CONFIDENTIAL/CONFIDENCIAL PLEASE COMPLETE FULLY/POR FAVOR LLENE TODOS LOD ESPACIOS PLEASE PRINT/ESXRIBA EN LETRAS MAYUSCALAS

CHART NO.

	☐ MR. ☐ MRS. ☐ MISS	LAST NAME OF PATIENT 성명		FIRST	NAME	MIDDL	E NAME	☐ MA	GLE/독신 RRIED/기혼 ORCED/이혼 OOWED/사별	TELEPHONE 전화	
1	HOME ADI 주소	HOME ADDRESS OF PATIENT CITY ZIP 주소									
	SOCIAL SE 쏘셜시큐리	ECURITY NO. 타번호	DRIVER'S LICENSE NO. 운전면허번호		OCCUPATION OF 직업	PATIENT			BIRTHDATE 생년월일		AGE 나이
	RESPONSIE 배우자	BLE PARTY OR SPOUSE		RELATIONS 환자와의 관	I SHIP TO PATIENT 계		SOCIAL SE 쏘셜시큐리	ECURITY NO 티번호		RTHDATE 년월일	1
2	ADDRESS 주소				CITY	Y	ZIF	ি TEI	LEPHONE 라		
	EMPLOYER 직장		ADDRESS 주소			CITY	Y	ZIF		LEPHONE AT WORK 상전화	<
	당신 또는 당	당신 가족이 덴탈보험에 가입:	FAMILY PARTICIPATE IN A DEN 하셨습니까?	ITAL PLAN?	YES NO	EMPLOY 직장이름					
	WHICH PLA 무슨보험입니	N? - 까? 	GROUP NO			DATE EN 취업일자	MPLOYED _				
3		MEMBERS SOCIAL SECURI 셜시큐리티번호	TY NUMBER			LOCAL N 조합번호	NUMBER —		NO. OF I 가족수	DEPENDANTS	
	DRIVER'S LICENSE NO. 운전면허번호				RELATIONSHIP TO PATIENT 환자와의 관계						
		SINCE YOUR LAST VISIT 가신게 언제입니까?				REFERI 소개자	RED BY				
4		ARE YOU HERE TODAY? CHECKUP 선택 스킨션 기가? 전환									
		TOOTHACHE 치동				E-MAIL/이메일					
			ESTIMATE 경비견적								
,	ASSIGN	MENT AND RELE	EASE								
I	, the under	signed, have insurance	with								
á	and assign o	directly to Dr. San	Diego Dental (Group	Name	of Insura all her	ance Comp	any(ies)	se navable to	me for services	
and assign directly to Dr. San Diego Dental Group all benefits, if any otherwise payable to me for services rendered. I understand that I am financially responsible for all charges whether or not paid by insurance. I hereby authorize the doctor to release all information necessary to secure the payment of benefits. I authorise the use of this signature on all my insurance submissions whether manual or electronic.											
		Date					Signature	•			
N	/INOR/0	CHILD CONSENT	-								
I	, being the	parent or guardian of _		A/-		,				do hereby red	quest
	Name of minor/child and authorize the dental staff to perform necessary dental services for my child, including but not limited to X-rays, and administration of anesthetics which are deemed advisable by the doctor, whether or not I am present at the actual appointment when the treatment is rendered.										
 Date						Signature of Insured / Guardian					
F	INANCI	AL AGREEMENT									
			at the time of treatment, ui tment of a minor/child. I ac								all
	-	Date				Signature	e of Insured	/ Guardiar	1		

MEDICAL HISTORY OF PATIENT

병력란을 상세히 기입해 주십시오

1	. Your current physical health is: 현재 건강상태:	Good	Fair	Poor	
2	. Do you smoke or use tobacco in any other form? 흡연 중이십니까?	Yes	□No		
3	. Are you taking any prescription / over-the-counter or her 드시는 약이 있으십니까? * Which ones / 무엇입니까?	oal supplem	ental drugs?		☐Yes ☐No
4	. Have you ever taken Fosamax, or any other bisphophonate 포사맥스나 골다공증 약품을 드신적이 있으십니까?	?	∐Yes	□No	
5	. Have you ever taken Phen-Fen? 펜테르민/휀플루라민을 드신적이 있으십니까?	Yes	□No		
6	. Are you under a physician's care now? 치료 중이십니까?	∐Yes	□No		
	If so, please give reason for treatment: 무슨 치료를 받으십니까?				
	Physician's Name: 의사이름:			Telephone: 전화번호:	
	or Women :				
,	. Are you using a prescribed method of birth control? 처방받은 경구 피임약을 복용 중이십니까?	∐Yes _	∐No _		
8	. Are you pregnant? 임신 중이십니까? Week (몇주) #:	Yes	□No		
Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	N Arthritis 관절염 N Artificial Bones / Joints / Valves Asthma 천식 N Blood Transfusion 수혈 Cancer / Chemotherapy 암 Colitis 대장염 N Colitis 대장염 N Diabetes 당뇨병 N Difficulty Breathing 호흡곤란 Emphysema 폐기종 Epilepsy 뇌전증 N Epilepsy 뇌전증 N Frequent Headaches 두통 Glaucoma 녹대장 N Hay Fever 고초열 N Hay Fever 고초열 N Heart Attack 심장마비 Heart Murmur 심잡음 Heart Surgery 심장수술	· 용 인 공뼈] 장병			Herpes / Fever Blisters 포진 High Blood Pressure 고혈압 HIV+ / AIDS 에이즈 Hospitalized for Any Reason 입원 Kidney Problems 콩팥질환 Liver Disease 간장질환 Low Blood Pressure 저혈압 Lupus 낭창 Mitral Valve Prolapse 승모판 탈출증 Osteoporosis / Paget's Disease 골다공증 Pacemaker 인공 심장박동기 Psychiatric Problems 정신병 Radiation Treatment 방사선 요법 Rheumatic / Scarlet Fever 류마치성열 Seizures 뇌졸중 Shingles 대상포진 Sickle Cell Disease/ Traits 겸상 적혈구성 빈혈 Sinus Problems 코의 염증 Stroke 뇌졸중 Thyroid Problems 갑상선 Tuberculosis (TB) 결핵 Ulcers 궤양 Venereal Disease 성병
YYY	0. Are you allergic to any of the following? / 이 중에서 알려		으십니까? Y Y Y Y Y	N	Latex 라텍스 Penicillin 페니실린 Tetracycline 테트라사이클린 Other 기타





Tel: 858 279 1004 / Fax: 858 268 1004 7825 Engineer Rd. Ste 111 San Diego, CA 92111 www.sddentalgroup.com

PATIENT GENERAL CONSENT FOR TREATMENT

Patients Name	3	DA	TE		
WORK TO BE DONE I understand that I am having the following	ng work done: Fillings	, Bridge, Crown	, Extractions	_, Root Canal	_, Other (Initials
2. Drugs, Medications, ar I have been informed and understand the tissue, pain, itching, vomiting, and/or and intravenous and intramuscular injections coordination which can be increased by at lease 12 hours or until fully recovered care. I understand that failure to take me pain and potential resistance to effective	nat antibiotics, analgesics a aphylactic shock(severe all , injury to and stiffening of the use of alcohol or other from the effects of the ane dications prescribed for me	ergic reaction)and the of the neck and facial mush drugs .I understand an esthetic, medication and e in the manner prescri	can cause pain, thr sclesThey may c d fully agree not to I drugs that may ha	combophlebitis (int ause drowsiness a operate any vehi ave been given to	redness and swelling of flammation of a vein)from and lack of awareness and icle or hazardous device for me in the office for my
3. Change in Treatment F I understand that during treatment it may discovered during examination, the most make any/all changes and additions as r	be necessary to change of toommon being root canal	or add procedures beca therapy following routi	use of conditions f	ound while workin edures. I give my	g on the teeth that were no permission to the dentist to (Initials)
4. Removal of Teeth Alternative to removal have been explain following teeth the infection, if present, and it may be not pain, swelling, spread of infection, dry so period of time (days or months), or fractuding or following treatment, the cost of	and any others necessary ecessary to have further tre ocket, loss of feeling in my ured jaw. I understand I ma	for reasons in paragrap eatment. I understand the teeth, lips, tongue and my need further treatment	oh #3. I understar ne risks involved in surrounding tissue	nd removing teeth having teeth remo (Paresthesia) tha	does not always remove all oved, some of which are t can last for an indefinite
5. Crowns, Bridges, and a understand that sometimes it is not postemporary crowns, which may come off realize the final opportunity to make characteristics.	sible to match the color of easily and that I must be ca nges in my new crown, brid	areful to ensure that the	ev are kept on until	the permanent cr	owns are delivered !
6. Dentures, Complete o I realize that full or partial dentures are a explained to me, including looseness, so shape, fit, size, placement, and color) with months after initial placement. The cost	artificial, constructed of pla preness, and possible brea Il be the "teeth in wax" try-	kage. I realize the final in visit. I understand th	opportunity to mak at most dentures n	change in my	se appliances have been new dentures (including proximately three to tweleve
7. Endodontic Treatment I realize there is no guarantee that root of metal objects are comented in the tooth	canal treatment will save m	y tooth, and that comp	ications can occur	from the treatmer	(Initials) nt, and that occasionally
metal objects are cemented in the tooth occasionally additional surgical procedu	res may be necessary folic	, which does not neces wing root canal treatm	samy affect the sur ent (apicoectomy)	ccess of the treatn	nent. I understand that



8. Periodontal Loss (Tissue & Bone) I understand that I have a serious condition, causing gum and bone infection plans have been explained to me, including gum surgery, replacements and have a future adverse effect on my periodontal condition.;	on or loss and that it can lead to the loss of my teeth. Alternative treatment d/or extractions. I understand that undertaking any dental procedures may
9. Hugging Blanket and Mouth Prop	(initials)
Sometimes kids need to be treated with the aid of a "hugging blanket" to ke instruments. Young children find it difficult to keep their mouths open so we Dr. permission to use a "hugging blanket' and/or mouth prop on my child d	May use a mouth prop to reduce risk from a sudden mouth closure. Laive the
other dental materials don't get whiten by the bleaching material. Gum and 11. Orthodontics I understand that orthodontic treatment requires monthly visits for approximate appliances (rubber band, headgear, palatal, removable) as instructed by the such as root resorption, gum recession, mobility and sensitivity of teeth due 12. Implant Surgery and Prosthesis I have been informed about alternative treatment to dental implants, such understand the risks involved in placing dental implants, some of which are loss of feeling in my teeth, lips, tongue and surrounding tissue (paresthesis may need further treatment by a specialist if complications arise during following the dental treatment we assurance has been made by anyone regarding the dental treatment to	as dentures and fixed partial denture (bridges). As with any oral surgery, I e pain, swelling, bleeding, hematoma, bruising, spread of infections, dry socket, a) that can last for an indefinite period of time or fractured jaw. I understand I lowing treatment, the cost of which Is my responsibility. (initials)
torm and ask questions, my questions have been answered to my satisfact	ction. I consent to the proposed treatment.
Signature of Patient Signature of Parent/Guardian if patient is a minor	
ognotion of the order of the patient is a filling	Date
HIPPA/ NOTICE OF PRIVA ACKNOWLEDGEMENT By signing this from, I acknowledge receipt of the Notice of Privacy Pracabout how we may use and disclose your protected health information. VI acknowledge receipt of the Notice of Privacy Practices of San Diego Co	Citices of SD Dental Group. Our Notice of Privacy Practices provides information
Diament	Pate



의사-환자 중재 합의서

- [조항1] 중재합의: 본 합의서의 조건 아래 제공된 의료 서비스가 불필요 또는 불법이거나 부적합, 부주의, 무능력하다고 판단되는 의료 과실에 관한 모든 논쟁은 캘리포니아주에서 합법성을 재심 중인 중재 절차의 경우를 제외하고는 법적 소송 또는 사법처리 대신 캘리포니아주에서 재정한 중재 요구에 따라 해결됩니다.
- [조항2] 고소중재의 당위성: 본 합의서는 의사가 제공한 치료나 서비스와 관련, 직접 또는 간접적으로 발생한 모든 고소사건이 환자 및 의사/의료기관 양측에 법적 구속력을 가지게 된다는 취지 아래 작성되었습니다. 여기에는 환자의 배우자 또는 상속자도 포함됩니다. 의사 및 의사의 동업자, 조업자, 협회, 기업 또는 협력업체 고용인, 대리인 그리고 이들의 재산에 대한 소규모 법정 소송의 사법 제한을 초과하는 금전상의 피해에 대한 모든 소송은 반드시 중재되어야 합니다. 여기에는 제한이 없으며, 배우자권, 부당한 사망, 정신적 고통, 응징적 피해도 포함됩니다. 의사가 환자에게 의료비 징수를 위한 법적 절차를 제기했더라도 의료과실에 대한 환자의 고소권은 유효합니다.
- [조항3] 절차 및 적용법: 중재요청은 모든 관련 당사자들에게 반드시 서면 통보 되어야합니다. 각 당사자의 30 일 이내에 중재자 (당사자측 중재자)를 선임해야 하며, 당사자측 중재자는 상대방에게서 중립적 중재자를 요청하는 통보를 받은 후 30 일 이내에 제 3 중재자 (중립적 중재자)를 선임합니다. 조정에 참가하는 각 당사자는 상기 비용과 중재자 선임비용중 해당되는 액수는 물론 중재자에 의해 발생되거나 승인된 기타 조정비율을 지불해야 합니다. 그러나 이 비용에는 상담비, 증인비 또는 당사자에 이익을 위해 발생된 기타 비용은 포함되지 않습니다. 해당의료 기관과 환자 양측은 중재자가 본 합의서에 따라 중재자로서 대행할 때에는 배심원 출석의무로부터 면제된다는 사실에 동의합니다. 이러한 면제권은 다른 제정법 또는 일반법을 보완할 뿐 대체하지는 않습니다. 당사자는 중재자에게 서면 요청으로 책임 및 피해와 관련된 쟁점들을 독립적으로 중재자판에 회부할 수 있는 권리를 가집니다. 당사자 양측은 본 중재 재판에 있어서 다른 재판에 체류중인 인물 또는 기관의 추가 개입 및 공동 소송에 동의하는 바입니다. 이러한 개입 및 공동소송이 발생하는 경우 상기된 추가 인물 또느 ㄴ기관에 대한 이전의 법적 소송은 중재 재판 이후로 보류됩니다. 당사자 양측은 본 저정 동의서와 관련된 논쟁에 캘리포니아주 의료법 규정이 적용된다는 사실에 동의합니다. 여기에는 민사소송법 340.5 및 667.7, 민법 3331.1 및 3333.2 항이 포함되거나 국한되지는 않습니다. 당사자는 중재자에게 민사소송법에 준하여 즉석판결을 신성할 수 있습니다. 발표요구수속은 민사 소송법 1283.05 조항에 따라 수행되지만 증인은 중재자의 사전승입 없이 수행할 수 있습니다.
- [조항4] 일반규정: 동일한 사건, 화해 또는 관련 정황에 기초한 모든-소송은 동일한 소송 절차에서 조정됩니다. 다음과 같은 경우 소송은 보류되거나 영구히 금지됩니다. (1) 민법에 회부된 소송이 통보를 받은 날짜를 기준으로 캘리포니아주 제한법정 적용에 의해 금지되는 경우, 또는 (2) 소송을 제기한 측에서 본 계약서에 명시된 절차에 따라 적절하게 중재절차에 임하지 않는 경우 중재자는 문서에 명확히 제시되지 않은 안건과 관련, 캘리포니아주 민사소송법 중재관련 조항을 준수해야 합니다.
- [조항5] 소송취하: 본 계약서는 서명한 후 30 일 이내에 의사에게 서면 통지를 전달하므로서 취소될 수 있습니다. 본 계약서와 취지는 조건 및 시간을 불문한 모든 의료행위에 적용됩니다.
- [조항6] 소급효력: 환자가 본 계약서에 서명된 날짜이전에 받은 의료행위에 대해서 본 계약서의 규정을 적용할 의도이면 (응급처치 및 기타 포함) 아래 란에 영문 이니셜을 서명하십시오.

의료행위를 처음받은 날짜로부터 유효	
	환자 또는 환자 대리인 이니셜

본 중재 합의서의 규정 중 무효하거나 실행할 수 없는 점이 있더라도 나머지 조항에는 아무런 영향을 주지 않으며, 합의서의 다른 조항은 무효한 조항과 상관없이 계속 유효합니다. 본인은 본 조정 동의서의 복사본을 소지할 권리가 있음을 숙지하고 있습니다. 다음에 서명하므로 복사본을 수취했음을 확인하는 바 입니다.

주의: 환자는 본 계약서에 서명하므로서 의료사고와 관련된 모든 쟁점에 관한 결정권을 중재자에게 위임한다는 것에 동의합니다. 또한 배심원 또는 법원 소송에 관한 권리를 포기하게 됩니다. 본 계약서에 조항 1을 참조하십시오.

서명:				서명:		
	의사 또는 공증대리인 서명	(날짜)			환자 또는 환자 대리인 서명	(날짜)
	서명:(정서)					
0	니사/의료기관 또는 협회 이름 (정서 또는 날	±인)	-		(대리인의 경우 이름을 정서하고 혹	환자와의 관계명시)

환자에게는 서명된 본 문서의 복사본이 수여되고, 원본은 환자의 의료 기록과 함께 보관됩니다.

샌디에고종합치과

The Dental Board of California

Dental Materials Fact Sheet

Supplied by the Board on October 17, 2001

As required by Chapter 801, Statues of 1992, the Dental Board of California has prepared this fact sheet to summarize information on the most frequently used restorative dental materials. Information on this fact sheet is intended to encourage discussion between the patient and dentist regarding the selection of dental materials best suited for the patient's dental needs. It is not intended to be a complete guide to dental materials science.

The most frequently used materials in restorative dentistry are amalgam, composite resin, glass ionomer cement, resin-ionomer cement, porcelain (ceramic), porcelain (fused-to-metal), gold alloys (noble), and nickel or cobalt-chrome (base-metal) alloys. Each material has its own advantages and disadvantages, benefits and risks. These and other relevant factors are compared in the attached matrix titled, "Comparisons of Restorative Dental Materials." A "glossary of Terms" is also attached to assist the reader in understanding the terms used.

The statements made are supported by relevant, credible dental research published mainly between 1993-2001. In some cases, where contemporary research is sparse, we have indicated our best perceptions based upon information that predates 1993.

The reader should be aware that the outcome of dental treatment or durability of a restoration is not solely a function of the material from which the restoration was made. The durability of any restoration is influenced by the dentist's technique when placing the restoration, the ancillary materials used in the procedure, and the patient's cooperation during the procedure. Following restoration of the teeth, the longevity of the restoration will be strongly influenced by the patient's compliance with dental hygiene and home care, their diet and chewing habits.

Both the public and the dental profession are concerned about the safety of dental treatment and any potential health risks that might be associated with the materials used to restore the teeth. All materials commonly used (and listed in this fact

sheet) have been shown-through laboratory and clinical research as well as through extensive clinical use – to be safe and effective for the general population. The presence of these materials in the teeth does not cause adverse health problems for the majority of the population. There exist a diversity of various scientific opinions regarding the safety of mercury dental amalgams. The research literature in peer-reviewed scientific journals suggests that otherwise health women, children, and diabetics are not at increased risk for exposure to mercury from dental amalgams. Although there are various opinions with regard to mercury risk in pregnancy, diabetes, and children, these opinions are not scientifically conclusive and therefore the dentist the dentist may want to discuss these opinions are not scientifically conclusive and therefore the dentist may want to discuss these opinions with their patients. There is no research evidence that suggests pregnant women, diabetics and children are at increased health risk from dental amalgam fillings in their mouth. A recent study reported in the JADA factors in a reduced tolerance (1/50th of the WHO safe limit) for exposure in calculating the amount of mercury that might be taken in from dental fillings. This level falls below the established safe limits for exposure to a low concentration of mercury or any other released component from a dental restorative material. Thus, while these sub-populations may be perceived to be at increased health risk from exposure to dental restorative materials, the scientific evidence does not support that claim. However, ether are individuals who may be susceptible to sensitivity, allergic or adverse reactions to selected materials. As with all dental materials, the risks and benefits should be discussed with the patient, especially with those in susceptible populations.

There are differences between dental materials and the individual elements or components that compose these materials. For example, dental amalgam filling material is composed mainly of mercury (43-54%) and varying percentages of silver, tin, and copper (46-57%). It should be noted that elemental mercury is listed on the Proposition 65 list of known toxins and carcinogens. Like all materials in our environment, each of these elements by themselves is toxic at some level of concentration if they are taken into the body. When they are mixed together, they react chemically to form a crystalline metal alloy. Small amounts of free mercury may be released from amalgam fillings over time and can be detected in bodily fluids and expired air. The important question is whether any free mercury is present in sufficient levels to pose a health risk. Toxicity of any substance is related to dose, and doses of mercury or any other element that may be released from

Composit -	Amalaam	Composite Desir	Chariananar	Dooin innover
Comparative Factors	Amalgam	Composite Resin (direct and indirect Restorations)	Glassionomer cement	Resin-ionomer cement
General Description	Self-hardening mixture in varying percentages of a liquid mercury and silver-tin alloy powder	Mixture or powdered glass and plastic resin, self- hardening or hardened by exposure to blue light	Self-hardening mixture of glass and organic acid	Mixture of glass resin polymer and organic acid self hardening by exposure
Principle Users	Filings: sometimes for replacing portions of broken teeth	Filings, inlays veneers, partial and complete crowns, sometimes for replacing portions of broken teeth	Small filings cementing metal & porcelain/metal crown, inlays	Small fillings cementing metal, porcelain/metal crowns, liners
Resistance to Further Decay	High; self-sealing characteristic helps resist recurrent decay but recurrent decay around amalgam is difficult to find in early stage	Moderate, recurrent decay is easily detected in early stages	Low-moderate some resistance to decay may be imparted through fluoride release	Low-moderate resistance to decay may be imparted through fluoride release
Estimated Durability (Permanent teeth)	Durable	Strong, durable	Non-stress bearing crown cement	Non-stress bearing crown cement
Relative Amount of Tooth Preserved	Fair, requires removal of healthy tooth to be mechanically retained; no achesive bond of amalgam to the tooth	Excellent, bonds adhesively to healthy enamel and dentin	Excellent, bonds adhesively to healthy enamel and dentin	Excellent, bond adhesively to the enamel and dentin
Resistance to Surface Wear	Lowsimilarto dental enamel; brittle metal	May wear slightly faster than dental enamel	Poor in stress bearing applications. Fall in non- stress bearing applications	Poor in stress bearing applications. Go non- stress bearing application
Resistance to Fracture	Amalgam may fracture under stree; tooth around filling may fracture before the amalgam does	Good resistance to fracture	Brittle; low resistance to fracture but not recommended for stress-bearing restorations	Tougher than glass- ionomer. Recommended to stress bearing restoration
Resistance to Leakage	Good; self-sealing by surface corrosion; margins may chip over times	Goodif bonded to enamel; may showleakage over time when bonded to dentin; does not commodes	Moderate, tends to crack over time	Good, bonded to resin, and dentinal post-insert expansion may be seal the margins
Resistance to Occlusal Stress	High; but lack of achesion may weaken the remaining tooth	Goodto excellent depending upon product used	Poor, not recommended for stress-bearing restorations	Moderate, not recommended to restore biling surface of adults, may be used for short-term primary teeth restoration
Toxicity	Generalysafe; corasional allergic reactions to metal components. However, amalgams contain mercury. Mercury in its elemental form betoxic and as such is listed on proo 65	Concerns about trace chemical releases are not supported by research studies. Safe; no known toxicity documented. Contains some compounds listed on prop 65.	Noknown incompatibilities safe; no known toxicity documented	Noknown incompatibilities safe; no known toxicity documented
Allergic or Adverse Readions	Rare; recommend that dentist evaluate patient to rule out metal allergies	No documentation for allergic reactions was found	No documentation for allergic readions was found; progressive roughening of the surface may predispose to plaque accumulation and periodontal disease	Noknowndocumented allergic readfors. Surface may roughen overtime. predspose to plaque accumulation and periodontal disease
Susceptibility To Post- Operative Sensitivity	Minimat high thermal conductivity may promote temporary sensitivity to hot & codd; contact with other metals may cause occasional & transient galvanic response	Moderate; material is sensitive to dentists technique; material shrinks sightly when hardened, and a poor seal may lead to baderial leakage, recurrent decay and tooth hypersensitivity	Low, material seats well and does not initate pulp	Low, material seats well and does not initiate pulp
Esthetics (Appearance)	Very poor. Not tooth colored; initially silver- gray gets darker becoming black as it corrodes. May stain teeth dark brown or black over time	Excellent; often indistinguishable from natural tooth	Good; tooth colored, varies in translucency	Verygood, more translucency than glass ionomer
Frequency of Repair or Replacement	Low, replacement is usually due to fracture of the filing or the surrounding tooth	Lowto moderate; durable material hardens rapidly. Some composite materials show more rapid than amalgam. Replacement	Moderate; slowly dissolves in mouth, easily dislodged.	Moderate; may hold better than ionomer but not as well as composite
Relative Costs to Patient	Low, relatively inexpensive; adual cost of filings depends upon their size.	Moderate; higher than amalgam fillings; actual cost of fillings depends upon their size; veneers & crowns cost more.	Moderate; similar to composite resin (not used for veneer and crowns)	Moderate; similar to composite resin (not used for veneer and crowns)
Number of Visits	Single visit (polishing)	Single visit for fillings; more for veneers & crowns	Singlevisit	Singlevisit

dental amalgam fillings falls far below the established safe levels as stated in the 1999 US Health and Human Service Toxicological Profile for Mercury Update.

All dental restorative materials (as well as all materials that we come in contact with in our daily life) have the potential to elicit allergic reactions in hypersensitive individuals. These must be assessed on a case-by-case basis, and susceptible individuals should avoid contact with allergenic materials. Documented reports of allergic reactions to dental amalgam exist (usually manifested by transient skin rashes in individuals who have come into contact with the material), but they are atypical. Documented reports of toxicity to dental amalgam exist, but they are rare. There have been anecdotal reports of toxicity to dental amalgam and as with all dental material risks and benefits of dental amalgam should be discussed with the patient, especially with those in susceptible populations.

Composite resins are the preferred alternative to amalgam in many cases. They have a long history of biocompatibility and safety. Composite resins are composed of a variety of complex inorganic and organic compounds, any of which might provoke allergic response in susceptible individuals. Reports of such sensitivity are atypical. However, there are individuals who may be susceptible to sensitivity, allergic or adverse reactions to composite resin restorations. The risks and benefits of all dental materials should be discussed with the patient, especially with those in susceptible populations.

Other dental materials that have elicited significant concern among dentists are nickel-chromium-beryllium alloys used predominantly for crowns and bridges. Approximately 10% of the female populations are alleged to be allergic to nickel. The incidence of allergic response to dental restorations made from nickel alloys is surprisingly rare. However, when a patient has a positive history of confirmed nickel allergy, or when such hypersensitivity to dental restorations is suspected. Alternative metal alloys may be used. Discussion with the patient of the risks and benefits of these materials is indicated.

Glossary of Terms

General Description

Principle Uses-the types of dental restorations that are made from this material

Resistance to further decay-the general ability of the material to prevent decay around it

Longevity/durability-the probable average length of time before the material will have to be replaced (this will depend upon many factors unrelated to the material such as biting habits of the patient. The diet, the strength of their bite, oral hygiene, etc)

Conservation of Tooth Structure- a general measure of how much tooth needs to be removed in order to place and retain the material

Surface wear/fracture resistance- a general measure of how well the material holds up over time under the forces of biting, grinding, clenching, etc.

Marginal integrity (leakage)- an indication of the ability of the material to seal the interface between the restoration and the tooth, thereby helping to prevent sensitivity and new decay.

Resistance to occlusal stress-the ability of the material to survive heavy biting forces over time

Biocompatibility- the effect, if any, of the material on the general overall health of the patient

Allergic or adverse reactions- possible systemic or localized reactions of the skin, gums, and other tissues to the materials

Toxicity- an indication of the ability of the material to interfere with normal physiologic processes beyond the mouth

Susceptibility to sensitivity- an indication of the probability that the restored teeth may be sensitive stimuli (heat, cold, sweet, pressure) after the material is placed in them

Esthetics-indication of the degree to which the material resembles natural teeth

Frequency of repair or replacement- an indication of the expected longevity of the restoration made from this material

Relative cost-a qualitative indication of what one would pay for a restoration made from this material compared to all the rest

Number of visits required-how many times a patient would usually have to go to the dentist's office in order to get a restoration made from this material

Dental amalgam-filling material which is composed mainly of mercury (43-54%) and varying percentages of silver, in, and copper(48-57%)

TYPES OF INDIR	ECT RESTORATIVE DEN	ITALMATERIALS		
Comparative Factors	Porcelain(ceramic)	Porcelain(fused to metal)	Gold alloys (noble)	Nickel or Cobalt- chrome(base- metal) alloys
General Description	Glass-like material formed into fillings and crowns using models of the prepared teeth	Glass-like material that is enameled onto metal shells. Used for crowns and fixed bridge	Mixtures of gold, copper and other metals used mainly for crowns and fixed bridges	Mixtures of nickel, chromium
Principle Users	Inlays, veneers, crowns and fixed bridges	Crowns and fixed bridges	Cast crowns & fixed bridges; some partial denture frameworks	Crowns and fixed bridges; most partial denture frameworks
Resistance to Further Decay	Good, if the restoration fits well	Good, if the restoration fits well	Good, if the restoration fits well	Good, if the restoration fits well
Estimated Durability (permanent Teeth)	Moderate; britile material that may fracture high biting forces, not recommended for posterior (molar) teeth	Very good, less susceptible to fracture due to the metal substructure	Excellent; does not fracture under stress; does not corrode in the mouth	Excellent, does not fracture under stress; does not corrode in the mouth
Relative Amount of Teeth Preserved	Good; moderate removal of natural tooth is necessary for veneers; more for crowns since strength is related to its bulk	Moderate-high; Mora tooth must be removed to permit the metal to accompany the porcelain	Good, a strong material that requires removal of a thin outside layer of the tooth	Good, a strong material that requires removal of a thin outside layer of the tooth
Resistance to Surface Wear	Resistant to surface wear; but abrasive to opposing teeth	Resistant to surface wear, permits either metal or porcelain on the biting surface of crowns & bridge	Similar hardness to natural enamel; does not abrade opposing teeth	Harderthan natural enamel but minimally abrasive to opposing natural teeth. not fracture in bulk
Resistance to Fracture	Poor resistance to fracture	Porcelain may fracture	Does not fracture in bulk	Does not fracture in bulk
Resistance to Leakage	Very good can be truncated for very accurate fit of the margins	Good; very good depending upon design of the margins of the crowns	Very good- excellent. Can be formed with great precision, can be tightly adapted to the tooth	Good-very good; stiffer than gold; less adaptable, but can be formed with great precision
Resistance to Occlusal Stress	Moderate; brittle material susceptible to fracture under biting forces	Very good. Metal substructure gives high resistance to fracture	excellent	Excellent
Toxicity	Excellent. No known adverse effects	Very good to excellent. Occasionally rare allergy to metal alloys used	Excellent; rare allergy to some alloys	Good, nickel allergies are common among women, although rarely manifested in dental restorations
Allergic or Adverse Reactions	none	Rare. Occasional allergy to metal substructures	Rare; occasional allergic reactions seen in susceptible individual	Occational; infrequent reactions to nickel
Susceptibility To Post- Operative Sensitivity	Not material dependent; does not conduct heat and cold well	Not material dependent; dies not conduct heat and cold well	Conducts heat and cold; may brittle sensitive teeth	Conducts heat and cold; may brittle sensitive teeth
Esthetics (Appearance)	excellent	Good to excellent	Poor-yellow metal	Poor-darksilver metal
Frequency of Repair or Replacement	Varies; depends upon biting forces; fractures of molar teeth are more likely than anterior teeth; porcelain fracture may often be repaired with composite resin	Infrequent; porcelain fracture can often be repaired with composite resin.	Infrequent; replacement is usually due to recurrent decay around margins	Infrequent; replacement is usually obue to recurrent decay around margins
Relative Costs to Patient	High, requires at least two office visits and laboratory services	High; requires at least two office visits and laboratory services	High; requires at least two office visits and laboratory services	High; requires at least two office visits and laboratory services
Number of Visits Required	Ttwo-minimum; matching asthetics of tooth may require more visits	Ttwo-minimum; matching asthetics of tooth may require more visits	Two-minimum	Two-minimum

Signature	Doto
Signature	Date
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