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How Women in Search of Suitable Contraceptive Methods can Remedy the Lack of Counseling and Circumvent Untrustworthy Information Disseminated by Various Media

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Abstract

Background: The urgent need for appropriate counseling regarding contraceptive options is a well-known phenomenon in the clinical practice. Recent events show that this need has not yet been met. On the background of this evidence, new avenues are explored to enable women to remedy the lack of adequate counseling and circumvent untrustworthy information disseminated by various media.

Material and Method: Material used comprises publications in leading medical journals with the highest impact factors, publications by manufacturers and by the internationally most influential health agencies. This material is subjected to a methodological analysis which is guided by the bioethical principles of nil nocere and informed consent.

The Table below (Table 1) Displays this Synoptic Contraception Overview

Table1: Safety-Efficacy- Satisfaction (Convenience)-Cost Ranking (SESC-Ranking)

Results: The result	• \	Efficacy	Satisfaction [%	Cost & Specifications
of the analysis	in the sense of	Perfect-	women	
performed is a	"nil nocere")	Typical use	continuing after	
synoptically			one year]	
structured overview			Convenience	
of the currently				
available methods				
which are ranked				
primarily according				
to the parameter				
safety, but also				
according to efficacy,				
continuation of use,				
i.e., satisfaction,				
convenience, and				
cost.				
Method				
Symptothermal	High	0.4-24	?	No cost. Cervix palpated
(measure body			High	has soft consistency and
temperature and				is open.
observe cervical				
mucus)				
Ovulation (based on	High	3-24	?	No cost. Observe cervical
cervical mucus).			High	mucus ("spinnbarkeit"
				indicates fertile period).
TwoDay (based on	High	4-24	?	No cost. Fertile days to be
cervical mucus)			High	assumed when cervical
Fertility not to be				mucus is present (watch
assumed after 2				color and consistency).

	I	I		
consecutive "dry"				
days (or absence of				
secretion).				
Standard Days	High	5-24	?	No cost. Fertile period
Method (SDM) -			High	usually days 8-19 of each
based on calendar (to				26-32 day cycle.
track fertile period).				
Basal Body	High	1-25	?	No cost. Does not predict
Temperature (BBT)			High	end of fertile period, but
Fertile period has			8	conception is unlikely
passed when body				from the 4th day
temperature has risen				following rise of
(by $0.2\text{-}0.5^{\circ}\text{C}$) and				temperature (until next
remained such for 3				period).
				period).
days.	TT' 1	0.25	0	N. Cl. I. I. I.
Calendar (rhythm)	High	9-25	?	No cost. Check calendar
method Monitor			High	to find shortest cycle and
menstrual cycle for				substract 18: this is the
at least 6 months by				estimated FIRST fertile
using calendar.				day. Find longest cycle
				and substract 11: this is
				the estimated LAST last
				fertile day. Caution with
				drugs such as NSAID,
				antibiotics, anxiolytics,
				anti-depressants, and
				others (consult physician).
Withdrawal (coitus	High High	4-22 ?	46%	Semen must be
INTERRUPTUS)	Tilgii Tilgii	T-22:	High	discharged outside the
Lactational			riigii	vagina. Effective in
Amenorrhea (LAM)				preventing ovulation as
Requires				long as monthly bleeding
breastfeeding day				has not yet resumed.
and night of infant				
less than 6 months				
old.				
Male condoms Latex	Moderate	2-18/43%	43%	Low cost. Protects against
allergy possible.			High	sexually transmitted
				diseases (STD) including
				HIV.
Implant (Small,	Moderate Incorrect	0.05-0.05	84%	High cost. Has to be
flexible rod or	placement is		High	implanted by clinician.
capsule placed under	possible, device can			p.m.ca of officials.
the skin of the upper	break or travel to			
arm; contains	pulmonary artery.			
· · · · · · · · · · · · · · · · · · ·	Irregular vaginal			
progestogen				
hormone only).	bleedings common.	0.2.0.2	000/	III.i.
Mirena (LNG)	Moderate Pelvic	0.2-0.2	80%	High cost. Prevents
Intrauterine device	inflammatory		Moderate	contact between sperm
(IUD) (T-shaped	disease (PID)			and egg by thickening
plastic device	common, ascending			cervical mucus.
inserted into the	infection and			Amenorrhea common.
uterus; releases	expulsion possible.			
continuously small				
amounts of				
levonorgestrel).				
ParaGard (copper	Moderate	0.6-0.8	78%	High cost. Copper
IUD)			Moderate	component damages
			1.10001410	sperms.
Depo-Provera	Moderate	0.2-6	56%	High cost.
Deportovera	1710001010	0.2 0	Moderate	ingii cost.
i .	1	I	MIOUELALE	1

Combined oral	Moderate	0.3-9	67%	Moderate cost. Contains
contraceptives			Moderate	estrogen and progestogen.
(COCs)= "the pill"	Madagata	1.2(10)	(70)	Madaga Thirt
Progestogen-only pill (POP) or "minipill"	Moderate	1-3(10)	67% Moderate	Moderate cost. Thickens cervical mucus and
(POP) or minipin			Moderate	prevents ovulation.
Evra notah	Moderate	0.3-9	67%	High cost.
Evra patch	Wioderate	0.3-9	Moderate	High cost.
NuvaRing	Moderate	0.3-9	67%	High cost
Combined	Moderate	1-8(?)	?	High cost. Continuously
contraceptive patch	Wioderate	1-0(1)	Low	releases progestin and an
and combined			Low	estrogen directly through
contraceptive vaginal				the skin (patch) or from
ring (CVR)				the ring. Pharmacokinetic
ing (C vit)				profile similar to COCs.
				(Research on efficacy
				limited).
Monthly injectables	Moderate Irregular	1-3	?	High cost. Injected
or combined	vaginal bleeding		Low	monthly into muscle.
injectable				
contraceptives (CIC)				
Progestogen-only	Moderate Irregular	1-3		High cost. Injected into
injectables	vaginal bleeding;		?	muscle or under skin
	delayed return to		Low	every 2 to 3 months
	fertility after use.			(depending on product)
Diaphragm Must be	Moderate	6-12	57%	High cost.
used for each coitus.			Low	
Emergency	Moderate - Low	1-15	?	Moderate cost. Instead of
Contraception (EC)			High	pill IUD (copper or
Pills ulipristal acetate				levonorgestrel) can be
30 mg or				inserted.
levonorgestrel 1.5				
mg should be taken				
twice to prevent pregnancy up to 5				
days subsequent to				
coitus.				
	Moderate Adverse	<1 (after 3-	100%	High cost. Permanent
(vasectomy)	events and risks	months	High	contraception due to
(asserbing)	associated with	semen	12.5	cutting vas deferens tubes
	surgery.	evaluation).		(which transport sperm
		2-3		from testicles).
		(without		,
		semen		
		evaluation).		
Female sterilization	Low Adverse	0.5-0.5	100%	High cost. Surgery
(tubal ligation)	events and risks		High	required.
Permanent	asscoiated with			
contraception (due to	surgery.			
blocking or cutting				
fallopian tubes).				D
Sterilization through	Very low	?	?	Device has been
creation of scar			Low	withdrawn from the
tissue (ESSURE)				market in several
				countries, including the
Smanaa	Moderata	20.24	260/	U.S.
Sponge	Moderate	20-24 (percus	36% Moderate	Moderate cost. Must be used for each coitus.
		(parous women) 9-	MIOUCIALE	used for each collus.
		12 women) 9-		
		(nulliparous		
	1	(mumparous	<u> </u>	1

		women)		
Spermicides	Moderate	18-28	42%	Moderate cost.
			High	

1. DISCUSSION

In 2018, a spokesman of the FDA openly admitted the existence of a problem that has been plaguing the clinical practice for many years, namely lack of adequate counseling for women who are in search of the personally must suitable method for family planning, birth control or contraception. In conjunction with a device for permanent contraception which had caused severe harm to thousands of women worldwide it has been noted that women did not receive adequate counseling prior to the implementation of a contraceptive method. This lack was the more surprising as the FDA had already earlier restricted implantation of the device to those physicians who had signed a document attesting that they had provided counseling for the women receiving the device: "Despite previous efforts to alert women to the potential complications of Essure, we know that some patients still aren't receiving this important information,' said FDA Commissioner Scott Gottlieb, in a statement. 'That is simply unacceptable."[1] In criticizing a serious lack of counseling, the FDA admits that patients' right of self-decision according to the principle of informed consent had been seriously violated. [2] The problem of denying the right of women to self-decision is unfortunately not a recent phenomenon, as can be seen from a study focusing on self-decision in conjunction with contraceptive methods published in Germany. [3]

The fatal consequences of the lack of counseling have been reported by news media around the world. In the US, the press drew attention to adverse events caused by the device and the ensuing legal ramifications: "It has been the subject of an estimated 16,000 lawsuits or claims filed by women who reported severe injuries, including perforation of the uterus and the fallopian tubes. Several deaths, including of a few infants, have also been attributed to the device or to complications from it. "[1]

In Australia, the Therapeutic Goods Administration (TGA) had issued a hazard alert earlier, and the company apparently felt compelled to recall its product already in 2017. According to Australian media, this alert was prompted by reports about severe harm experienced by the users: "The reports have

included changes in menstrual bleeding, unintended pregnancy, chronic pain, perforation, migration of the device, and allergy/ hypersensitivity or immune-type reactions. Surgery, including hysterectomy, was required in some instances to remove the device,' the TGA said. "[4]

What came as a surprise to consumers in the US was the FDA's emphasis on the safety of the device: "Bayer announced that they will no longer sell or distribute Essure in the U.S. after December 31, 2018, for business reasons. This information does not change the FDA's understanding of the safety and effectiveness of the device . . . "[1] As can be seen, the FDA insists on the safety of the device despite the harm it had caused to thousands or perhaps millions of women worldwide. In doing so, the FDA clearly neglects the well established medical principle of nil nocere which stipulates treatment of the patient without causing harm to her/his heath. The FDA's emphasis on the safety of a device that has caused serious harm brings to light also a problem that is frequently encountered in the scientific literature, namely the disregard for the parameter safety. By arguing that "the benefits outweigh the risks," the problem of safety is frequently belittled. [5] As a consequence, women recognize that they cannot count on information even if it emanates most influential organization. from the Unfortunately unreliable information disseminated by influential organization is not the only problem. An additional problem is the information provided by manufacturers on their products, a problem recently elucidated in the area of pharmaceutico-vigilance. [6] Thus in conjunction with the harmful device for permanent contraception, the National Center for Health Research criticized information provided by the manufacturer as being too long, technical and confusing: "How many people do you know who would carefully read a 22-page document before signing it?' said Diana Zuckerman, president of the National Center for Health Research, a consumer advocacy group. 'In addition to being much too long and technical, the information provided will be confusing to many consumers."[1]

In addition to flawed information furnished my manufacturers, there is an additional problem

for women in search or reliable information. namely discordant statements in the scientific literature. It is particularly deplorable that it is just precisely the most effective methods of contraception, [7] namely Long-Acting Reversible contraception (LARC), on for which contradictory statements are made in the most prestigious scientific journals. One of the most striking examples of contradictory claims is evidence-based critique of traditional devices voiced by Belgian authors on the one hand, [8] and total disregard of this critique by US authors on the other.[9]

As early as 2013 Belgian authors described a new device, designated "Gynefix," which was designed to remedy the deficits of the hitherto available devices.[10] The critique of the "conventional" devices, ie, ParaGard and Mirena, approved for and distributed on the US market seems convincing as it is the result of evidence-based research on measurements of the uterine cavity and on the inappropriate dimensions of the conventional devices.[8] Interestingly enough, this critique has been neglected by the authors of one of the most pertinent publications on Long-Acting Reversible Contraception (LARC), which appeared in 2017 in one of the world's leading medical journals.[9] These authors hail LARC justifiably as the most effective methods of contraception, but ignore the evidence-based findings described in the 2013 publication. there is no discussion of the shortcomings attributed to conventional LARCs; GyneFix is not even mentioned as one of the devices belonging to LARC; and references regarding the publications on GyneFix are untraceable. Instead, the authors of the 2017 publication hail precisely those LARC devices that have been considered inappropriate in the publication of 2013. LARCs are recommended not only by virtue of their high effectiveness and safety but also owing to their noteworthy rate of continuation. Without paying heed to the critique of the Belgian authors regarding the harmful effects of "conventional" devices, the US authors conclude: "All adolescents and adult should be informed about availability of LARC methods, given their extremely high effectiveness, safety, and high rate of continuation."[9, p.467]

In the face of such discordant findings women will be reluctant to rely on recommendations

made in the scientific literature. Indeed educated consumers are keenly aware of the problem of conflicts of interest which is increasingly plaguing scholarly publications.[9] Instead of impartial assessments the reader of these publications finds unverifiable statements endorsing the interests of the pharmaceutical company from which the authors receive grants, stipends, scholarships, and similar financial incentives. It should be noted in this context that authors publishing in Japanese journals undergo a more serious scrutiny concerning conflicting interests than those publishing in US-, European-, or Australasian journals.

2. RESULTS

As the above discussion shows, counseling for women in search of suitable methods for birth control and contraception is urgently needed especially in light of new pills and devices developed by pharmaceutical companies and available for the consumer on the market in most countries around the globe. Counseling should focus on the numerous adverse events, potential complications, and risks associated with contraceptive products. As past experience shows, serious consequences of these products have been brought to light by research in pharmacovigilance. Among these consequences are leukemia in children of mothers who have taken oral contraceptive pills,[11] depression and even suicidal action in association with pills for contraception,[12] certain possibility of glaucoma causally related to hormonal contraception,[13] and a heightened risk of breast cancer for women taking oral contraceptives.[14] In addition a serious impact on the quality of life owing to oral contraceptive pills has been described.[15] In view of such detrimental consequences of uncritical use of contraceptive methods, physicians challenged to pay heightened attention to appropriate counseling despite the pressure of economic maxims emphasizing such parameters as cost efficiency.[16] To facilitate their counseling obligations, suitable instruments such as the Synoptic Contraceptive Overview based on the most reliable sources, namely Contraceptive Failure Table of 2011,[17] the WHO list of 2016,[18] and the FDA survey of 2013[19] -- will prove helpful. As this instrument can be easily used by women themselves, future common pursuits to identify the personally most suitable method of contraception should be more satisfying for

both, physicians and women, and reduce the danger of suffering harm due to the employment of inappropriate products for birth control and contraception.

3. CONCLUSION AND IMPLICATIONS

As the above analysis shows, women in search of the personally most suitable contraceptive method are frequently left out in the cold. They have to cope with the problem of how to obtain information that is not only accurate and complete but also trustworthy and reliable. In order to enable women to remedy the lack of counseling. autodidactic strategies recommended based on such instruments as the Synoptic Contraception Overview Utilization of this table not only assists women in identifying the personally most suitable method but spares also physicians the timeconsuming efforts of accessing pertinent information by means of scholarly publications or manufacturers' product descriptions.

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