			Guidelines	Diagnostics			
Treatment Year	Type of document	Country	Duggal M, Gizani S, Albadri S, et al. Best clinical practice guidance for treating deep carious		Specific recommendations	Level of evidence	Grade of recommendation
indirect pulp capping 202	22 Clinical practice guidel	i <sub>i</sub> Europe	lesions in primary teeth: an EAPD policy document. Eur Arch Paediatr Dent 2022; 23: 659–666.  Ministry of Health New Zealand. Combined	Asymptomatic restorable teeth with no clinical signs of pulp pathology; diagnostics and additional examination requirements not specified	Restoration providing a good coronal seal. Use the least invasive technique for the best predictable clinical outcome.	Unanimous agreement	Strong
	Clinical practice guidel	lir New Zealand	Dental Agreement: Operation Guidelines for Oral Health Services for Adolescents and Special Dental Services for Children and Adolescents.	Not clear; diagnostics and additional examination requirements not specified.	This is considered as part of the routine treatment.	Not stated	Not stated
		International	IAPD. IAPD Foundational Articles and Consensus Recommendations: Pulp Therapy for Primary and Young Permanent Teeth. IAPD, 2022.		Selective caries removal to soft dentine on the pulpal floor may be appropriate with deep lesions impinging on the pulp. Glass ionomer cement, resin modified glass ionomer cement, calcium hydroxide, zinc oxide/eugenol, or MTA are placed over the	Not stated	Not stated
202	21 Consensus	memalional	American Academy of Pediatric Dentistry. Pulp Therapy for Primary and Immature Permanent	Asymptomatic or teeth exhibiting provoked pain of short duration relieved with over-the-	remaining dentine to enhance pulp healing and repair.  IPC can be chosen instead of DPC or pulpotomy when the pulp is normal or has a diagnosis of reversible pulpitis and there is no pulp exposure. A protective liner is a thinly-applied material placed on the dentin in proximity to the underlying pulpal surface of a		Not stated
202	20 Best Practices	USA	Teeth. The Reference Manual Of Pediatric Dentistry 2020; 40: 343–351.	counter analgesics, by brushing, or upon the removal of the stimulus. Restorable teeth with no clinical or radiographic signs of pulp pathology.	deep cavity preparation, covering exposed dentin tubules to act as a protective barrier between the restorative material or cement and the pulp. Placement of a thin protective liner such as MTA, trisilicate cements, calcium hydroxide, or other biocompatible material is at the discretion of the clinician as material does not affect the IPC success. The tooth then is restored with a material that seals the tooth from microleakage.		Not stated
		LICA	Vineet Dhar et al. Use of Vital Pulp Therapies in Primary Teeth with Deep Caries Lesions	Asymptomatic teeth with no clinical and radiographical signs of pulp or periapical pathology.			O and this and
201	17 Clinical practice guidel	lir USA	Villanueva JM, Araneda L, Moreno JV, et al. Guía Clínica Urgencias Odontológicas Ambulatorias. Ministerio de Salud, Gobierno de	Symptomatic or asymptomatic teeth after clinical and radiographical examination, with norma pulp or reversible pulpitis.	Success is independent of the type of material used, thus clinicians choose the medicament based on individual preferences.		Grade C - Recommendation
201	11 Clinical practice guidel	lir Chile	Chile, 2011.  Rodd HD, Waterhouse PJ, Fuks AB, et al. Pulp		The placement of a thin shield such as calcium hydroxide or glass ionomer cement.  Local anaesthetic, good isolation with rubber dam, removal of all caries at the enamel-dentine junction, judicious removal of soft deep carious dentine (using hand excavators or a slowly rotating large round steel bur) lying directly over the pulp region with care	·	based on expert opinion or low quality studies only.
200	06 Clinical practice guidel	lii UK	therapy for primary molars. Int J Paediatr Dent 2006; 16 Suppl 1: 15–23.	Asymptomatic restorable teeth with no clinical and radiographic signs of pulp or penapical pa	to avoid a pulpal exposure, placement of appropriate lining material such as a reinforced glass ionomer cement, a hard-setting calcium hydroxide or zinc oxide eugenol, definitive restoration to achieve optimum external coronal seal (ideally an adhesive restoration or preformed crown).	Level III - Evidence has been obtained from a nu	<sub>In</sub> Grade B
200	05 Review	UK		Not clear; diagnostics and additional examination requirements not specified.	All the carious dentine must be removed, and a thin layer of sound, non-carious dentine must remain. A lining of setting calcium hydroxide is placed, which stimulates the formation of secondary dentine. The tooth is restored over the dressing with a permanent restorative material.		Not stated
dirrect pulp capping 202	22 Clinical practice quidel	lir Europe	Duggal M, Gizani S, Albadri S, et al. Best clinical practice guidance for treating deep carious lesions in primary teeth: an EAPD policy document. Eur Arch Paediatr Dent 2022; 23: 659–666.	Non-infectious conditions, asymptomatic teeth.	No information	Not stated	Not stated
anrect purp capping	zz Cillical practice guidel	Luiope	IAPD. IAPD Foundational Articles and Consensus Recommendations: Pulp Therapy for Primary and Young Permanent Teeth. IAPD, 2022.	Traumatic or iatrogenic pulp exposures.		The stated	The stated
202	21 Consensus	International	American Academy of Pediatric Dentistry. Pulp Therapy for Primary and Immature Permanent	Asymptomatic or teeth exhibiting provoked pain of short duration relieved with over-the-	Calcium hydroxide or MTA  When a pinpoint exposure (one millimeter or less) of the pulp is encountered during cavity preparation or following a traumatic	Not stated	Not stated
202	20 Best Practices	USA	Teeth. The Reference Manual Of Pediatric Dentistry 2020; 40: 343–351.	counter analgesics, by brushing, or upon the removal of the stimulus.	injury, a biocompatible radiopaque base such as MTA or calcium hydroxide may be placed in contact with the exposed pulp tissue.  The tooth is restored with a material that seals the tooth from microleakage.		Not stated
201	17 Clinical practice guidel	ii USA	Vineet Dhar et al. Use of Vital Pulp Therapies in Primary Teeth with Deep Caries Lesions	Asymptomatic restorable teeth with no clinical or radiographic signs of pulp or periapical pathology, pulp exposure (one mm or less) encountered during caries removal.	The success of DPC was independent of the type of medicament (dentin bonding agents, MTA, and formocresol), and therefore recommends that clinicians choose the medicament based on individual preferences.	Very low	Conditional
	06 Clinical practice guidel	liı UK		Small traumatic (non-carious) pulpal exposure for asymptomatic teeth with no clinical and radiographic signs of pulp or periapical pathology. Recommended for older child (1–2 years prior to normal exfoliation of the tooth) as in these cases treatment failure would not imply the need for a space maintainer following extraction, as it would in younger children.	Local anaesthetic, optimum isolation with rubber dam, gentle application of cotton pledget soaked in water/saline to stem any pulpal haemorrhage, application of hard-setting calcium hydroxide paste or mineral trioxide aggregate (MTA), definitive restoration to achieve optimum external coronal seal (ideally an adhesive restoration or preformed metal crown).	Level IV - No studies of good quality are availab	Grade C - generally not
200	oo Ciiriicai practice guidei	UII OK	Carrotte P. Endodontic treatment for children. Br	Vital non-infected pulp with small traumatic exposure.	to achieve optimum external coronal sear (ideally an adhesive restoration or preformed metal grown).	Level IV - No studies of good quality are availab	J. Peconimenaea
200	05 Review	UK	Duggal M, Gizani S, Albadri S, et al. Best clinical practice guidance for treating deep carious lesions in primary teeth: an EAPD policy	Asymptomatic restorable teeth with no clinical signs of pulp pathology; diagnostics and	A calcium hydroxide dressing is placed directly over the pulp, followed by a lining and restoration.		Not stated  Not clear; only strong
Pulpotomy 202	22 Clinical practice guidel	lii Europe	document. Eur Arch Paediatr Dent 2022; 23: 659–666.  Ministry of Health New Zealand. Combined	additional examination requirements not specified	Ferric Sulphate and MTA recommended. Formocresol not recommended due to it's potential toxic effects. Calcium hydroxide is not recommended due to the lack of effectiveness.		recommendation to not to use FC.
	Clinical practice guidel	lii New Zealand	Dental Agreement: Operation Guidelines for Oral Health Services for Adolescents and Special Dental Services for Children and Adolescents.  Ministry of Health New Zealand, 2022.	Not clear; diagnostics and additional examination requirements not specified.	Pulpotomy should only be used in unusual cases, it is certainly not intended as a routine procedure.	Not stated	Not stated
200	24 Correspond	International	IAPD. IAPD Foundational Articles and Consensus Recommendations: Pulp Therapy for Primary and Young Permanent Teeth. IAPD, 2022.				
202	21 Consensus	Hiternational	Health Policies and Standards Department, Health Regulation Sector. Guidelines for Pediatric Dentistry. Dubai Health Authority;	Symptoms of irreversible pulpitis, but no clear information about clinical and radiographic signs. The same indications as for pulpectomy.			
	Clinical practice guidel	lir Dubai	Government of Dubai, 2021.		Performed during GA - pulpotomy, IRM, stainless steel crown.	Not stated	Not stated
			American Academy of Pediatric Dentistry. Pulp Therapy for Primary and Immature Permanent Teeth. The Reference Manual Of Pediatric	Asymptomatic or teeth exhibiting provoked pain of short duration relieved with over-the-counter analgesics, by brushing, or upon the removal of the stimulus. Restorable teeth with no clinical or radiographic signs of pulp pathology.	Remove coronal pulp, control pulpal hemorrhage. When the coronal tissue is amputated, the remaining radicular tissue must be judged to be vital without suppuration, purulence, necrosis, or excessive hemorrhage that cannot be controlled by a cotton pellet		
			Dentistry 2020; 40: 343–351.		after several minutes. Treat remaining vital radicular pulp tissue with long-term medicament (MTA or formocresol). Other materials		MTA and formcresol recommended; other
202	20 Best Practices	USA			(ferric sulfate, lasers, sodium hypochlorite, and tricalcium silicate) have conditional recommendations. Do not use calcium hydroxide for pulpotomy. Fill pulp chamber with suitable base and seal tooth from microleakage with restoration. Use amalgam or composite resin for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions		medicaments - conditional recommendation.
			·	Asymptomatic teeth with no clinical and radiographical signs of pulp or periapical pathology, but exposed pulp during caries removal.	for pulpotomy. Fill pulp chamber with suitable base and seal tooth from microleakage with restoration. Use amalgam or composite resin for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions	quality evidence for FS, and laser, very low-quality evidence for NaOCl and tricalcium silicates low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCl and tricalcium silicate; conditional recommendation to NOT to u
	20 Best Practices  17 Clinical practice guidel		Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical	but exposed pulp during caries removal.  Asymptomatic restorable teeth with po clinical and radiographical signs of pulp or periopical.	for pulpotomy. Fill pulp chamber with suitable base and seal tooth from microleakage with restoration. Use amalgam or composite resin for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions  For pulpotomy, MTA, formocresol, FS, laser, NaOCl, tricalcium silicate can be used, but not calcium hydroxide.	quality evidence for FS, and laser, very low-quality evidence for NaOCl and tricalcium silicate; low-quality evidence to NOT to use calcium	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCl and tricalcium silicate; conditional recommendation to NOT to u
			Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical	but exposed pulp during caries removal.  Asymptomatic restorable teeth with po clinical and radiographical signs of pulp or periopical.	for pulpotomy. Fill pulp chamber with suitable base and seal tooth from microleakage with restoration. Use amalgam or composite resin for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions	quality evidence for FS, and laser, very low-quality evidence for NaOCl and tricalcium silicate low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA,	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCl and tricalcium silicate; conditional recommendation to NOT to un
		lir USA	Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Guía Clínica Urgencias Odontológicas	Asymptomatic restorable teeth with no clinical and radiographical signs of pulp or periapical pathology, but with exposed pulp.  Symptomatic or asymptomatic teeth after clinical and radiographical examination, with norma	for pulpotomy. Fill pulp chamber with suitable base and seal tooth from microleakage with restoration. Use amalgam or composite resin for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions  For pulpotomy, MTA, formocresol, FS, laser, NaOCI, tricalcium silicate can be used, but not calcium hydroxide.  Complete removal of carious tooth tissue must precede pulp chamber opening to avoid bacterial contamination. During operating procedures designed to remove pulp from the chamber, it is important to use abundant irrigation to avoid damaging or overheating root pulp. Any bleeding from root openings must stop spontaneously within four minutes at most. The next step is to position the chosen material (MTA, Portland cement or calcium hydroxide (less recommended)), construct a provisional restoration and carry out a radiographic check.	quality evidence for FS, and laser, very low-quality evidence for NaOCl and tricalcium silicate low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA,  Not stated	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCl and tricalcium silicate; conditional recommendation to NOT to ucalcium hydroxide.  Not stated  recommended, based on good quality studies. In interventions: systematic
201		lii USA Italy	Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Guía Clínica Urgencias Odontológicas	but exposed pulp during caries removal.  Asymptomatic restorable teeth with no clinical and radiographical signs of pulp or periapical pathology, but with exposed pulp.	for pulpotomy. Fill pulp chamber with suitable base and seal tooth from microleakage with restoration. Use amalgam or composite resin for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions  For pulpotomy, MTA, formocresol, FS, laser, NaOCl, tricalcium silicate can be used, but not calcium hydroxide.  Complete removal of carious tooth tissue must precede pulp chamber opening to avoid bacterial contamination. During operating procedures designed to remove pulp from the chamber, it is important to use abundant irrigation to avoid damaging or overheating root pulp. Any bleeding from root openings must stop spontaneously within four minutes at most. The next step is to position the chosen material (MTA, Portland cement or calcium hydroxide (less recommended)), construct a provisional restoration and carry out a radiographic check.  Pulpotomy is a procedure in which the chamber pulp is amputated and the root pulp is devitalised, with the aim of removing all infected or inflamed tissue while maintaining the root pulp. Formocresol, MTA, ferric sulphate or a layer of pure calcium hydroxide can be used for this purpose. FC due to toxic properties can be replaced by MTA or ferric sulphate without decreasing the likelihood of successful treatment or FC can be diluted (3.8% formaldehyde, 7% cresol, 63% glycerine in 100 ml water) and the exposure time on pulp stumps should be reduced to less than 5 minutes.	quality evidence for FS, and laser, very low-quality evidence for NaOCl and tricalcium silicate low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA,  Not stated	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCl and tricalcium silicate; conditional recommendation to NOT to ucalcium hydroxide.  Not stated  recommended, based on good quality studies. In interventions: systematic reviews of randomised clinical trials, randomised clinical trials, other systematic
201	17 Clinical practice guidel	lii USA Italy	Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Guía Clínica Urgencias Odontológicas Ambulatorias. Ministerio de Salud, Gobierno de Chile, 2011.  Rodd HD, Waterhouse PJ, Fuks AB, et al. Pulp therapy for primary molars. Int J Paediatr Dent	Asymptomatic restorable teeth with no clinical and radiographical signs of pulp or periapical pathology, but with exposed pulp.  Symptomatic or asymptomatic teeth after clinical and radiographical examination, with norma	For pulpotomy. Fill pulp chamber with suitable base and seal tooth from microleakage with restoration. Use amalgam or composite resin for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions  For pulpotomy, MTA, formocresol, FS, laser, NaOCl, tricalcium silicate can be used, but not calcium hydroxide.  Complete removal of carious tooth tissue must precede pulp chamber opening to avoid bacterial contamination. During operating procedures designed to remove pulp from the chamber, it is important to use abundant irrigation to avoid damaging or overheating root pulp. Any bleeding from root openings must stop spontaneously within four minutes at most. The next step is to position the chosen material (MTA, Portland cement or calcium hydroxide (less recommended)), construct a provisional restoration and carry out a radiographic check.  Pulpotomy is a procedure in which the chamber pulp is amputated and the root pulp is devitalised, with the aim of removing all infected or inflamed tissue while maintaining the root pulp. Formocresol, MTA, ferric sulphate or a layer of pure calcium hydroxide can be used for this purpose. FC due to toxic properties can be replaced by MTA or ferric sulphate without decreasing the likelihood of successful treatment or FC can be diluted (3.8% formaldehyde, 7% cresol, 63% glycerine in 100 ml water) and the exposure time on pulp stumps should be reduced to less than 5 minutes.  Excert anaestreac, occor solation with respondent many nemovar or carries, complete removar or roor or pulp chamber pretenanty with non-end cutting bur, removal of coronal pulpal tissue with sharp sterile excavator or large round bur in a slow handpiece, attain initial radicular pulpal haemostasis by gentle application of sterile cotton pledget mostered with saline (haemostasis should be achieved within four minutes). Selection of medicament for direct application to radicular pulp stumps to include any of the following the pulp stumps to include a	quality evidence for FS, and laser, very low-quality evidence for NaOCl and tricalcium silicate low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA,  Not stated  Level 1 - evidence from RCT	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCl and tricalcium silicate; conditional recommendation to NOT to u calcium hydroxide.  Not stated  recommended, based on good quality studies. In interventions: systematic reviews of randomised clinical trials, randomised clinical trials, other systematic
201	17 Clinical practice guidel	litaly  Chile	Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Guía Clínica Urgencias Odontológicas Ambulatorias. Ministerio de Salud, Gobierno de Chile, 2011.  Rodd HD, Waterhouse PJ, Fuks AB, et al. Pulp	Asymptomatic restorable teeth with no clinical and radiographical signs of pulp or periapical pathology, but with exposed pulp.  Symptomatic or asymptomatic teeth after clinical and radiographical examination, with norma pulp or reversible pulpitis.	For pulpotomy, Fill pulp chamber with suitable base and seal tooth from microleakage with restoration. Use amalgam or composite resin for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions  For pulpotomy, MTA, formocresol, FS, laser, NaOCl, tricalcium silicate can be used, but not calcium hydroxide.  Complete removal of carious tooth tissue must precede pulp chamber opening to avoid bacterial contamination. During operating procedures designed to remove pulp from the chamber, it is important to use abundant irrigation to avoid damaging or overheating root pulp. Any bleeding from root openings must stop spontaneously within four minutes at most. The next step is to position the chosen material (MTA, Portland cement or calcium hydroxide (less recommended)), construct a provisional restoration and carry out a radiographic check.  Pulpotomy is a procedure in which the chamber pulp is amputated and the root pulp is devitalised, with the aim of removing all infected or inflamed tissue while maintaining the root pulp. Formocresol, MTA, ferric sulphate or a layer of pure calcium hydroxide can be used for this purpose. FC due to toxic properties can be replaced by MTA or ferric sulphate without decreasing the likelihood of successful treatment or FC can be diluted (3.8% formaldehyde, 7% cresol, 63% glycerine in 100 ml water) and the exposure time on pulp stumps should be reduced to less than 5 minutes.  Local anaestricus, Good isolation with rubber dami, removal of carness, complete removal or root or pulp reminer preferably with a non-end cutting bur, removal of coronal pulpal tissue with sharp sterile excavator or large round bur in a slow handpiece, attain initial radicular pulpal haemostasis by gentle application of sterile cotton pledget moistened with saline (haemostasis should be achieved within four minutes). Selection of medicament for direct application to radicular pulps tumps to include any of the following	quality evidence for FS, and laser, very low-quality evidence for NaOCl and tricalcium silicate low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA,  Not stated  Level 1 - evidence from RCT	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCl and tricalcium silicate; conditional recommendation to NOT to u calcium hydroxide.  Not stated  recommended, based on good quality studies. In interventions: systematic reviews of randomised clinical trials, randomised clinical trials, other systematic reviews with or without met
201	17 Clinical practice guidel  11 Clinical practice guidel	litaly  Chile	Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Guía Clínica Urgencias Odontológicas Ambulatorias. Ministerio de Salud, Gobierno de Chile, 2011.  Rodd HD, Waterhouse PJ, Fuks AB, et al. Pulp therapy for primary molars. Int J Paediatr Dent	Asymptomatic restorable teeth with no clinical and radiographical signs of pulp or periapical pathology, but with exposed pulp.  Symptomatic or asymptomatic teeth after clinical and radiographical examination, with norma pulp or reversible pulpitis.	for pulpotomy, Fill pulp chamber with suitable base and seal tooth from microleakage with restoration. Use amalgam or composite resin for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions  For pulpotomy, MTA, formocresol, FS, laser, NaOCl, tricalcium silicate can be used, but not calcium hydroxide.  Complete removal of carious tooth tissue must precede pulp chamber opening to avoid bacterial contamination. During operating procedures designed to remove pulp from the chamber, it is important to use abundant irrigation to avoid damaging or overheating root pulp. Any bleeding from root openings must stop spontaneously within four minutes at most. The next step is to position the chosen material (MTA, Portland cement or calcium hydroxide (less recommended)), construct a provisional restoration and carry out a radiographic check.  Pulpotomy is a procedure in which the chamber pulp is amputated and the root pulp is devitalised, with the aim of removing all infected or inflamed tissue while maintaining the root pulp. Formocresol, MTA, ferric sulphate or a layer of pure calcium hydroxide can be used for this purpose. FC due to toxic properties can be replaced by MTA or ferric sulphate without decreasing the likelihood of successful treatment or FC can be diluted (3.8% formaldehyde, 7% cresol, 63% glycerine in 100 ml water) and the exposure time on pulp stumps should be reduced to less than 5 minutes.  Donard measurement, coord solvation and pulpal tissue with sharp sterile excavator or large round bur in a slow handpiece, attain initial radicular pulpal haemostasis by gentle application of sterile cotton pledget moistened with saline (haemostasis should be achieved within four minutes). Selection of medicament for direct application to radicular pulp stumps to include any of the following (1) 115.5% ferric sulphate solution, burnished on pulp stumps with microbrush for 15 seconds to achieve haemostasis, followed by thorough rinsing and drying;	quality evidence for FS, and laser, very low-quality evidence for NaOCI and tricalcium silicate; low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA,  Not stated  Level 1 - evidence from RCT	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCl and tricalcium silicate; conditional recommendation to NOT to ucalcium hydroxide.  Not stated  recommended, based on good quality studies. In interventions: systematic reviews of randomised clinical trials, randomised clinical trials, other systematic reviews with or without me
201	17 Clinical practice guidel  11 Clinical practice guidel	litaly  Chile	Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Guía Clínica Urgencias Odontológicas Ambulatorias. Ministerio de Salud, Gobierno de Chile, 2011.  Rodd HD, Waterhouse PJ, Fuks AB, et al. Pulp therapy for primary molars. Int J Paediatr Dent	Asymptomatic restorable teeth with no clinical and radiographical signs of pulp or periapical pathology, but with exposed pulp.  Symptomatic or asymptomatic teeth after clinical and radiographical examination, with norma pulp or reversible pulpitis.	For pulpotomy, Fill pulp chamber with suitable base and seal tooth from microleakage with restoration. Use amalgam or composite resin for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions  For pulpotomy, MTA, formocresol, FS, laser, NaOCI, tricalcium silicate can be used, but not calcium hydroxide.  Complete removal of carious tooth tissue must precede pulp chamber opening to avoid bacterial contamination. During operating procedures designed to remove pulp from the chamber, it is important to use abundant irrigation to avoid damaging or overheating root pulp. Any bleeding from root openings must stop spontaneously within four minutes at most. The aste pis to position the chosen material (MTA, Portland cement or calcium hydroxide (less recommended)), construct a provisional restoration and carry out a radiographic check.  Pulpotomy is a procedure in which the chamber pulp is amputated and the root pulp is devitalised, with the aim of removing all infected or inflamed tissue while maintaining the root pulp. Formocresol, MTA, ferric sulphate or a layer of pure calcium hydroxide can be used for this purpose. FC due to toxic properties can be replaced by MTA or ferric sulphate without decreasing the likelihood of successful treatment or FC can be diluted (3.8% formaldehyde, 7% cresol, 63% glycerine in 100 ml water) and the exposure time on pulp stumps should be reduced to less than 5 minutes.  Document of the pulp of the pulp of the pulp temperature of the pulp chamber preture of the archives an assurance, over a substant in minute and the pulp stumps with microbrush for 15 seconds to achieve haemostasis should be achieved within four minutes). Selection of medicament for direct application to radicular pulp stumps to include any of the following 1) 11.55% ferric sulphate source of pulp stumps with microbrush for 15 seconds to achieve haemostasis; followed by thoroxyla fricin till a radicular pulp with proprietary carrier;  Can be done as vi	quality evidence for FS, and laser, very low-quality evidence for NaOCI and tricalcium silicate; low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA,  Not stated  Level 1 - evidence from RCT	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCl and tricalcium silicate; conditional recommendation to NOT to u calcium hydroxide.  Not stated  recommended, based on good quality studies. In interventions: systematic reviews of randomised clinical trials, randomised clinical trials, other systematic reviews with or without met
201	17 Clinical practice guidel  11 Clinical practice guidel	litaly  Chile	Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Guía Clínica Urgencias Odontológicas Ambulatorias. Ministerio de Salud, Gobierno de Chile, 2011.  Rodd HD, Waterhouse PJ, Fuks AB, et al. Pulp therapy for primary molars. Int J Paediatr Dent	Asymptomatic restorable teeth with no clinical and radiographical signs of pulp or periapical pathology, but with exposed pulp.  Symptomatic or asymptomatic teeth after clinical and radiographical examination, with norma pulp or reversible pulpitis.  Asymptomatic restorable teeth with no clinical and radiographic signs of pulp or periapical pathology.	for pulpotomy. Fill pulp chamber with suitable base and seal tooth from microleakage with restoration. Use amalgam or composite resin for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions for the pulp of the pulp	quality evidence for FS, and laser, very low-quality evidence for NaOCl and tricalcium silicate low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA,  Not stated  Level 1 - evidence from RCT  Level Ia and Ib - Evidence is available from meta	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCl and tricalcium silicate; conditional recommendation to NOT to u calcium hydroxide.  Not stated  recommended, based on good quality studies. In interventions: systematic reviews of randomised clinical trials, randomised clinical trials, other systematic reviews with or without met
201	17 Clinical practice guidel  11 Clinical practice guidel	litaly  Chile	Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Guía Clínica Urgencias Odontológicas Ambulatorias. Ministerio de Salud, Gobierno de Chile, 2011.  Rodd HD, Waterhouse PJ, Fuks AB, et al. Pulp therapy for primary molars. Int J Paediatr Dent	Asymptomatic restorable teeth with no clinical and radiographical signs of pulp or periapical pathology, but with exposed pulp.  Symptomatic or asymptomatic teeth after clinical and radiographical examination, with norma pulp or reversible pulpitis.  Asymptomatic restorable teeth with no clinical and radiographic signs of pulp or periapical pathology to perform vital or devitalization pulpotomy. If radiolucency observed periapically,	for pulpotomy. Fill pulp chamber with suitable base and seal tooth from microleakage with restoration. Use amalgam or composite resin for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions for pulpotomy, MTA, formocresol, FS, laser, NaOCI, tricalcium silicate can be used, but not calcium hydroxide.  Complete removal of carious tooth tissue must precede pulp chamber opening to avoid bacterial contamination. During operating procedures designed to remove pulp from the chamber, it is important to use abundant irrigation to avoid damaging or overheating rocd pulp. Any bleeding from root openings must stop spontaneously within four minutes at most. The next step is to position the chosen material (MTA, Portland cement or calcium hydroxide (less recommended)), construct a provisional restoration and carry out a radiographic check.  Pulpotomy is a procedure in which the chamber pulp is amputated and the root pulp is devitalised, with the aim of removing all infected or inflamed tissue with lemaintaining the root pulp. Formocreosi, MTA, ferric sulphate or a layer of pure calcium hydroxide can be used for this purpose. FC due to toxic properties can be replaced by MTA or ferric sulphate without decreasing the likelihood of successful treatment or FC can be diluted (3.8% formaldehyde, 7% crosol, 63% glycerine in 100 ml water) and the exposure time on pulp stumps should be reduced to less than 5 minutes.  Contamination of pulp removed properties and 5 minutes.  Contamination of pulp removed properties and 5 minutes.  Contamination of pulp removed pulp removed variant remover or or or pulp removed properties or more deviced pulps. The pulps of the following 1) 1.5.5% ferric sulphate solution, burnished on pulp stumps with microbrush for 15 seconds to achieve haemostasis, followed by thorough circuits pulps to formocresol so	quality evidence for FS, and laser, very low-quality evidence for NaOCl and tricalcium silicate low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA,  Not stated  Level 1 - evidence from RCT  Level Ia and Ib - Evidence is available from meta	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCl and tricalcium silicate; conditional recommendation to NOT to u calcium hydroxide.  Not stated  recommended, based on good quality studies. In interventions: systematic reviews of randomised clinical trials, randomised clinical trials, other systematic reviews with or without met
201	11 Clinical practice guidel Clinical practice guidel Clinical practice guidel	lin USA  Italy  Lin Chile	Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Guía Clínica Urgencias Odontológicas Ambulatorias. Ministerio de Salud, Gobierno de Chile, 2011.  Rodd HD, Waterhouse PJ, Fuks AB, et al. Pulp therapy for primary molars. Int J Paediatr Dent 2006; 16 Suppl 1: 15–23.	Asymptomatic restorable teeth with no clinical and radiographical signs of pulp or periapical pathology, but with exposed pulp.  Symptomatic or asymptomatic teeth after clinical and radiographical examination, with norma pulp or reversible pulpitis.  Asymptomatic restorable teeth with no clinical and radiographic signs of pulp or periapical pathology to perform vital or devitalization pulpotomy. If radiolucency observed periapically,	for pulpotomy. Fill pulp chamber with suitable base and seal tooth from microleakage with restoration. Use amalgam or composite resin for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions for pulpotomy, MTA, formocresol, FS, laser, NaOCI, tricalcium silicate can be used, but not calcium hydroxide.  Complete removal of carious tooth tissue must precede pulp chamber opening to avoid bacterial contamination. During operating procedures designed to remove pulp from the chamber, it is important to use abundant irrigation to avoid damaging or overheating root pulp. Any bleeding from root openings must stop spontaneously within four minutes at most. The next step is position the chosen material (MTA, Portland cement or calcium hydroxide (less recommended)), construct a provisional restoration and carry out a radiographic check.  Pulpotomy is a procedure in which the chamber pulp is amputated and the root pulp is devitalised, with the aim of removing all infected or inflamed issue while maintaining the root pulp. Formocresol, MTA, ferric sulphate or a layer of pure calcium hydroxide can be used for this purpose. FC due to toxic properties can be replaced by MTA or ferric sulphate without decreasing the infected or inflamed issue while maintaining the root pulp. Formocresol, MTA, ferric sulphate without decreasing the exposure time on pulp stumps should be reduced to less than 5 minutes.  In a subject of this purpose. FC due to toxic properties can be replaced by MTA or ferric sulphate without water) and the exposure time on pulp stumps with maintain adicular pulp alternose stains by gentle application of sterile cotton pledget moistened with saline fearenosis as should be achieved within four minutes). Selection of medicament for direct application to radicular pulp stumps with maintain planeous planeous planeous plane	quality evidence for FS, and laser, very low-quality evidence for NaOCl and tricalcium silicate low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA,  Not stated  Level 1 - evidence from RCT  Level Ia and Ib - Evidence is available from metals.  Not stated	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCl and tricalcium silicate; conditional recommendation to NOT to use calcium hydroxide.  Not stated  recommended, based on good quality studies. In interventions: systematic reviews of randomised clinical trials, randomised clinical trials, other systematic reviews with or without me  are Grades A and B
201	11 Clinical practice guidel Clinical practice guidel Clinical practice guidel	lin USA  Italy  Lin Chile	Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Guía Clínica Urgencias Odontológicas Ambulatorias. Ministerio de Salud, Gobierno de Chile, 2011.  Rodd HD, Waterhouse PJ, Fuks AB, et al. Pulp therapy for primary molars. Int J Paediatr Dent 2006; 16 Suppl 1: 15–23.  Carrotte P. Endodontic treatment for children. Br	Asymptomatic restorable teeth with no clinical and radiographical signs of pulp or periapical pathology, but with exposed pulp.  Symptomatic or asymptomatic teeth after clinical and radiographical examination, with norma pulp or reversible pulpitis.  Asymptomatic restorable teeth with no clinical and radiographic signs of pulp or periapical pathology to perform vital or devitalization pulpotomy. If radiolucency observed periapically, non-vital pulpotomy recommended.  Spontaneous or persistent pain or absence of pain; tooth that have suffered trauma with pulpal exposure, time interval greater than 24 hours; tooth with extensive caries lesion or unsatisfactory restoration associated with signs and symptoms of irreversible pulpitis; severe	for pulpotomy. Fill pulp chamber with suitable base and seal tooth from microleakage with restoration. Use amalgam or composite resin for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions for the pulp chamber of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions with the pulp chamber opening to avoid bacterial contamination. During operating procedures designed to remove pulp from the chamber, it is important to use abundant irrigation to avoid damaging or overheating root pulp. Any bleeding from root openings must stop spontaneously within four minutes at most. The next step is to position the chosen material (MTA, Portland cement or calcium hydroxide (less recommended)), construct a provisional restoration and carry out a radiographic check.  Pulpotomy is a procedure in which the chamber pulp is amputated and the root pulp is devitalised, with the aim of removing all infected or inflamed tissue while maintaining the root pulp. Formocresol, MTA, ferric sulphate or a layer of pure calcium hydroxide can be used for this purpose. FC due to toxic properties can be replaced by MTA or ferric sulphate without decreasing the exposure time on pulp stumps should be reduced to less than 5 minutes.  In this proper is the substance of the pulp of the pul	quality evidence for FS, and laser, very low-quality evidence for NaOCl and tricalcium silicate low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA,  Not stated  Level 1 - evidence from RCT  Level Ia and Ib - Evidence is available from metals.  Not stated	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCl and tricalcium silicate; conditional recommendation to NOT to use calcium hydroxide.  Not stated  recommended, based on good quality studies. In interventions: systematic reviews of randomised clinical trials, randomised clinical trials, other systematic reviews with or without me  are Grades A and B
201	11 Clinical practice guidel  Clinical practice guidel  Clinical practice guidel  Review	lin USA  Italy  Lin Chile	Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Guía Clínica Urgencias Odontológicas Ambulatorias. Ministerio de Salud, Gobierno de Chile, 2011.  Rodd HD, Waterhouse PJ, Fuks AB, et al. Pulp therapy for primary molars. Int J Paediatr Dent 2006; 16 Suppl 1: 15–23.	Asymptomatic restorable teeth with no clinical and radiographical signs of pulp or periapical pathology, but with exposed pulp.  Symptomatic or asymptomatic teeth after clinical and radiographical examination, with norma pulp or reversible pulpitis.  Asymptomatic restorable teeth with no clinical and radiographic signs of pulp or periapical pathology to perform vital or devitalization pulpotomy. If radiolucency observed periapically, non-vital pulpotomy recommended.  Spontaneous or persistent pain or absence of pain; tooth that have suffered trauma with pulpal exposure, time interval greater than 24 hours; tooth with extensive caries lesion or	for pulpotomy. Fill pulp chamber with suitable base and seal tooth from microleakage with restoration. Use amaigam or composite resin for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions are suitable to the control of the pulpotomy. MTA, formocresol, FS, laser, NaOCI, tricalcium silicate can be used, but not calcium hydroxide.  Complete removal of carious tooth tissue must precede pulp chamber opening to avoid bacterial contamination. During operating procedures designed to remove pulp from the chamber, it is important to use abundant firigation to avoid damaging or overheating root pulp. Any bedeing from not openings must stop spontaneously within four minutes at most. The mest step is to position the chosen material (MTA, Portland cement or calcium hydroxide (less recommended)), construct a provisional restoration and carry out a radiographic check.  Pulpotomy is a procedure in which the chamber pulp is amputated and the root pulp is devitalised, with the aim of removing all infected or inflamed tissue while maintaining the root pulp. Formocresol, MTA, ferric sulphate or a layer of pure calcium hydroxide can be used for this purpose. FC due to toxic properties can be replaced by MTA or ferric sulphate without decreasing the likelihood of successful treatment or FC can be dituted (3.8% formatical pulps and p	quality evidence for FS, and laser, very low-quality evidence for NaOCl and tricalcium silicate; low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA,  Not stated  Level 1 - evidence from RCT  Level Ia and Ib - Evidence is available from meta  Not stated	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCl and tricalcium silicate; conditional recommendation to NOT to use calcium hydroxide.  Not stated  recommended, based on good quality studies. In interventions: systematic reviews of randomised clinical trials, randomised clinical trials, other systematic reviews with or without me
201	Clinical practice guidel Clinical practice guidel Clinical practice guidel Review	lii USA  Italy  UK  UK	Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Guía Clínica Urgencias Odontológicas Ambulatorias. Ministerio de Salud, Gobierno de Chile, 2011.  Rodd HD, Waterhouse PJ, Fuks AB, et al. Pulp therapy for primary molars. Int J Paediatr Dent 2006; 16 Suppl 1: 15–23.  Carrotte P. Endodontic treatment for children. Br  Laura Guimarães Primo et al. Protocolo De Pulpectomia Para Dentes Decíduos: Um Guia Clínico E Prático Baseado Em Evidências Científicas, 2022  Duggal M, Gizani S, Albadri S, et al. Best clinical practice guidance for treating deep carious lesions in primary teeth: an EAPD policy document. Eur Arch Paediatr Dent 2022; 23:	Asymptomatic restorable teeth with no clinical and radiographical signs of pulp or periapical pathology, but with exposed pulp.  Symptomatic or asymptomatic teeth after clinical and radiographical examination, with norma pulp or reversible pulpitis.  Asymptomatic restorable teeth with no clinical and radiographic signs of pulp or periapical pathology to perform vital or devitalization pulpotomy. If radiolucency observed periapically, non-vital pulpotomy recommended.  Spontaneous or persistent pain or absence of pain; tooth that have suffered trauma with pulpal exposure, time interval greater than 24 hours; tooth with extensive caries lesion or unsatisfactory restoration associated with signs and symptoms of irreversible pulpits; severe bleeding with aftered colouration (no longer bright red) that does not stop after a few minutes during coronal opening. Clinically can be presence of fistula, edema or abscess; radiographycally can be apical/periapical radiolucency. Contramidated if patient has systemic condition (immunocompromised, pre or post-transplant, or with risk of infectious endocarditis).	for pulpotomy. Fill pulp chamber with suitable base and seal toolt from microleakage with restoration. Use amalgam or composite resin for teeth with a lifespan of two years or less and sufficient enamed support. Use stairless steel crown for multisurface lesions for teeth with a lifespan of two years or less and sufficient enamed support. Use stairless steel crown for multisurface lesions for the pulp of the pu	quality evidence for FS, and laser, very low-quality evidence for NaOCI and tricalcium silicate; low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA,  Not stated  Level 1 - evidence from RCT  Level Ia and Ib - Evidence is available from metals.  Not stated	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCI and tricalcium silicate; conditional recommendation to NOT to ucalcium hydroxide.  Not stated  recommended, based on good quality studies. In interventions: systematic reviews of randomised clinical trials, randomised clinical trials, other systematic reviews with or without metals.  Grades A and B  Not stated  Not stated
201	11 Clinical practice guidel  Clinical practice guidel  Clinical practice guidel  Review	lii USA  Italy  UK  UK	Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Guía Clínica Urgencias Odontológicas Ambulatorias. Ministerio de Salud, Gobierno de Chile, 2011.  Rodd HD, Waterhouse PJ, Fuks AB, et al. Pulp therapy for primary molars. Int J Paediatr Dent 2006; 16 Suppl 1: 15–23.  Carrotte P. Endodontic treatment for children. Br  Laura Guimarães Primo et al. Protocolo De Pulpectomia Para Dentes Decíduos: Um Guia Clínico E Prático Baseado Em Evidências Científicas, 2022  Duggal M, Gizani S, Albadri S, et al. Best clinical pragatice guidance for Italia de Periodo Policy document. Eur Arch Paediatr Dent 2022; 23: 659–666.  Ministry of Health New Zealand. Combined Dental Agreement: Operation Guidelines for Oral Health Services for Adolescents and Special	Asymptomatic restorable teeth with no clinical and radiographical signs of pulp or periapical pathology, but with exposed pulp.  Symptomatic or asymptomatic teeth after clinical and radiographical examination, with norma pulp or reversible pulpitis.  Asymptomatic restorable teeth with no clinical and radiographic signs of pulp or periapical pathology to perform vital or devitalization pulpotomy. If radiolucency observed periapically, and non-vital pulpotomy recommended.  Spontaneous or persistent pain or absence of pain; tooth that have suffered trauma with pulpal exposure, time interval greater than 24 hours; tooth with extensive caries lesion or unsatisfactory restoration associated with signs and symptoms of irreversible pulpitis; severe bleeding with altered colouration (no longer bright red) that does not stop after a few minuted during coronal opening. Clinically can be presence of fistula, deema or abscess; radiographycally can be apicallyperiapical radiolucency. Contrainciacted if patient has systemic condition (immunocompromised, pre or post-transplant, or with risk of infectious endocarditis).  Children, year 8 and under at school, or pre-schoolers under five years of age, with intact roots. Severe infections associated with primary teeth do not respond well to pulpectomy.	for pulpotomy. Fill pulp chamber with sutable base and seal toolt from microleakage with restoration. Use amalgam or composite resis for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions for the pulpotomy. And formoresol, FS, laser, NaOCI, tricalcium slicate can be used, but not calcium hydroxide.  Complete removal of carious tooth lissue must precede pulp chamber opening to avoid bacterial contamination. During operating procedures designed to remove pulp from the chamber, it is important to use abundant impain to device designed or converted the chamber of th	quality evidence for FS, and laser, very low-quality evidence for NaOCI and tricalcium silicate; low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA,  Not stated  Level 1 - evidence from RCT  Level Ia and Ib - Evidence is available from metals.  Not stated	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCI and tricalcium silicate; conditional recommendation to NOT to use calcium hydroxide.  Not stated  recommended, based on good quality studies. In interventions: systematic reviews of randomised clinical trials, randomised clinical trials, other systematic reviews with or without medical trials.  The systematic reviews with or without medical trials and B.  Not stated  Not stated
201	Clinical practice guidel Clinical practice guidel Clinical practice guidel Review	lir USA  Italy  UK  UK  UK  Europe	Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Guía Clínica Urgencias Odontológicas Ambulatorias. Ministerio de Salud, Gobierno de Chile, 2011.  Rodd HD, Waterhouse PJ, Fuks AB, et al. Pulp therapy for primary molars. Int J Paediatr Dent 2006; 16 Suppl 1: 15–23.  Carrotte P. Endodontic treatment for children. Br  Laura Guimarães Primo et al. Protocolo De Pulpectomia Para Dentes Decíduos: Um Guia Clínico E Prático Baseado Em Evidências Científicas, 2022  Duggal M, Gizani S, Albadri S, et al. Best clinical practic guidance for treating deep carious lesions in primary teets: an EAPD policy document. Eur Arch Paediatr Dent 2022; 23: 659–666.  Ministry of Health New Zealand. Combined Dental Services for Adolescents and Special Dental Services for Children and Adolescents. Ministry of Health New Zealand, 2022.	Asymptomatic restorable teeth with no clinical and radiographical signs of pulp or periapical pathology, but with exposed pulp.  Symptomatic or asymptomatic teeth after clinical and radiographical examination, with norma pulp or reversible pulpitis.  Asymptomatic restorable teeth with no clinical and radiographic signs of pulp or periapical pathology to perform vital or devitalization pulpotomy. If radiolucency observed periapically, non-vital pulpotomy recommended.  Spontaneous or persistent pain or absence of pain; tooth that have suffered trauma with pulpal exposure, time interval greater than 24 hours; tooth with extensive caries lesion or unsatisfactory restoration associated with signs and symptoms of irreversible pulpitis; severe bleeding with altered colouration (no longer bright red) that does not stop after a few minutes during coronal opening. Clinically can be presence of fistula, edema or abscess; radiographycally can be apical/periapical radiolucency. Contraindicated if patient has systemic condition (immunocompromised, pre or post-transplant, or with risk of infectious endocarditis).  Symptoms of irreversible pulpitis  Children, year 8 and under at school, or pre-schoolers under five years of age, with intact	for pulpotomy. Fill pulp chamber with sutable base and seal toolt from microleakage with restoration. Use amalgam or composite resis for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions for teeth with a lifespan of two years or less and sufficient enamel support. Use stainless steel crown for multisurface lesions for the pulpotomy. And formoresol, FS, laser, NaOCI, tricalcium slicate can be used, but not calcium hydroxide.  Complete removal of carious tooth lissue must precede pulp chamber opening to avoid bacterial contamination. During operating procedures designed to remove pulp from the chamber, it is important to use abundant impain to device designed or converted the chamber of th	quality evidence for FS, and laser, very low-quality evidence for NaOCI and tricalcium silicate: low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA,  Not stated  Level 1 - evidence from RCT  Level Ia and Ib - Evidence is available from meta  Not stated  Not stated  Not stated	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCI and tricalcium silicate; conditional recommendation to NOT to ucalcium hydroxide.  Not stated  recommended, based on good quality studies. In interventions: systematic reviews of randomised clinical trials, randomised clinical trials, other systematic reviews with or without metals.  Grades A and B  Not stated  Not stated
201 201 201 201 201	Clinical practice guidel	lir USA  Italy  UK  UK  UK  Europe	Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Guía Clínica Urgencias Odontológicas Ambulatorias. Ministerio de Salud, Gobierno de Chile, 2011.  Rodd HD, Waterhouse PJ, Fuks AB, et al. Pulp therapy for primary molars. Int J Paediatr Dent 2006; 16 Suppl 1: 15–23.  Carrotte P. Endodontic treatment for children. Br  Laura Guimarães Primo et al. Protocolo De Pulpectomia Para Dentes Decíduos: Um Guia Clínico E Prático Baseado Em Evidências Científicas, 2022  Duggal M, Gizani S, Albadri S, et al. Best clinical practice guidance for treating deep carious lesions guidance for treating deep carious lesions in primary teeth: an EAPD policy document. Eur Arch Paediatr Dent 2022; 23: 659–666.  Ministry of Health New Zealand. Combined Dental Agrevices for Children and Adolescents. Ministry of Health New Zealand, 2022.  IAPD. IAPD Foundational Articles and Consensus Recommendations: Pulp Therapy for Primary and Recomme	Asymptomatic restorable teeth with no clinical and radiographical signs of pulp or periapical pathology, but with exposed pulp.  Symptomatic or asymptomatic teeth after clinical and radiographical examination, with norma pulp or reversible pulpitis.  Asymptomatic restorable teeth with no clinical and radiographic signs of pulp or periapical pathology to perform vital or devitalization pulpotomy. If radiolucency observed periapical pathology to perform vital or devitalization pulpotomy. If radiolucency observed periapically, non-vital pulpotomy recommended.  Spontaneous or persistent pain or absence of pain; tooth with extensive caries lesion or unsatisfactory restoration associated with signs and symptoms of irreversible pulpitis; severe bleeding with altered colouration (no longer bright red) that does not stop after a few minutes during coronal opening. Clinically can be presence of fistula, deema or abscess: radiographycally can be apical/periapical radiolucency. Contraindicated if patient has systemic condition (immunocompromised, pre or post-transplant, or with risk of infectious endocarditis).  Symptoms of irreversible pulpitis  Children, year 8 and under at school, or pre-schoolers under five years of age, with intact roots. Severe infections associated with primary teet do not respond well to pulpocasions, although rare, where a pulpectomy is required on a deciduous second	for pulpotomy. Fill pulp chamber with suitable base and seal tools from microleakage with restoration. Use amaigam or composite resis for teeth with a lifespan of two years or less and sufficient enamed support. Use stairless steel crown for multisurface lesions for teeth with a lifespan of two years or less and sufficient enamed support. Use stairless steel crown for multisurface lesions for teeth with a life support of the control of t	quality evidence for FS, and laser, very low- quality evidence for NaOCI and tricalcium silicate, low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA,  Not stated  Level 1 - evidence from RCT  Level Ia and Ib - Evidence is available from meta  Not stated  Not stated  Not stated  Not stated	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCI and tricalcium silicate; conditional recommendation to NOT to ucalcium hydroxide.  Not stated  recommended, based on good quality studies. In interventions: systematic reviews of randomised clinical trials, randomised clinical trials, other systematic reviews with or without metals.  Grades A and B  Not stated  Not stated
201 201 201 201 201 201	Clinical practice guidel	Italy  Chile  UK  UK  UK  UK  UK  UK  UK  UK  UK	Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Guía Clínica Urgencias Odontológicas Ambulatorias. Ministerio de Salud, Gobierno de Chile, 2011.  Rodd HD, Waterhouse PJ, Fuks AB, et al. Pulp therapy for primary molars. Int J Paediatr Dent 2006; 16 Suppl 1: 15–23.  Carrotte P. Endodontic treatment for children. Br  Laura Guimarães Primo et al. Protocolo De Pulpectomia Para Dentes Decíduos: Um Guia Clínico E Prático Baseado Em Evidências Científicas, 2022  Duggal M, Gizani S, Albadri S, et al. Best clinical practice guidance for treating deep carious lesions in primary testr: an EAPD policy document. Eur Arch Paediatr Dent 2022; 23: 659–666.  Ministry of Health New Zealand. Combined Dentalth Services for Adolescents and Special Dental Services for Adolescents and Special Dental Services for Children and Adolescents. Ministry of Health New Zealand, 2022.  IAPD. IAPD Foundational Articles and Consensus Recommendations: Pulp Therapy for Primary and Young Permanent Teeth. IAPD, 2022.	Asymptomatic restorable teeth with no clinical and radiographical signs of pulp or periapical pathology, but with exposed pulp.  Symptomatic or asymptomatic teeth after clinical and radiographical examination, with norma pulp or reversible pulpitis.  Asymptomatic restorable teeth with no clinical and radiographic signs of pulp or periapical pathology to perform vital or devitalization pulpotomy. If radiolucency observed periapically, non-vital pulpotomy recommended.  Spontaneous or persistent pain or absence of pain; tooth that have suffered trauma with pulpal exposure, time interval greater than 24 hours; tooth with extensive caries lesion or unsatisfactory restoration associated with signs and symptoms of irreversible pulpits; severe bleeding with altered colouration (no longer bright red) that does not stop after a few minutes during cornoal opening. Clinically can be presence of fistula, edema or abscess; radiographycally can be apical/periapical radiolucency. Contraindicated if patient has systemic condition (immunocompromised, pre or post-transplant, or with risk of infectious endocarditis).  Symptoms of irreversible pulpitis  Children, year 8 and under at school, or pre-schoolers under five years of age, with intact roots. Severe infections associated with signs and the pulpedomy. There are occasions, although rare, where a pulpectomy is required on a deciduous second molar, in order to keep this tooth long term.  Symptoms of irreversible pulpitis presented in fection. Radiographically furcation/apicaradioudency, or evidence of intereardiperion can be observed; the roots should exhibit on the single pulpitis or periapical infection. Radiographically furcation/apicaradioudency, or evidence of intereardiperion can be observed; the roots adoud exhibit or periapical infection can be observed; the roots adoud exhibit or periapical infection can be observed; the roots adoud exhibit or periapical infection can be observed; the roots adoud exhibit or periapical infection can be observed; the roots and other peri	for pulpotomy. If a pulp charmer with suitable base and seal tools from microleakage with restoration. Use analysm or composite resist for teeth with a illespan of two years or less and sufficient enamel support. Use stairness steed crown for multisurface lesions from the third of the pulpotomy. MTA formocresol, FS, laser, NaOCI, tricalcium silicate can be used, but not calcium hydroxide.  Complete removal of carious tooth tissue must precede pulp chamber opening to avoid bacterial contamination. During operating procedures dealgred to remove pulp from the chamber, it is important to use abstracts registant to avoid damaging or overheating observable to the control of the chamber and the control of the chamber pulp is amputated and the roof pulp is dentitiated, with the aim of removing all infected or inflamed tissue while maintaining the root pulp. Formocresol, MTA, ferris sulphate or a layer of pure calcium hydroxide can be used for this purpose. FC but to too properties can be replaced by MTA or fortic sulphate or a layer of pure calcium hydroxide can be used for this purpose. FC but to too properties can be replaced by MTA or fortic sulphate whole discreasing the intellect of successful treatment or FC can be discled (3 8% formaticity)et. 7% cressol, 63% sylveries in 100 mt water) and the exposure time not pulp stamps should be recloaded to less than 5 minutes.  The pulphane of the pulphane of the pulphane of the control of the set than 5 minutes.  The pulphane of the pulphane of the control of the set than 5 minutes.  The pulphane of the pulphane of the pulphane of the calcium by the object of the control of the set pulphane of the pulphane of the control of the set pulphane of the control of the set pulphane of the control of the set pulphane of the control of the co	quality evidence for FS, and laser, very low-quality evidence for NaOCl and tricalcium silicate, low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA,  Not stated  Level 1 - evidence from RCT  Level Ia and Ib - Evidence is available from meta  Not stated  Not stated  Not stated  Not stated	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCl and tricalcium silicate; conditional recommendation to NOT to u calcium hydroxide.  Not stated  recommended, based on good quality studies. In interventions: systematic reviews of randomised clinical trials, randomised clinical trials, other systematic reviews with or without met  a Grades A and B  Not stated  Not stated  Not stated
201 201 201 201 201 201 201 201 201	Clinical practice guidel	Italy  Chile  UK  UK  UK  UK  UK  UK  UK  UK  UK	Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Guía Clínica Urgencias Odontológicas Ambulatorias. Ministerio de Salud, Gobierno de Chile, 2011.  Rodd HD, Waterhouse PJ, Fuks AB, et al. Pulp therapy for primary molars. Int J Paediatr Dent 2006; 16 Suppl 1: 15–23.  Carrotte P. Endodontic treatment for children. Br  Laura Guimarães Primo et al. Protocolo De Pulpectomia Para Dentes Decíduos: Um Guia Clínico E Prático Baseado Em Evidências Científicas, 2022  Duggal M, Gizani S, Albadri S, et al. Best clinical practice guidance for treating deep carious lesions in primary testr: an EAPD policy document. Eur Arch Paediatr Dent 2022; 23: 659–666.  Ministry of Health New Zealand. Combined Dentalth Services for Adolescents and Special Dental Services for Adolescents and Special Dental Services for Children and Adolescents. Ministry of Health New Zealand, 2022.  IAPD. IAPD Foundational Articles and Consensus Recommendations: Pulp Therapy for Primary and Young Permanent Teeth. IAPD, 2022.	Asymptomatic restorable teeth with no clinical and radiographical signs of pulp or periapical pathology, but with exposed pulp.  Symptomatic or asymptomatic teeth after clinical and radiographical examination, with norma pulp or reversible pulpitis.  Asymptomatic restorable teeth with no clinical and radiographic signs of pulp or periapical pathology to perform vital or devitalization pulpotomy. If radiolucency observed periapically pathology to perform vital or devitalization pulpotomy. If radiolucency observed periapically, non-vital pulpotomy recommended.  Spontaneous or persistent pain or absence of pain; tooth that have suffered trauma with pulpal exposure, time interval greater than 24 hours; tooth with extensive caries lesion or unsatisfactory restoration associated with signs and symptoms of irreversible pulpitis, severe beeding with aftered colouration (no longer bright red) that does not stop after a few minuted during coronal opening. Clinically can be presence of fistula, edema or abscass; radiographycally can be paically-periapical radioticency. Contraindicated if patient has systemic condition (immunocompromised, pre or post-transplant, or with risk of infectious endocarditis).  Symptoms of irreversible pulpitis  Children, year 8 and under at school, or pre-schoolers under five years of age, with intact roots. Severe infections associated with primary teeth do not respond well to pulpectomy. Three are occasions, although rare, where a pulpectomy is required on a deciduous second molar, in order to keep this tooth long term.  Symptoms of irreversible pulpitis, restorable tooth, apical/furcational radiolucency, internal/external root resorption, clinically can observe sinus tract, fistula.	for pulpotomy. Fill pulp character with suitable base and seal tools from microleakage with restoration. Use amalgam or composite resin for teeth with a lifespan of two years or less and sufficient ename support. Use stainness steed crown for multiautiface feeling resin for teeth with a lifespan of two years or less and sufficient enames support. Use stainness steed crown for multiautiface leeting from the character of the pulp of the	quality evidence for FS, and laser, very low- quality evidence for NaOCI and tricalcium silicate, low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA,  Not stated  Level 1 - evidence from RCT  Level Ia and Ib - Evidence is available from meta  Not stated  Not stated  Not stated  Not stated  Not stated	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCl and tricalcium silicate; conditional recommendation to NOT to u calcium hydroxide.  Not stated  recommended, based on good quality studies. In interventions: systematic reviews of randomised clinical trials, randomised clinical trials, other systematic reviews with or without met  a Grades A and B  Not stated  Not stated  Not stated
201 201 201 201 201 201 201 201 201	Clinical practice guidel	lii USA  Italy  Italy  Italy  UK  UK  UK  UK  Italy  Italy	Primary Teeth with Deep Caries Lesions  Cherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Guía Clínica Urgencias Odontológicas Ambulatorias. Ministerio de Salud, Gobierno de Chile, 2011.  Rodd HD, Waterhouse PJ, Fuks AB, et al. Pulp therapy for primary molars. Int J Paediatr Dent 2006; 16 Suppl 1: 15–23.  Carrotte P. Endodontic treatment for children. Br. Ministry of Health New Zealand. Combined Dental Agreement: Operation Guidelines for Oral Health Services for Acholescents and Special Dental Services for Acholescents and Services for	Asymptomatic restorable teeth with no clinical and radiographical signs of pulp or periapical pathology, but with exposed pulp.  Symptomatic or asymptomatic teeth after clinical and radiographical examination, with norma pulp or reversible pulpitis.  Asymptomatic restorable teeth with no clinical and radiographic signs of pulp or periapical pathology to perform tital or devitalization pulpotomy. If radiolucency observed periapically, non-vital pulpotomy recommended.  Spontaneous or persistent pain or absence of pain; tooth that have suffered trauma with pulpal exposure, time interval greater than 24 hours; tooth with extensive caries lesion or unsatisfactory restoration associated with signs and symptoms of irreversible pulpits; severe bleeding with altered colouration (no longer bright red) that does not stop after a few minuted during coronal opening. Clinically can be presence of fistule, edema or abscess; radiographycally can be paically-geriapical radioticency. Contraindicated if patient has systemic condition (immunocompromised, pre or post-transplant, or with risk of infectious endocarditis).  Symptoms of irreversible pulpitis  Children, year 8 and under at school, or pre-schoolers under five years of age, with intact roots. Severe infections associated with primary teeth do not respond well to pulpectomy. Symptoms of irreversible pulpits can be presented to the primary teeth do not respond well to pulpectomy. Symptoms of irreversible pulpits or periapical infection. Radiographically furcation/apica radiolucency, or evidence or internal/external resortion. Radiographically furcation/apica radiolucency, or evidence or internal/external root resorption, clinically can observe sinus tract, fistula.	for pubsicionny. Till pulp character with suitable base and seal tooth from microleakage with restoration. Live amangamen or composite resent for teach with a illeopan of two years or less and sufficient enamel support. Use stairiess atted crown for multisurface lesions resent for teach with a illeopan of two years or less and sufficient enamel support. Use stairiess atted crown for multisurface lesions from the character of the property of the control of the control of serious both issues must proceed pulp character opening to avoid bacterial currantivation. During openating one of the character of the proposal of the control of the character of the proposal of the control of the character of	quality evidence for FS, and laser, very low- quality evidence for NaOCI and tricalcium silicate, low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA,  Not stated  Level 1 - evidence from RCT  Level Ia and Ib - Evidence is available from meta  Not stated  Not stated  Not stated  Not stated  Not stated	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCl and tricalcium silicate; conditional recommendation to NOT to ucalcium hydroxide.  Not stated  recommended, based on good quality studies. In interventions: systematic reviews of randomised clinical trials, randomised clinical trials, other systematic reviews with or without me  as Grades A and B  Not stated  Not stated  Not stated  Not stated
200 200 200 200 200 200 200 200 200 200	Clinical practice guidel	Italy	Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Guia Clinica Urgencias Odontológicas Ambulatorias. Ministerio de Salud, Gobierno de Chile, 2011.  Rodd HD, Waterhouse PJ, Fuks AB, et al. Pulp therapy for primary molars. Int J Paediatr Dent 2006; 16 Suppl 1: 15–23.  Carrotte P. Endodontic treatment for children. Br Urgencias Guidance for treating deep carious lesions in primary teeth: an EAPD policy document. Guidance for treating deep carious lesions in primary teeth: an EAPD policy document. Guidance for Children and Adolescents. Ministry of Health New Zealand. Combined Dental Agreement: Operation Guidelines for Oral Health Services for Adolescents and Special Dental Services for Children and Adolescents. Ministry of Health New Zealand, 2022.  IAPD. IAPD Foundational Articles and Consensus Recommendations: Pulp Therapy for Primary and Young Permanent Teeth. IAPD, 2022.  American Academy of Pediatric Dentistry. Pulp Therapy for Primary and Immature Permanent Teeth. The Reference Manual Of Pediatric Dentistry 2020; 40: 343–351.  Gherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Glinical Urgencias Odontológicas	Asymptomatic restorable teeth with no clinical and radiographical signs of pulp or periapical pathology, but with exposed pulp.  Symptomatic or asymptomatic teeth after clinical and radiographical examination, with normal pulp or reversible pulpitis.  Asymptomatic restorable teeth with no clinical and radiographical examination, with normal pulp or reversible pulpitis.  Symptoms of irreversible pulpitis, but no clinical and radiographic signs of pulp or periapical pathology to perform vital or devitalization pulpotomy. If radiolucency observed periapically, non-vital pulpotomy recommended.  Spontaneous or persistent pain or absence of pain; tooth that have suffered trauma with pulpial exposure, time interval greater than 24 hours; tooth with extensive caries lesion or unsatisfactory restoration associated with signs and symptoms of irreversible pulpitis; severe beeding with affect oclouration (to longer bright red) that does not sop after a few minutes during coronal opening. Clinically can be presence of fistula, edema or abscess; adiographycally can be apical/periapical radiolucency. Contraindicated if patient has systemic condition (immunocompromised, pre or post-transplant, or with risk of infectious endocarditis).  Symptoms of irreversible pulpitis.  Children, year 8 and under at school, or pre-schoolers under five years of age, with intact toots. Severe infections associated with primary teeth do not respond well to pulpectomy. There are accasions, although rare, where a pulpectomy is required on a deciduous second molar, in order to kaep this tooth long term.  Symptoms of irreversible pulpitis, restorable tooth, apical/furcational radiolucency, internal/external resorption can be observed; the roots should exhibit minimal or no resorption. Clinically could be a sinus tract, soft tissue inflammation not resulting from gingivitis or perialcally could be a sinus tract, soft tissue inflammation not resulting from gingivitis or perialcally pulpin pulpin pulpitis proteins and pulpin pulpin pulpitis pulpitis or	ire pulpotomy. Pil pulp chambre with subable base and seal tools from microeleatage with restoration. Use analization composite resin for teeth with a lifegam of law oyears or less and sufficient enamel support. Use slainless steel crown for millisurface lesions rein for teeth with a lifegam of law oyears or less and sufficient enamel support. Use slainless steel crown for millisurface lesions rein for teeth with a lifegam of the control of carries and the steel of the control of carries and the steel of the control of carries and the steel of the control of carries and the control of carries and the steel of the control of carries and carries an	Not stated quality evidence for FS, and laser, very low- quality evidence for NaOCI and tricalcium silicate low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA,  Not stated  Level 1 - evidence from RCT  Level Ia and Ib - Evidence is available from meta  Not stated	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCI and tricalcium silicate; conditional recommendation to NOT to use calcium hydroxide.  Not stated  recommended, based on good quality studies. In interventions: systematic reviews of randomised clinical trials, randomised clinical trials, other systematic reviews with or without met  at Grades A and B  Not stated  Not stated  Not stated  Not stated
200 200 200 200 200 200 200 200 200 200	Clinical practice guidel	Italy	Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Gula Clinica Urgencias Odontológicas Ambudatorias. Ministerio de Salud, Gobierno de Chile, 2011.  Rodd HD, Waterhouse PJ, Fuks AB, et al. Pulp therapy for primary molars. Int J Paediatr Dent 2006; 16 Suppl 1: 15–23.  Carrotte P. Endodontic treatment for children. Br Carrotte P. Endodontic treatment for children and continuation for children and children for Craft for Children and Adolescents. Ministry of Health New Zealand. Combined Dental Services for Children and Adolescents. Ministry of Health New Zealand, 2022.  IAPD. IAPD Foundational Articles and Consensus Recommendations: Pulp Therapy for Primary and Immature premanent Teeth. IAPD, 2022.  IAPD. IAPD Foundational Articles and Consensus Recommendations: Pulp Therapy for Primary and Therapy for Primary and Primary and Immature Primary and Primary and Primary and Immature Primary and Primary a	Asymptomatic restorable teeth with no clinical and radiographical signs of pulp or periapical pathology, but with exposed pulp.  Symptomatic or asymptomatic teeth after clinical and radiographical examination, with norma pulp or reversible pulpitis.  Asymptomatic restorable teeth with no clinical and radiographic signs of pulp or periapical pathology to perform vital or devitalization pulpotomy. If radiolucency observed periapically, non-vital pulpotomy recommended.  Spontaneous or persistent pain or absence of pain; tooth that have suffered trauma with pulpal exposure, time interval greater than 24 hours; tooth with extensive caries lesion or unsalisfactory restoration associated with signs and symptoms of irreversible pulpitis; severe bleeding with aftered colcuration (no longer bright red) that does not stop after a few minuted during coronal opening. Clinically can be presence of fistual, edems or abscess; radiographycally can be apical/periapical radiolucency. Contraindicated if patient has systemic condition (immunocompromised, pre or post-transplant, or with risk of infectious endocarditis).  Symptoms of irreversible pulpitis.  Children, year 8 and under at school, or pre-schoolers under five years of age, with intact toots. Severe infections associated with primary teeth do not respond well to pulpectomy. There are occasions, although rare, where a pulpectomy is required on a deciduous second molar, in order to keep this tooth long term.  Symptoms of irreversible pulpitis, restorable tooth, apical/furcational radiolucency, internal ordernal root resorption, clinically can observe sinus tract, fistula.  Symptoms of irreversible pulpitis or periapical infection. Radiographically furcation/apicaradioulcency, or evidence or internal/getion. Clinically can observe sinus tract, fistula.  Symptoms of irreversible pulpitis or periapical infection. Radiographically furcation/apicaradioulcency, or evidence or internal/getion. Clinically clinically or periapical pulp. Radographically apicalgrapical radiolucency, c	for pulpotomy, Fili pulp chamber with suitable base and seal tooth from monoteakage with restoration. Use emailingan or composite rigan for feeth with a filiappeor of two years or less and sufficient enemal support. Use startees steel crown for multisurface leateness from the filiappeor of the pulpotomy of the pulpotomy of the pulpotomy. MTA, formocreacl, FS, laser, NaOCL tricacium silicate can be used, but not calcium hydroide.  Complete removal of caricas tooth lissue must precode pulp chamber opering to avoid bacterial conformation. During operating procedures designed to remove pulp from the chamber, it is important to use alturation integration to avoid dramaging or overheading role globe. Any bleeding from root operage must also sportaneously within four mixtures at most. The rest step is to position the closer marketing MTA. Portland content or calcium hydroides (less recommended), construct a provisional relational and started profits of the content or profits and the content or profits and the content of the content or profits and the content or pro	Not stated quality evidence for FS, and laser, very low- quality evidence for NaOCI and tricalcium silicate low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA,  Not stated  Level 1 - evidence from RCT  Level Ia and Ib - Evidence is available from meta  Not stated	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCl and tricalcium silicate; conditional recommendation to NOT to us calcium hydroxide.  Not stated  recommended, based on good quality studies. In interventions: systematic reviews of randomised clinical trials, randomised clinical trials, other systematic reviews with or without met  Again and B  Not stated  Rot stated  Not stated
200 200 200 200 200 200 200 200 200 200	Clinical practice guidel	Italy	Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Gula Clinica Urgencias Odontológicas Ambudatorias. Ministerio de Salud, Gobierno de Chile, 2011.  Rodd HD, Waterhouse PJ, Fuks AB, et al. Pulp therapy for primary molars. Int J Paediatr Dent 2006; 16 Suppl 1: 15–23.  Carrotte P. Endodontic treatment for children. Br Carrotte P. Endodontic treatment for children and continuation for children and children for Craft for Children and Adolescents. Ministry of Health New Zealand. Combined Dental Services for Children and Adolescents. Ministry of Health New Zealand, 2022.  IAPD. IAPD Foundational Articles and Consensus Recommendations: Pulp Therapy for Primary and Immature premanent Teeth. IAPD, 2022.  IAPD. IAPD Foundational Articles and Consensus Recommendations: Pulp Therapy for Primary and Therapy for Primary and Primary and Immature Primary and Primary and Primary and Immature Primary and Primary a	Asymptomatic restorable teeth with no clinical and radiographical signs of pulp or periapical pathology, but with exposed pulp.  Symptomatic or asymptomatic teeth after clinical and radiographical examination, with norma pulp or reversible pulpitis.  Asymptomatic restorable teeth with no clinical and radiographic signs of pulp or periapical pathology to perform vital or devitalization pulpotomy. If radiolucency observed periapically, non-vital pulpotomy recommended.  Spontaneous or persistent pain or absence of pain; tooth that have suffered trauma with pulpal exposure, time interval greater than 24 hours; tooth with extensive caries lesion or unsalisfactory restoration associated with signs and symptoms of irreversible pulpitis; severe bleeding with aftered colcuration (no longer bright red) that does not stop after a few minuted during coronal opening. Clinically can be presence of fistual, edems or abscess; radiographycally can be apical/periapical radiolucency. Contraindicated if patient has systemic condition (immunocompromised, pre or post-transplant, or with risk of infectious endocarditis).  Symptoms of irreversible pulpitis.  Children, year 8 and under at school, or pre-schoolers under five years of age, with intact toots. Severe infections associated with primary teeth do not respond well to pulpectomy. There are occasions, although rare, where a pulpectomy is required on a deciduous second molar, in order to keep this tooth long term.  Symptoms of irreversible pulpitis, restorable tooth, apical/furcational radiolucency, internal ordernal root resorption, clinically can observe sinus tract, fistula.  Symptoms of irreversible pulpitis or periapical infection. Radiographically furcation/apicaradioulcency, or evidence or internal/getion. Clinically can observe sinus tract, fistula.  Symptoms of irreversible pulpitis or periapical infection. Radiographically furcation/apicaradioulcency, or evidence or internal/getion. Clinically clinically or periapical pulp. Radographically apicalgrapical radiolucency, c	for pulpotomy, Fili pulp chamber with suitable base and seal tooth from monoteakage with restoration. Use emailingan or composite rigan for feeth with a filiappeor of two years or less and sufficient enemal support. Use startees steel crown for multisurface leateness from the filiappeor of the pulpotomy of the pulpotomy of the pulpotomy. MTA, formocreacl, FS, laser, NaOCL tricacium silicate can be used, but not calcium hydroide.  Complete removal of caricas tooth lissue must precode pulp chamber opering to avoid bacterial conformation. During operating procedures designed to remove pulp from the chamber, it is important to use alturation integration to avoid dramaging or overheading role globe. Any bleeding from root operage must also sportaneously within four mixtures at most. The rest step is to position the closer marketing MTA. Portland content or calcium hydroides (less recommended), construct a provisional relational and started profits of the content or profits and the content or profits and the content of the content or profits and the content or pro	Not stated quality evidence for FS, and laser, very low-quality evidence for NaCCI and tricalcium silicate; low-quality evidence to NOT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA.  Not stated  Level 1 - evidence from RCT  Level la and Ib - Evidence is available from metals.  Not stated  Not stated.	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCl and tricalcium silicate; conditional recommendation to NOT to us calcium hydroxide.  Not stated  recommended, based on good quality studies. In interventions: systematic reviews of randomised clinical trials, randomised clinical trials, other systematic reviews with or without met  Again and B  Not stated  Rot stated  Not stated
	Clinical practice guidel	Italy	Primary Teeth with Deep Caries Lesions  Gherlone E, Allegrini S, Annibali S, et al. Clinical recommendations in odontostomatology. Ministry of Health, Italy, 2017.  Villanueva JM, Araneda L, Moreno JV, et al. Gula Clinica Urgencias Odontológicas Ambudatorias. Ministerio de Salud, Gobierno de Chile, 2011.  Rodd HD, Waterhouse PJ, Fuks AB, et al. Pulp therapy for primary molars. Int J Paediatr Dent 2006; 16 Suppl 1: 15–23.  Carrotte P. Endodontic treatment for children. Br Carrotte P. Endodontic treatment for children and continuation for children and children for Craft for Children and Adolescents. Ministry of Health New Zealand. Combined Dental Services for Children and Adolescents. Ministry of Health New Zealand, 2022.  IAPD. IAPD Foundational Articles and Consensus Recommendations: Pulp Therapy for Primary and Immature premanent Teeth. IAPD, 2022.  IAPD. IAPD Foundational Articles and Consensus Recommendations: Pulp Therapy for Primary and Therapy for Primary and Primary and Immature Primary and Primary and Primary and Immature Primary and Primary a	Asymptomatic restorable teeth with no clinical and radiographical signs of pulp or periapical pathology, but with exposed pulp.  Symptomatic or asymptomatic teeth after clinical and radiographical examination, with norma pulp or reversible pulpitis.  Asymptomatic restorable teeth with no clinical and radiographic signs of pulp or periapical pathology to perform vital or devitalization pulpotomy. If radiotucency observed periapically pathology to perform vital or devitalization pulpotomy. If radiotucency observed periapically non-vital pulpotomy recommended.  Spontaneous or persistent pain or absence of pain, tooth that have suffered trauma with pulpal apposure, time interval greater than 24 hours; tooth with advance carios session or exceeded the periapical pathology with altered colorazion (no longer bright red) that does not stop after a fave minuted during cornal opening. Clinically some be presence of faths, define or absences: radiographycally can be apical/periapical radiotucency. Contraindicated if patient has systemic condition (immunocompromised, pre or post-transplant, or with risk of infectious endocarditis).  Symptoms of irroversible pulpitis  Children, year 8 and under at school, or pre-achoolers under five years of age, with intact roots. Severo infections associated with primary teeth do not respond well to pulpoctomy. There are occasions, although rare, where a pulpedenmy is required on a deciduous second molar, in order to keep this tooth long term.  Symptoms of irreversible pulpitis, restorable tooth, apical/furcational radiotucency, internal waternal restoration can be observed; the roots should exhibit minimal or no resorption. Clinically can observe since for an associated by percussion and molar, in order to keep this tooth long term.  Restorable tooth, symptoms of irreversible pulpitis or periapical infection. Radiographically furcation/apica radiotucency, clinically can observe since for point picture. Packed the roots should exhibit minimal or no resorption. Clinically can be serve sinc	for publicity. Fill pair demander with stateble base and scal stort from microslauge with netocration, be amalgam or composition for interest to be sent with a fillegam of two years or less and sufficient ensured support. Use stainless steel coron for multisurface services in the test with a fillegam of two years or less and sufficient ensured support. Use stainless steel coron for multisurface services are supported to the support of th	Not stated  quality evidence for FS, and laser, very low-quality evidence for NaCCI and tricalcium silicate. low-quality evidence to NCT to use calcium hydroxide. The systematic review suggests that the overall success rate at 24 months for MTA.  Not stated  Level 1 - evidence from RCT  Level 1a and Ib - Evidence is available from metalism.  Not stated  Not stated	medicaments - conditional recommendation.  MTA and FC, but conditional for FS, laser, NaOCI and tricalcium silicate; conditional recommendation to NOT to us calcium hydroxide.  Not stated  recommended, based on good quality studies. In interventions: systematic reviews of randomised clinical trials, other systematic reviews with or without metal trials, other systematic reviews with or without metal trials, other systematic reviews with or without metal trials.  Not stated  Oracle B - Recommendation based on moderate quality moderate quality and the stated sales.

	2005 Review	UK	Carrotte P. Endodontic treatment for children. Br	Symptoms of irreversible pulpitis or apical/periapical radiolucency.	If the radicular pulp is found to be irreversibly inflamed a one-stage technique may be undertaken: the root canals are identified and instrumented to the working length estimated from a pre-operative radiograph; after drying the canals with paper points, formocresol is applied for up to 5 minutes; the root canals are then filled with a thin mix of zinc oxide—eugenol, using a rotary paste filler, and the restoration of the tooth is completed. If the radicular pulp is necrotic, a two-stage procedure is required: the root canals are again cleaned, shaped and irrigated to remove all necrotic debris; a pledget of cotton wool moistened with either formocresol or beechwood creosote is sealed in the pulp chamber with a rigid zinc oxide eugenol dressing for one week; at the subsequent visit the tooth should be symptom-free, firm, without a discharging sinus (if not, a second application of beechwood creosote is required); if the tooth is found to be symptomless, a dressing of zinc oxide—eugenol, with or without the addition of formocresol, is packed into the base of the chamber and the tooth finally restored.		Not stated
Lesion sterilization and tissue repair	2021 Consensus	International	IAPD. IAPD Foundational Articles and Consensus Recommendations: Pulp Therapy for Primary and Young Permanent Teeth. IAPD, 2022.	s d Restorable teeth with symptoms of irreversible pulpiti, or sinus tract, fistula; radiographically sapical/furcational radiolucency, internal/ external root resorption.	Disinfection of root canals with an antibiotic mixture (e.g., ciprofloxacin, metronidazole, and clindamycin).	Not stated	Not stated
	2020 Best Practices	USA	American Academy of Pediatric Dentistry. Pulp Therapy for Primary and Immature Permanent Teeth. The Reference Manual Of Pediatric Dentistry 2020; 40: 343–351.	Symptoms of irreversible pulpitis or necrosis or a tooth treatment planned for pulpotomy in which the radicular pulp exhibits clinical signs of irreversible pulpitis or pulp necrosis. Clinically a sinus tract, soft tissue inflammation not resulting from gingivitis or periodontitis, excessive mobility not associated with trauma or exfoliation can be observed. Radiographically furcation/apical radiolucency, or radiographic evidence of internal/external resorption.	After opening the pulp chamber of a necrotic tooth, the canal orifices are enlarged using a large round bur to create medication receptacles. The walls of the chamber are cleaned with phosphoric acid and then rinsed and dried. A three antibiotic mixture of clindamycin, metronidazole, and ciprofloxacin is combined with a liquid vector of polyethylene glycol and macrogol to form a paste placed directly into the medication receptables and over the pulpal floor.60 It then is covered with a glass-ionomer cement and restored with a stainless steel crown.	Not stated	Not stated
Extraction	2022	Brasil	Laura Guimarães Primo et al. Protocolo De Pulpectomia Para Dentes Decíduos: Um Guia Clínico E Prático Baseado Em Evidências Científicas, 2022	Clinically no symptoms or edema, fistula, abscess, or mobility; radiographically apical/periapical radiolucency, necrotic pulp. In cases of persistence of symptoms for more than 14 days: if after the second application of intracanal medication in necrotic pulp treatment, and there is no regression of signs and symptoms and the tooth continues with purulent exudate.	Space maintainer should be considered when the stage of development of the successor permanent tooth is equal to or less than 1/3 root formation.	Not stated	Not stated
	Clinical practice guidelines	Europe	Duggal M, Gizani S, Albadri S, et al. Best clinical practice guidance for treating deep carious lesions in primary teeth: an EAPD policy document. Eur Arch Paediatr Dent 2022; 23: 659–666.	Symptoms of irreversible pulpitis if other treatment is not indicated.	Not relevant	Not stated	Not stated
	Clinical practice guidelines		Ministry of Health New Zealand. Combined Dental Agreement: Operation Guidelines for Ora Health Services for Adolescents and Special Dental Services for Children and Adolescents. Ministry of Health New Zealand, 2022.	Children, year 8 and under at school, or pre-schoolers under five years of age, with intact roots. Severe infections associated with primary teeth do not respond well to pulpectomy. There are occasions, although rare, where a pulpectomy is required on a deciduous second molar, in order to keep this tooth long term.			
	2021 Consensus	International	IAPD. IAPD Foundational Articles and Consensus Recommendations: Pulp Therapy for Primary and Young Permanent Teeth. IAPD, 2022.		Not relevant	Not stated	Not stated
	Clinical practice guidelines	Dubai	Health Policies and Standards Department, Health Regulation Sector. Guidelines for Pediatri Dentistry. Dubai Health Authority; Government of Dubai, 2021.	All non-restorable teeth. Balanced extraction of anterior teeth especially canines must be considered.  Consideration of value of each involved tooth in relation to the child's overall development and	Extractions should be performed under GA. Sutures are advised after all extractions, surgicel can be used in combination with sutures in cases of persistent bleeding and/or children with coagulation disorders.	Not stated	Not stated
	2020 Best Practices	USA	American Academy of Pediatric Dentistry. Pulp Therapy for Primary and Immature Permanent Teeth. The Reference Manual Of Pediatric Dentistry 2020; 40: 343–351.	when infectious process cannot be arrested by the treatment methods. Clinically a sinus tract, soft tissue inflam- mation not resulting from gingivitis or periodontitis, excessive mobility not associated with trauma or exfoliation. Radiographically furcation/ apical radiolucency, or radiographic evidence of internal/ external resorption.	Not relevant	Not stated	Not stated
		Italy		Thorough diagnosis is necessary to establish whether the tooth must be avulsed if the conditions for performing correct endodontic treatment are not met. Not restorable, indications not clear.  Extraction of primary teeth is one of the treatment options in managing children with S-ECC	Not relevant	Not stated	Not stated
	Clinical practice 2012 guidelines	Malaysia		although the clinician should try to avoid dental extractions during the child's first visit. For teeth that are pulpally involved, the clinician may decide to conduct endodontic treatment or extraction. The decision to extract should only be made after considering both general factors (patient's cooperation, medical condition, dental infection - may increase patient's morbidity) and local factors (restorability, extent of caries which may involve the pulp and roots, potential for malocclusion of disturbances in development of the dentition - balancing and	Not relevant	Level III, Opinions or respected authorities, based on clinical experience; descriptive studies and case reports; or reports of expert committees	Not stated
	Clinical practice 2011 guidelines	Chile	Villanueva JM, Araneda L, Moreno JV, et al. Guía Clínica Urgencias Odontológicas Ambulatorias. Ministerio de Salud, Gobierno de Chile, 2011.	Restorable AND close to exfoliation or not restorable; emergencies (localised pain in the vestibular fundus, constant, severe, sustained, spontaneous, lancinating, pulsating type that increases with palpation in the vestibular fundus or in the palatine or lingual area. Sensation of a long tooth, which occludes earlier in the dental arch. Pain does not subside with NSAIDs. Asthenia, adynamia. Systemic involvement. Feverish sensation. Increase in volume. (described symptoms for each specific diagnosis); radiographically apical/periapical radiolucency.	As a result of pulp necrosis, there is an absence of irrigation in the pulp tissue, and for the same reason, in the tissues surrounding an abscess, antibiotics are not effective and are considered adjuvant therapy to dental and/or surgical treatment. Use CHX irrigation.	Level 3-4 (descriptive studies and expert opinions); for recommnedations of CHX rinse, level of evidence 1, grade of recommendation A.	Grade C - Recommendation based solely on expert opinion or low quality studie
	Clinical practice 2006 guidelines	UK		Medical factors: Patients at risk from residual infection (e.g. immunocompromised, susceptibility to infective endocarditis). Dental factors: Tooth close to exfoliation (>2/3 root resorption); contralateral tooth already lost (in the case of a first primary molar, and if indicated orthodontically), not restorable; the presence of any intra-oral swelling or sinus; a history of intra-oral or facial swelling; extensive internal root resorption; symptomatic large number of carious teeth with likely pulpal involvement (>3). Social factors: An irregular attender, with poor compliance and unfavourable parental attitudes.	Not relevant	Not stated	Not stated
	2005 Review	UK	Carrotte P. Endodontic treatment for children. Br	Grossly decayed teeth; not restorable even after pulp therapy; in teeth where caries has penetrated the floor of the pulp chamber; in teeth with advanced root resorption, or those close to exfoliation. Balanced extractions are rarely justified for primary incisors. The loss of a primary canine, however, may have a significant effect on the arch and balanced extractions should always be considered. Poporly cared for dentition requiring multiple treatments, the complex conservation of one tooth in the presence of a number of comparable teeth of doubtful prognosis is poor paediatric dentistry and should be avoided. Avoided wherever possible in certain groups of children; ie those with bleeding disorders, or medical conditions such as diabetes where general anaesthesia is contraindicated. Primary teeth should also be retained where a radiograph reveals the lack of a permanent successor.	Not relevant	Not stated	Not stated