Coprophilia-Faeces Lust in the Forms of Coprophagia, Coprospheres, Scatolia and Plasterering in Dementia Patients, Our Thoughts and Experience

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Abstract: Coprophilia is a rather often behaviour among the dementia patients. Faeces lust, coprospheres, coprophagia, scatolia, and plasterering are the appearance patterns of this kind of peculiar phenomenon. It seems that dementia patients mentally return to a newborn status with simultaneously loss of toilet skills, acquiring primitive primordial basic instincts. Coprophilia in dementia is an unstudied behaviour. Eroticism, narcissism, fetishism, brain atrophy and/or frontotemporal malfunction, and gene mutations are implicated. Our objective is to study this peculiarity in dementia patients. Our scientific interdisciplinary team have selected a group of 37 patients presenting coprophilia during the last 5 years (January 2011 - January 2016), all clinic inmates. Positive practice overcorrection procedure should be instituted, and/or disciplinary enquiry, and/or SSRIs to reduce coprophilic incidents. In our clinic, a percentage between 8% to 12% of patients with mild to moderate dementia exhibited coprophilia, while among the patients with severe dementia the percentage was significantly lower, 1% to 2%. Our experience, when perusing the results of our study on dementia patients, drove us to conclude that specialized bondage during bed time is the only measure to reduce incidents. Among 37 coprophilic patients hospitalized inside the Hellenic Reference Centre for Alzheimer Disease and Related Dementia Syndromes the last five years, we haven't met not even one patients with complete remission besides our external interventions and efforts. There are no availliable batteries to actually measure behavioural patterns in coprophilia, while scientific data concerning aetiology and confrontation are rather limited due to lack of manuscript publication. We therefore, strongly believe that with the means availliable (procedures and medication), coprophilia in dementia is an incurable and unstoppable behaviour, and further study to understand and confront it should be administered in the near future.

Keywords: Coprophilia, Coprophagia, Coprospheres, Plasterering, Dementia, Specialized Bondage

1. Introduction

The increased life expectancy of people worldwide has increased the number of older adults with dementia, with the WHO's dementia report estimating that there were 7.7 million new cases of dementia each year, equal to one new case every 4 seconds. Behavioural and psychological symptoms of dementia occur in nearly 70% of older adults with dementia, presenting more than 100 types of problematic behaviours, causing considerable inconvenience and concern among family caregivers and medical staff [1-2]. Among the symptomatology a grotesque symptom scintillate, the lust for faeces in the forms of coprophagia, scavenging, calcinating or conjuring up "spheres" and scatolia, behaviours that are socially unacceptable [3].

Coprophagia, a particular form of pica (allotriophobia) and generally the lust for faeces (coprophilia), appear in patients with diffuse brain damage and in persons with mental retardation (or with intelligence bellow the average). It also appears during the early childhood, while it is a usual phenomenon among the non human primates. Coprophilia is
a common act in people who are unable to distinguish objects and substances in foods and non-foods, who have a tendency for scavenging among excrements. Dementia patient "returns" gradually in a mental primitive stage like in childhood and eventually in infancy, simulating similar behaviours, even adopting the "fetal" position during the day. Is the deficiency of nutrients, the feeling of hunger, the boredom, the dementia syndromes themselves, the attempt to avoid punishment due to the un-clean status after a faeces accident that lead to the eating and/or smearing of faeces, or simply an "abnormal" psycho-emotional behavioural disorder, an inability to skill for defecation or maybe a restitution to a primordial, primitive, basic instincts, or the complacency-narcissism and/or a sexual deviation and pathological eroticism towards everything that comes from the human body? The answer is surely complex and combinatorial [4-9].

Even if there is no specific aetiology, all these situations having to do with coprophagia or faeces lust, have not received significant attention in the adult psychiatric literature, and mostly present a bizarre subject, usually forbidden for the caregivers and taboo for the medical staff. Our study aims to provide some information on the subject, mainly presenting ours interdisciplinary team experience over the years in the "Hellenic Reference Centre For Alzheimer Diseases and Dementia Related Syndromes". We have tried to compose some ideas about aetiology, while we present some statistics after the application of three different interventions. Positive practice overcorrection procedure, medication and restrains protocol were applied for coprophilic patients to be studied.

2. Primordial, Primitive, Basic Instincts

Among the non-human primates peculiar acts which could demystify the origin of our social and sexual behaviours could be discovered. Most primates, as social animals, need to communicate, as humans do, with conspecifics and individuals of other species in different contexts (agonistic interactions and territorial defence or marking) including above all mating rituals and sexual attitude. Primates by depositing urine and faeces with secretions from sex accessory glands or the anal gland, and by depilating their selves with faeces enable the scent communication (a type of chemical communication), especially when a socio-sexual pattern for coupling needs to be performed [8-10]. Most studies agree that behaviours as the above mentioned are a sign of intelligence, need neurological coordination and are most probably premeditated [11].

Animals have been reported to seek out sodium, calcium, magnesium, and potassium, as well as specific vitamins, and those sought items may be found in natural food sources, mineral licks, or even in the animals’ own faeces (Fig. 1) [12]. It has been reported that the ingestion of faeces can serve as a source of some vitamins, aid in the fermentation of other nutrients, and/or assist in the digestion or absorption of the animals’ natural diets [13]. Primates practice coprophagia and/or faecal as a behavioural adaptation that provides animals access to energy and nutrients and may be an important nutritional source for older, and/or dentally impaired individuals during the dry season [14-15].

Dementia patients have a diminished mental capacity that constantly is being reduced [16] towards a capacity analogue to a newborn's, possibly acquiring all primordial instincts. Furthermore, as nutritional decrease in the amount eaten (oligophagia), together with the loss of weight is probably the most common disturbance in dementia [17], something that could lead in a search for supplementary food sources.

3. Faeces lust in Ancient Greece and the Freudian Narcissistic Theory

In Ancient Greece during the orgies dedicated to the god Dionysus, bizarre erotic fetishes were in constant use. Many depictions of people defecating in clay pots (Fig. 2 & Fig. 3) during an orgy, prove the narcissistic erotic deviation in ancient cultures [18-20]. As dementia causes many changes in people's lives, sexually disinhibited behaviours are quite common [21]. Hypersexuality may result the use of scat as a mean to promote libido. Freudian theory suggest that the
object of desire in not the person of the opposite sex, but something more abject, an object a faeces in this case [22]. Coprophagia serves as an attempt to re-establish a threatened narcissistic equilibrium usually lost in dementia. The loneliness could be compensated by the symbolic re-introjection of the dearly body excrements that have been lost during defecation [23]. Thus dementia patients, could imitate some of those patterns.

4. Coprospheres

Some non human primates except from eating their faeces, they are also throwing then. Throwing has mostly been recorded in the context of both inter and intraspecies agonistic encounters, although some have described it as a means of initiating play or communication [24-26]. In such a way (non human primates = newborns model) dementia patients exhibit the same deed by forming a kind of spheres made by their faeces (Fig. 4 & Fig. 5) in order to attract attention, communicate, or punish the caregivers in the case of a misunderstanding [27]. It is peculiar the fact that coprospheres are being encountered more frequently during the last years.

5. Coprophagia

Coprophagia has been observed in psychiatric hospitals among adult patients with diffuse brain disease and in individuals with sub average intelligence. Although it is an uncommon act in the general population (seen only as an escalation of fetish during sex, usually combined with anal erotism), can be met in dementia populations causing patients, families and caregivers to tell tales of behavioural changes that sometimes encroach on the incredible [9, 28].

Coprophagia is usually considered as an obsessive-compulsive disorder, or as a kind of pica. Of all the
maladaptive behaviour of the institutionalized patients, coprophagia is generally regarded by the staff as the most disgusting. The coprophagic patient who digs in his rectum for faeces to eat or eats the faeces of others, receives scant attention from ward staff. He smells bad, is generally quite messy and can be a source of infection and infestation. Frequently, is kept in isolation, or his arm movements are restricted by specialized restraints [29]. Although it is a rather common phenomenon, the epidemiology of coprophagia in persons with dementia is unknown. Health risks of this behaviour are obvious and its effects on the individual’s quality of life are also self-evident. Coprophagia is a source of self infection since the scavengers' hands come constantly into frequent contact with his mouth, and the ingestion of faecal matter can cause chronic infestation from intestinal parasites such as whipworms, which are a common finding in their excrements. The practice of coprophagia is also associated with a multitude of serious health problems that place the demented elder at grave risk, including the hepatitis A virus, skin abscesses, airway obstruction, aspiration, and sialadenitis [29-30].

6. Scatologia

Scatologia, the smearing of faeces (osphresiolagnia) or presence of faeces on the hands and/or body (Fig. 6), is another form of faeces lust encountered in dementia patients. Scatologia is among the least understood behaviours [2]. Smearing of faeces can be an act of passive retribution and it is reported that its frequency is higher at night than during the day [31]. Negative affect in patients with dementia might contribute to scatologia. From clinical observations, scatologia often occurs when people suffering from dementia are trying to clean themselves up after a "poop accident", and the faeces get everywhere. The disturbance of circadian rhythm might also contribute to its occurrence [32]. Narcissism, bored dementia patients, lack of toilet skills could also be involved in an attempt to clarify such a troublesome behaviour [2, 31].

7. Plasterering ( Finger Painting)

In some occasions dementia patients plaster the wall with their faeces, an act known as "finger painting" [31], a behaviour met also in non human primates (Fig. 7). It represents most probably an attempt to maintain their attention towards an artistic satisfaction. It is a form of art therapy or a distress patent for them to use finger painting in order to shape simple models, lines in circular alignment in most cases (Fig. 8). In the absence of markers, faeces for dementia patients could do the trick [33].
Frontotemporal malfunction due to degenerative or vascular lesion could be connected with repulsive behaviours. As of lately three major genetic mutations causing frontotemporal dementia are reported and are now recognised in the microtubule-associated protein tau and the progranulin genes, and repeat expansions in the C9orf72 gene [27, 34]. The behavior may be related to medial temporal lobe atrophy, similar to the Klüver-Bucy syndrome and hyperorality, seizures, steroid psychosis, frontal lobe tumour, schizoaffective disorder, and autism [35-37].

Positive practice overcorrection procedure (hygiene procedures) should be instituted combined with tactile stimulation that should be accomplished as frequently throughout the day as necessary [29]. Interdisciplinary teams and behaviour observers are necessary to design and conduct all psychoneurological interventions (interview, discussion, artificial faeces) [38]. A combination of psychopharmacologic therapy of faeces lust (as a kind of pica) is customarily more effective. Treatment with SSRIs (Selective Serotonin Re-uptake Inhibitors) including fluoxetine, sertraline and escitalopram has been shown to reduce pica’s intensity and patients responded rapidly. Their obsessive properties [39-44]. There is reference for treatment targeting progranulin genes, and repeat expansions in the C9orf72 gene [27, 34]. The behavior may be related to medial temporal lobe atrophy, similar to the Klüver-Bucy syndrome and hyperorality, seizures, steroid psychosis, frontal lobe tumour, schizoaffective disorder, and autism [35-37].

It should be emphasized that psychological therapy is only applicable to patients with mild to moderate dementia, while drug treatment is more suitable for patients with severe dementia (including last stage dementia).

9. Method

The study was conducted in the Hellenic Specialized Centre for Alzheimer Disease and Dementia Related Syndromes in Alykes Volos (central Greece). For a period of 5 years, from January 2011 to January 2016, we have selected the coprophilic dementia patients of our centre to be included in our study (n=37). We have then applied to each and every one 3 external interventions, i) correctional behaviour patterns, ii) SSRIs, and iii) specialized bondage. Every intervention was applied for 1 week to the patients, with an interval of 1 month between the 3 applications. All interventions were always subjected to the law of the Greek state (3418/2005) concerning guidelines and ethics.

10. Results

It is widely mentioned the absence of adequate studies on the matter. In our clinic (Specialized Hellenic Centre for Alzheimer Disease and Related Syndromes) the last quinquennium our team have observed and studied 311 dementia patients (Table 1 & Table 2) presenting behaviour patterns, ii) SSRIs, and iii) specialized bondage. A percentage of 8% up to 12% of patients with mild to moderate dementia exhibited coprophilia, while among the patients with severe dementia the percentage was between 1% to 2% only (maybe because of dyskinetic hurdles and/or brain atrophy). Scatolia is also commonly found in almost all dementia coprophilic patients.

Table 1. Demographic characteristics of the sample. Hellenic centre for Alzheimer disease and related syndromes-Nervological clinic ‘Agios Georgios’, Alykes, Volos, Greece.

<table>
<thead>
<tr>
<th>Sex</th>
<th>Number</th>
<th>Living area</th>
<th>Education</th>
<th>Age Distribution</th>
<th>Blue Collars</th>
<th>White Collars</th>
<th>Business men</th>
<th>House keeping**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>14</td>
<td>4 Urban</td>
<td>No Middle* University</td>
<td>50-65</td>
<td>66-70</td>
<td>71-80</td>
<td>80+</td>
<td>2 1 0</td>
</tr>
<tr>
<td>Female</td>
<td>23</td>
<td>9 Rural</td>
<td>1 Island</td>
<td>2 10 2 3</td>
<td>0 3 11 6</td>
<td>12 3 0 8</td>
<td>1 4 7 22</td>
<td>1 8</td>
</tr>
<tr>
<td>Total</td>
<td>37</td>
<td>13 Rural</td>
<td>2 Island</td>
<td>9 23 5</td>
<td>2 7 21 7</td>
<td>23 5 1 8</td>
<td>1 4 7 22</td>
<td>1 8</td>
</tr>
</tbody>
</table>

* Middle education: Elementary, Junior High School, High School.
** House keeping: It refers only to the exclusive preoccupation, while all female patients under the blue collars category were also responsible for the housekeeping.

Table 2. Dementia coprophilic patients the last quinquennium (2011-2015).

<table>
<thead>
<tr>
<th>Year</th>
<th>New patients per year</th>
<th>Coprophilia</th>
<th>Mild to moderate dementia</th>
<th>Episodes per day 1-5</th>
<th>Episodes per day 6+</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
<td>114</td>
<td>17</td>
<td>14</td>
<td>10</td>
<td>4</td>
</tr>
<tr>
<td>2012</td>
<td>50</td>
<td>5</td>
<td>5</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>2013</td>
<td>47</td>
<td>6</td>
<td>5</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>2014</td>
<td>81</td>
<td>7</td>
<td>6</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>2015</td>
<td>19 (first 6 months)</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Total 311</td>
<td>Total 37 (11,89%)</td>
<td>Percentage 8%-12%</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
On the other side of live, this of the caregivers (medical and nursing staff, family, friends, attendant, volunteers), all experience tremendous barriers in caring and have significant treatment and behavioural obstacles to cope. Thus specialized institutions (residence, clinic, hospital) and interdisciplinary teams are needed to holistic deal with such patients. Always have in mind the interdisciplinary support which is needed by the caregivers who are under constant psychological and social pressure.

Our team strongly believe to the theory of the "return to early childhood" for these patients, with not adequate mental capacity and with no toilet skills and a tendency towards our species primordial instincts and. As far as the recurrence towards coprophilia (Table 3 & Table 4), has only shown diminution, especially the group of the mild to moderate dementia patients, but in no case complete inversion (elimination 0%). Our team decided to perform three external interventions. We have established 1 week protocols for the positive practice overcorrection procedure (eating flavoured food, puzzle performance) and for the disciplinary enquiry (cleaning the room), while the application of a three month medication protocol with SSRIs was applied, in an attempt to correct coprophilic incidents. As of our last resource, we were forced to apply 1 month specialized bondage protocol during bed time, in most cases to confront with health and quality of live issues. Disciplinary enquiry has no point to be performed in severe dementia patients, none seemed to react to the orders. Bondage proved to be the only effective measure to prevent coprophilic incidents. Even if sometimes a firm bondage imitation is applied, the patient almost always find ways to overcome it in order to ally his lust. Many times patients were found upside down in awkward positions trying to reach their anus or their dirty diapers. We even have a patient that constantly during the night and always under bondage, turns his body in such a position to defecate in his face. Coprophilia seems to be in our opinion an irreversible behaviour for the dementia patients.

<table>
<thead>
<tr>
<th>Severe dementia</th>
<th>Episodes per day 1-5</th>
<th>Episodes per day 6+</th>
<th>Coprophagia</th>
<th>Scatologia</th>
<th>Plasterering</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>3</td>
<td>0</td>
<td>5</td>
<td>3</td>
<td>15</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>1</td>
<td>0</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>

Percentage 1%-2%

On the other side of live, this of the caregivers (medical and nursing staff, family, friends, attendant, volunteers), all experience tremendous barriers in caring and have significant treatment and behavioural obstacles to cope. Thus specialized institutions (residence, clinic, hospital) and interdisciplinary teams are needed to holistic deal with such patients. Always have in mind the interdisciplinary support which is needed by the caregivers who are under constant psychological and social pressure.

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<table>
<thead>
<tr>
<th>Year</th>
<th>Mild to moderate dementia</th>
<th>Positive practice overcorrection procedure (1 week protocol)**</th>
<th>Disciplinary enquiry (1 week protocol)**</th>
<th>SSRIs (3 months protocol)</th>
<th>Specialized bondage during bed time (1 month protocol)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1-5 per day 1-5 per week</td>
<td>1-5 per day 1-5 per week</td>
<td>1-5 per day 1-5 per week</td>
<td>1-5 per day 1-5 per week</td>
</tr>
<tr>
<td>2011</td>
<td>14</td>
<td>12 0</td>
<td>14 0</td>
<td>11 3</td>
<td>4 10</td>
</tr>
<tr>
<td>2012</td>
<td>5</td>
<td>4 1</td>
<td>5 0</td>
<td>3 2</td>
<td>1 4</td>
</tr>
<tr>
<td>2013</td>
<td>5</td>
<td>5 0</td>
<td>5 0</td>
<td>4 1</td>
<td>1 4</td>
</tr>
<tr>
<td>2014</td>
<td>6</td>
<td>6 0</td>
<td>5 1</td>
<td>4 2</td>
<td>2 4</td>
</tr>
<tr>
<td>2015</td>
<td>(first 6 months)</td>
<td>2 2</td>
<td>2 0</td>
<td>1 1</td>
<td>0 2</td>
</tr>
<tr>
<td>Total</td>
<td>32</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* MMSE score [45]: 10-24 points. GCT score [46]: 10-26 points.
** Possible bias: some medication was used.

<table>
<thead>
<tr>
<th>Year</th>
<th>Severe dementia</th>
<th>Positive practice overcorrection procedure (1 week protocol)**</th>
<th>Disciplinary enquiry (1 week protocol)**</th>
<th>SSRIs (3 months protocol)</th>
<th>Specialized bondage during bed time (1 month protocol)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>1-5 per day 1-5 per week</td>
<td>1-5 per day 1-5 per week</td>
<td>1-5 per day 1-5 per week</td>
<td>1-5 per day 1-5 per week</td>
</tr>
<tr>
<td>2011</td>
<td>3</td>
<td>3 0</td>
<td>3 0</td>
<td>2 1</td>
<td>0 3</td>
</tr>
<tr>
<td>2012</td>
<td>0</td>
<td>0 0</td>
<td>0 0</td>
<td>0 0</td>
<td>0 0</td>
</tr>
<tr>
<td>2013</td>
<td>1</td>
<td>1 0</td>
<td>1 0</td>
<td>1 0</td>
<td>0 1</td>
</tr>
<tr>
<td>2014</td>
<td>1</td>
<td>1 0</td>
<td>1 0</td>
<td>1 0</td>
<td>0 1</td>
</tr>
<tr>
<td>2015</td>
<td>(first 6 months)</td>
<td>0 0</td>
<td>0 0</td>
<td>0 0</td>
<td>0 0</td>
</tr>
<tr>
<td>Total</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* MMSE score [45]: 0-9 points. GCT score [46]: 0-9 points.
** Possible bias: some medication was used.
11. Discussion

Overcorrectional behaviour patterns (repetition, punishment, reward, occupational therapy, hygiene procedures, etc), are a well used modality for behaviour alternation in dementia patients (early to moderate stage mainly) [29].

Several pharmacologic treatment modalities exist to address the practices of coprophagia and scatologia in the demented elderly population. The treatment of coexisting psychiatric illness, relief from constipation and pruritis ani, and ensuring the maintenance of good oral hygiene have all been reported to be effective. Drugs such as selective serotonin reuptake inhibitors (SSRIs), antipsychotics, tricyclic antidepressants, and Aricept have resulted in improvement in some cases. As SSRIs are widely used among our patients, they could be easily selected as a proposed drug treatment to study changes in coprophilic behaviour [47].

For the specialized bondage restriction, with regard to definitions, the difference between restrictions of freedom and the deprivation of freedom is unclear. During 2012 the Hellenic Ministry of Health declared the "Restriction Ethics for Mental impairment Patients". These laws were fairly detailed but tend to be restricted to the compulsory detention of a person with a mental disorder in an institution, or establishment for a set period of time for treatment, and in the interests of their safety and/or that of other people (caregivers, relatives, medical personnel). A variety of terms are being used depending on the country which if translated might be involuntary or compulsory "detention" or "internment" or the restriction or deprivation of liberty or freedom of a patient. Apart from these laws, a clear definition of deprivation of freedom is often lacking, "The distinction between a deprivation of, and restriction upon, liberty is merely one of degree or intensity and not one of nature or substance". The use of restraint, particularly on frail, older people with dementia, is generally considered unethical or harmful and is rarely justifiable. However, there may be exceptional cases when this is not so and it could be considered lawful and/or ethically justifiable. To avoid confusion, it is preferable to attribute a neutral meaning to the terms "restraint" or "bondage" and then to consider whether or not its use is ethical. This means that a definition of restraint should preferably not include a reference to deliberate prevention or a deliberate intention to prevent or restrict freedom of movement. Theorists consider whether the nature of an act is right or wrong irrespective of the consequences. Something is believed to be good if it is consistent with moral rules and principles. Our team thinks that a specialized bondage (high quality, soft materials, individually shaped forms) is not an abuse, but when applied under the law protocol (acceptance, agreement from all parts), is rather a "protective" measure, frequently demanded, thus ethically applied [48-49].

Unfortunately only the specialized bondage was promising, a modality that usually rises concerns among theorists. The lack of standard observational methods and tools (protocols, batteries, tests, etc) could produce some BIAS by itself. More studies should be carried out, adding more drugs, or drug combinations for coprophilia recurrence to be investigated.

12. Conclusion

A paraphilic coprophilic (pica) dementia patient create health, treatment, coping, quality of live issues for both himself and the caregivers. Coprophilia in dementia is an understudied behaviour that needs further inquiry. Although the ultimate prize of a cure remains elusive, the confrontation should always include psychological and pharmacological modalities for treatment. Having a socially non tolerable behaviour those patients should always be treated with respect and patience, under holistic therapeutical protocols form the caregivers. After all empathy is their supreme need, a prelude towards a qualitative daily regime, a breakthrough in their troubled minds, a possible way of treatment.

Ethical Consideration

All innervations were applied under strict protocols, by using the Greek laws on ethics and guidelines. Thus, no ethical consideration are in place.

References


