Page, USA 266 Undergraduate psychology a hypnosis survey. 3 assessing the relationship of respondents indicated they students. days later they were beliefs about hypnosis with indicated they mould 1997. Students. days later they were beliefs about hypnosis with indicated they mould 1997. Students. days later they were beliefs about hypnosis with believed they would 1997. Students were sone of the responsiveness. be able to experience						significant difference
hypnosis between the genders (male 4% higher)  Molina., & Spain 80 psychology Subjects were given a undergraduates, list of 40 words, half trial to identify stereotype respondents who signed up for classed favorable, half beliefs about hypnosis and identified course in hypnosis. unfavorable. They the change created by the 'therapeutic' as the 75% female, 25% identified up to 5 process of training in second most male. Which best described hypnosis. frequent adjective with a favorability rating of 4.2.  (5.1). from unfavorable (low) rating of 4.2.  This was repeated after their hypnosis well and by counter course and responses sold described.  Page, USA 266 Undergraduate Participants completed Cross-sectional study High numbers of respondents indicated they beliefs about hypnosis with beliefs about hypnosis between the genders (male 4% higher)  Page, USA 266 Undergraduate Participants completed Cross-sectional study High numbers of respondents indicated they beliefs about hypnosis with believed they would be able to experience						between
the genders (male 4% higher)  Molina., & Spain 80 psychology Subjects were given a undergraduates, list of 40 words, half trial to identify stereotype respondents lead to dentified the change created by the second most frequent adjective Mean age 24.5 hypnosis and rated Mean age 24.5 hypnosis and rated (5.1). from unfavorable (low) This was repeated after their hypnosis course and responses compared.  Page, USA 266 Undergraduate Page, USA 266 Undergraduate Absolute A						fearlessness of
Molina., & Spain 80 psychology Subjects were given a Uncontrolled experimental Pre-training Mendoza undergraduates, list of 40 words, half trial to identify stereotype respondents (2006). 44 who signed up for classed favorable, half beliefs about hypnosis and identified course in hypnosis. unfavorable. They the change created by the 'therapeutic' as the 75% female, 25% identified up to 5 process of training in second most hypnosis. Mean age 24.5 hypnosis and rated with a favorability from unfavorable (low) rating of 4.2.  (5.1). from unfavorable (high). 'Relaxing' and 'useful' also scored after their hypnosis course and responses course and responses course and responses sompared.  Page, USA 266 Undergraduate Participants completed Cross-sectional study High numbers of assessing the relationship of respondents indicated they believed they would 45.1% male. version of the responsiveness. be able to experience						hypnosis between
Molina., & Spain 80 psychology Subjects were given a undergraduates, list of 40 words, half trial to identify stereotype respondents (2006). Half trial to identify stereotype respondents identified course in hypnosis. Unfavorable, half the change created by the the change creat						the genders (male
Mendoza undergraduates, list of 40 words, half trial to identify stereotype respondents who signed up for classed favorable, half beliefs about hypnosis and identified course in hypnosis.  75% female, 25% identified up to 5 process of training in second most hypnosis.  Mean age 24.5 hypnosis and rated (5.1). from unfavorable (low) rating of 4.2.  to favorable (high). Relaxing' and This was repeated after their hypnosis course and responses compared.  Page, USA 266 Undergraduate psychology a hypnosis survey. 3 assessing the relationship of Green, students. days later they were beliefs about hypnosis with believed they would 45.1% male. version of the responsiveness. be able to experience						4% higher)
who signed up for classed favorable, half beliefs about hypnosis and course in hypnosis.  unfavorable. They the change created by the 'therapeutic' as the process of training in second most hypnosis.  male. which best described hypnosis.  Mean age 24.5 hypnosis and rated (5.1).  from unfavorable (low) rating of 4.2.  to favorable (high).  This was repeated after their hypnosis course and responses course and responses compared.  Page, USA 266 Undergraduate Participants completed Analdey, & psychology a hypnosis survey. 3 assessing the relationship of respondents  Green, students. days later they were beliefs about hypnosis and identified the change created by the 'therapeutic' as the 'therapeu	Molina., &	Spain	80 psychology	Subjects were given a	Uncontrolled experimental	Pre-training
course in hypnosis. unfavorable. They the change created by the 'therapeutic' as the 75% female, 25% identified up to 5 process of training in second most frequent adjective Mean age 24.5 hypnosis and rated (5.1). from unfavorable (low) rating of 4.2. 'Relaxing' and This was repeated after their hypnosis well and by counter course and responses compared. 'discredited'.  Page, USA 266 Undergraduate psychology a hypnosis survey. 3 assessing the relationship of respondents foreign.  Green, students. days later they were beliefs about hypnosis with indicated they 1997. <sup>23</sup> be able to experience	Mendoza		undergraduates,	list of 40 words, half	trial to identify stereotype	respondents
75% female, 25% identified up to 5 process of training in second most male. which best described hypnosis. frequent adjective with a favorability (5.1). from unfavorable (low) rating of 4.2. (Relaxing' and to favorable (high). This was repeated after their hypnosis course and responses course and responses compared.  Page, USA 266 Undergraduate Participants completed Cross-sectional study High numbers of the second most process of training in second most frequent adjective with a favorability rating of 4.2. (Relaxing' and 'useful' also scored after their hypnosis well and by counter course and responses point so did 'discredited'.  Page, USA 266 Undergraduate Participants completed Cross-sectional study High numbers of respondents assessing the relationship of respondents indicated they beliefs about hypnosis with indicated they perceived hypnotic believed they would 45.1% male. version of the responsiveness. be able to experience	(2006). <sup>64</sup>		who signed up for	classed favorable, half	beliefs about hypnosis and	identified
male. which best described hypnosis. frequent adjective  Mean age 24.5 hypnosis and rated with a favorability  (5.1). from unfavorable (low) rating of 4.2.  to favorable (high). Relaxing' and  This was repeated after their hypnosis well and by counter course and responses compared. discredited'.  Page, USA 266 Undergraduate Participants completed compared. Participants completed assessing the relationship of respondents  Green, students. days later they were beliefs about hypnosis with indicated they perceived hypnotic believed they would 45.1% male. version of the responsiveness. be able to experience			course in hypnosis.	unfavorable. They	the change created by the	'therapeutic' as the
Mean age 24.5 hypnosis and rated with a favorability  (5.1). from unfavorable (low) rating of 4.2.  to favorable (high). 'Relaxing' and  This was repeated after their hypnosis well and by counter course and responses compared. 'discredited'.  Page, USA 266 Undergraduate Participants completed Cross-sectional study discredited'.  Page, USA 266 Undergraduate Participants completed Cross-sectional study assessing the relationship of psychology a hypnosis survey. 3 assessing the relationship of respondents indicated they beliefs about hypnosis with indicated they perceived hypnotic believed they would 45.1% male. version of the responsiveness. be able to experience			75% female, 25%	identified up to 5	process of training in	second most
(5.1). from unfavorable (low) rating of 4.2.  to favorable (high). 'Relaxing' and 'useful' also scored after their hypnosis well and by counter course and responses compared. 'discredited'.  Page, USA 266 Undergraduate Participants completed Cross-sectional study High numbers of Psychology a hypnosis survey. 3 assessing the relationship of respondents indicated they beliefs about hypnosis with indicated they 1997. 19			male.	which best described	hypnosis.	frequent adjective
to favorable (high).  This was repeated after their hypnosis course and responses compared.  This was repeated after their hypnosis well and by counter point so did discredited.  Page, USA 266 Undergraduate Participants completed Cross-sectional study High numbers of assessing the relationship of respondents  Green, students.  days later they were beliefs about hypnosis with indicated they believed they would 45.1% male. version of the responsiveness.  be able to experience			Mean age 24.5	hypnosis and rated		with a favorability
This was repeated after their hypnosis well and by counter course and responses point so did 'discredited'.  Page, USA 266 Undergraduate Participants completed Cross-sectional study High numbers of a hypnosis survey. 3 assessing the relationship of respondents indicated they beliefs about hypnosis with indicated they students. days later they were beliefs about hypnosis with believed they would 45.1% male. version of the responsiveness. be able to Mean age 20.7 (5.6) HGSHS: A.			(5.1).	from unfavorable (low)		rating of 4.2.
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Page, USA 266 Undergraduate Participants completed Cross-sectional study High numbers of psychology a hypnosis survey. 3 assessing the relationship of respondents students. days later they were beliefs about hypnosis with indicated they believed they would 45.1% male. version of the responsiveness. be able to Mean age 20.7 (5.6) HGSHS: A.				course and responses		point so did
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1997. <sup>23</sup> 54.9% Female, given a tape recorded perceived hypnotic believed they would 45.1% male. version of the responsiveness. be able to Mean age 20.7 (5.6) HGSHS: A. experience	Handley, &		psychology	a hypnosis survey. 3	assessing the relationship of	respondents
45.1% male. version of the responsiveness. be able to  Mean age 20.7 (5.6) HGSHS: A. experience	Green,		students.	days later they were	beliefs about hypnosis with	indicated they
Mean age 20.7 (5.6) HGSHS: A. experience	1997. <sup>23</sup>		54.9% Female,	given a tape recorded	perceived hypnotic	believed they would
			45.1% male.	version of the	responsiveness.	be able to
years. 7 participants hypnosis, very small			Mean age 20.7 (5.6)	HGSHS: A.		experience
			years. 7 participants			hypnosis, very small
were dropped from numbers associated			were dropped from			numbers associated

		the original due to			hypnosis with
		previous hypnotic			gullibility and
		experience leaving			demonic
		259 however age			possession. A
		_			marked difference
		and gender figures are based on the			
					was apparent
		original 266.			between the belief in
					hypnosis's ability to
					help with
					psychological
					(62.5%) and
					physical illness
					(15.8%).
Pettigrew,	USA	250 women	Women waiting for	Cross-sectional study to	196 / 250 rated the
King,		attending a women's	appointments with	identify women's	perceived
McGee, &		health clinic.	physicians & midwives	understanding of, their	effectiveness of
Rudolph,		Mean age 31 (12.3)	were approached by a	perceived effectiveness of	hypnosis as 3.04/5.
2004.55		years.	registered nurse data	and sources of information	
			collector to complete	about CAM	
			the questionnaire.		
Pires,	Portugal	152 students of the	No details of	An experimental study	'Belief in the altered
Pires, &		faculty of	recruitment methods.	attempting to understand the	state of
Ludeña,		psychology and	In a group session	difference in opinions	consciousness.'
<b>2013.</b> <sup>52</sup>		educational science.	Each participant	engendered towards	30.2/54 (SD 3.54)
		Of whom 115 went	completed the	hypnosis by experiencing	
		through the full	VSABTH-C	hypnosis or an imaginal	
		procedure. No	questionnaire. In a	equivalent.	
		gender or age	second session (2-4		
		details supplied.	weeks later) the		
			participants were		
			assigned to either an		
			imagination condition		
			or a hypnosis		
			condition.		

Shimizu	Japan	1104	Students who were	A Cross-sectional study that	Strong beliefs in
<b>2014.</b> <sup>53</sup>		undergraduates on a	willing completed the	assess the relationship of	'loss of control, and
		psychology course.	BHSQ in class, and a	beliefs about hypnosis with	'therapeutic
		49.2% Female,	proportion completed	perceived hypnotic	expectation' and
		50.4% Male, 0.4%	a modified ATH, some	responsiveness.	moderate
		·	volunteered to go	responsiveness.	
		unspecified. Mean	ŭ		endorsement of
		age 19.9 (2.0) years.	forward to go through		'Dissociation' and
		A subgroup of 180	the and SES in groups		'arousal of
		conducted the full	of 1-5. Exploratory		extraordinary
		experiment.	factor variance was		abilities'
			then conducted		
			between all four		
			measure		
<b>Shimiz</b> u	Japan	360 undergraduates.	Method of recruitment	Cross-sectional study	Strong beliefs in
2016. <sup>21</sup>		53% Female, 47%	is unclear. All subjects	assessing the relationship of	'loss of control, and
		Male.	completed the BHSQ-	beliefs about hypnosis with	'therapeutic
		Mean age 19.4 (1.5)	R & TRS, 106 subjects	perceived hypnotic	expectation' and
		years. A subgroup	completed the	responsiveness.	mild endorsement of
		volunteered to	HGSHS:A and SES in		'Dissociation' and
		conduct the full	groups of 1-4, in a		'arousal of
		experiment of 106,	sound proof		extraordinary
		66% female 34%	environment.		abilities' very similar
		Male.	Exploratory factor		findings to Shimizu
			analysis was		2014.
			conducted for the		
			TRS, TRS- BHSQ-		
			variance, and		
			volunteer – non-		
			volunteer variances for		
			TRS and BHSQ were		
			calculated.		

Wang,	USA	1235 respondents	Questionnaires were	Cross-sectional Survey	21% were willing to
Caldwell-		from a broad	distributed to all	assessing comparative	incorporate hypnosis
Andrews &		demographic base.	patients presenting for	usage and interest in CAM	into anesthesia care.
Kain 2003. <sup>65</sup>		61% female, 39%	non-emergency	approaches in out and in	
		Male. Mean age 51	surgery at Yale-New	surgical patients	
		range 18-92 years.	Haven Hospital. The		
			inpatient and		
			outpatient responses		
			were compared.		
Yu 2004. 44	China	457 undergraduates.	Method of recruitment	A cross-sectional survey	No statistically
		43.3% psychology	is unclear, but	study of Chinese student's	significant difference
		majors.	participants were	attitudes and beliefs about	was observed
		66.5% female,	volunteers. They filled	hypnosis with comparison	between the
		33.5%. male.	questionnaires out in	with western equivalents	attitudes of the
		Mean age 21.3 (2.3)	silence. The	and internal comparison of	psychology
		years.	questionnaire contains	psychology and non-	undergraduates and
			elements of OAH &	psychology students.	the non-psychology
			AST		undergraduates
					regarding the
					general beliefs
					about hypnosis. In
					the AST psychology
					majors were more
					positive towards
					hypnosis than non-
					majors, this was
					statistically
					significant for
					questions 1,3,4,7,
					12.
Yu 2007. <sup>49</sup>	China	120 psychology	Subjects were	Randomized controlled trial	Subjects showed a
		undergraduates.	randomly chosen from	to establish the effect of the	high degree of belief
		74% female, 26%	a pool of psychology	CIS test on perceptions of	in involuntariness in
		male.	majors, then assigned,	hypnosis	hypnosis and a high
		Mean age 21.6 (2.8)	using a stratified and		degree of control by

years.	random allocation	the hypnotist over
	method to	the subject. They
	experimental (75%) or	also showed a high
	control condition	level of belief in the
	(25%). Both conditions	altered state of
	completed a survey	consciousness. The
	based on the AST and	lowest expressions
	OAH prior to the	of belief were noted
	experimental condition	for the hypnotic
	subjects receiving the	response being
	CIS, whilst the control	mainly about the
	subject waited, then	skill of the hypnotist
	both groups were	and the idea that
	retested with the	suggestions cannot
	questionnaire.	be rejected when in
		trance.
<u></u>		

#### Abbreviations;

ATH = Attitudes Towards Hypnosis Questionnaire

BHSQ = Beliefs about Hypnotic State Questionnaire

BHSQ-R = Beliefs about Hypnotic State Questionnaire- revised

**CAM = Complementary and Alternative Medicine** 

HGSHS:A = Harvard Group Scale of Hypnotic Susceptibility Form A

**OAH = Opinions and Attitudes about Hypnosis questionnaire** 

**SES = Subject Experience Scale** 

TRS = Therapeutic Reactance Scale

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