

IMPLANTATBEHANDLING

– HVORNÅR GIVER DET MENING?

4. marts 2022

Milling Hotel Park, Middelfart, Danmark



IMPLANTATBEHANDLING

- HVORNÅR GIVER DET MENING?

Morten Dahl

Tandlæge, PhD, Uddannelsestandlæge i tand-, mund- og kæbekirurgi



Nordic Association for Disability and Oral Health
- the Danish section

4. marts 2022

Milling Hotel Park, Middelfart, Danmark





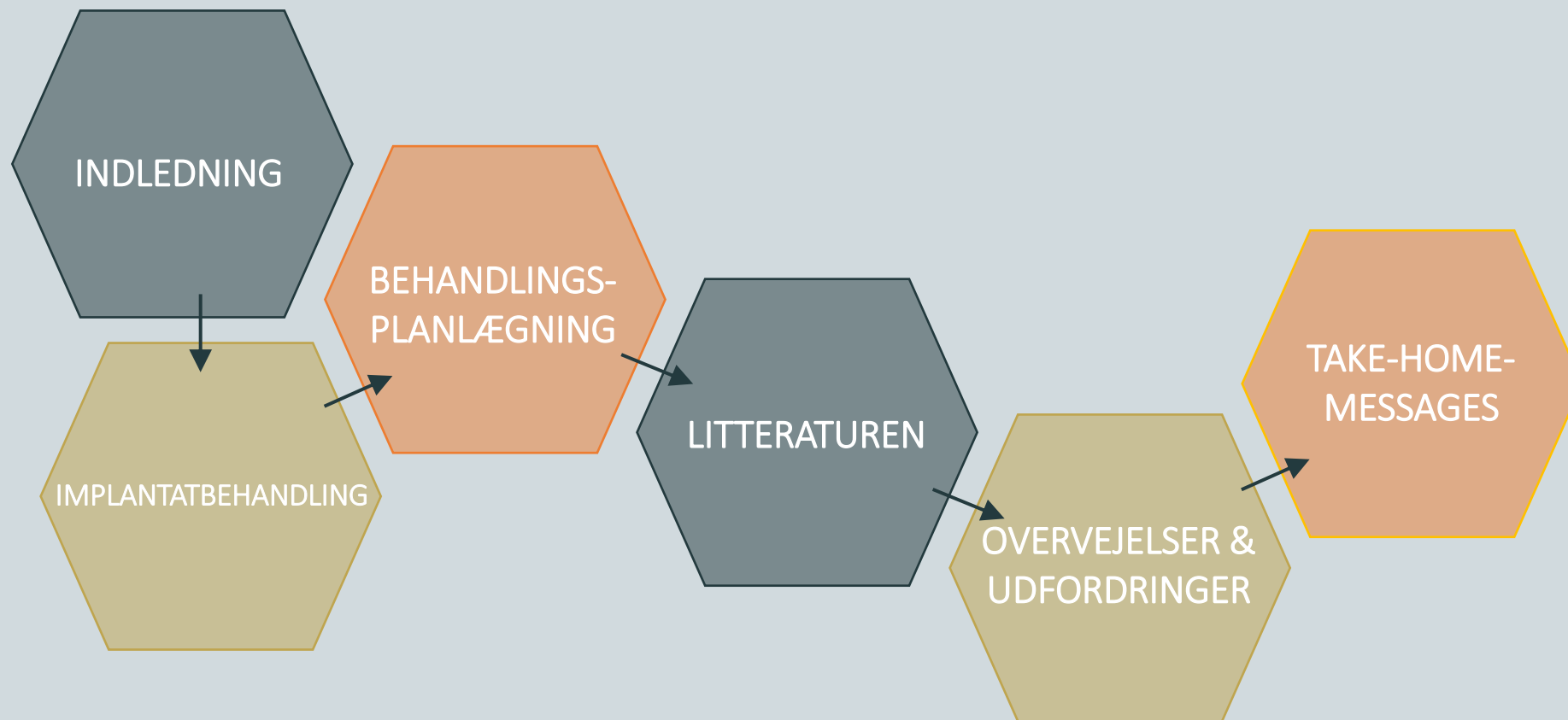
HVEM ER JEG?

Morten Dahl

Tandlæge, PhD, Uddannelsestandlæge i tand-, mund- og kæbekirurgi

- | | |
|------------|---|
| 2007-2013 | Cand.Odont fra Københavns Universitet |
| 2010-2011 | Scholarship, TMK Københavns Universitet |
| 2013-2016 | PhD fra Københavns Universitet |
| 2013-2014 | Kommunaltandpleje, Brøndby |
| 2014-2017 | Almen praksis, Frederiksberg og Østerbro |
| 2016-2017 | Saneringstandlæge, TMK Rigshospitalet |
| 2017-cont. | Videreuddannelsesstilling, TMK Rigshospitalet |
| 2018-cont. | Uddannelsestandlæge i henvisningspraksis |
| 2019-cont. | Forelæser på TMK, KU |
| 2020-cont. | Uddannelsestandlæge i Voksentandplejen |

IMPLANTATBEHANDLING



IMPLANTATBEHANDLING



INDLEDNING

INDLEDNING

- Årsag til tandmangel

- Erhvervet tandtab:

- Caries dentalis
- Parodontitis marginalis
- Parodontitis apicalis
- Traumer
- Resorptio dentis
- Ortodontia causa

- Medfødt tandmangel:

- Agenesesi

INDLEDNING

- Erstatning af manglende tænder

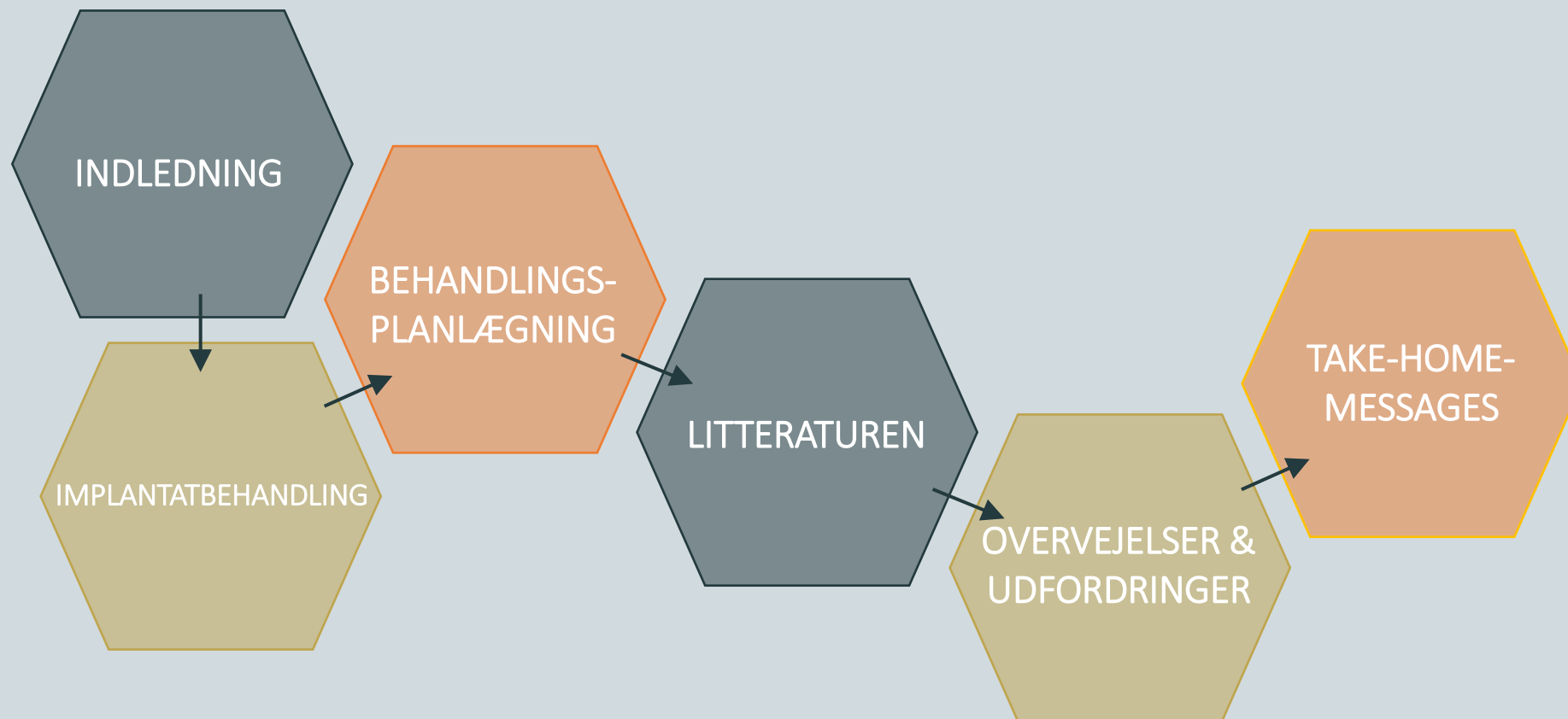
- Ingen behandling
- Autotransplantation
- Aftagelig protetik
- Brobehandling
- Implantatbehandling

INDLEDNING

- Patienten

- Fysisk og psykisk udfordrede patienter
- Ældre medborgere
- Patienter, der ikke kan tage vare på sig selv
- Medicinsk kompromitterede patienter

IMPLANTATBEHANDLING



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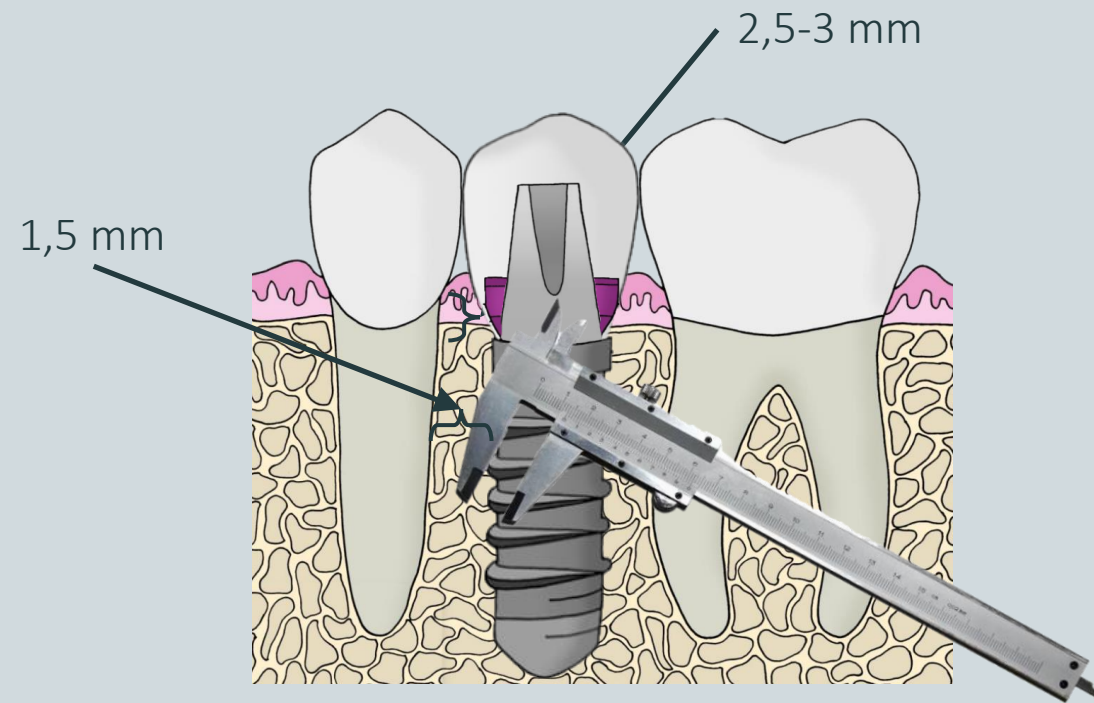


IMPLANTATBEHANDLING

IMPLANTATBEHANDLING

- Generelle krav

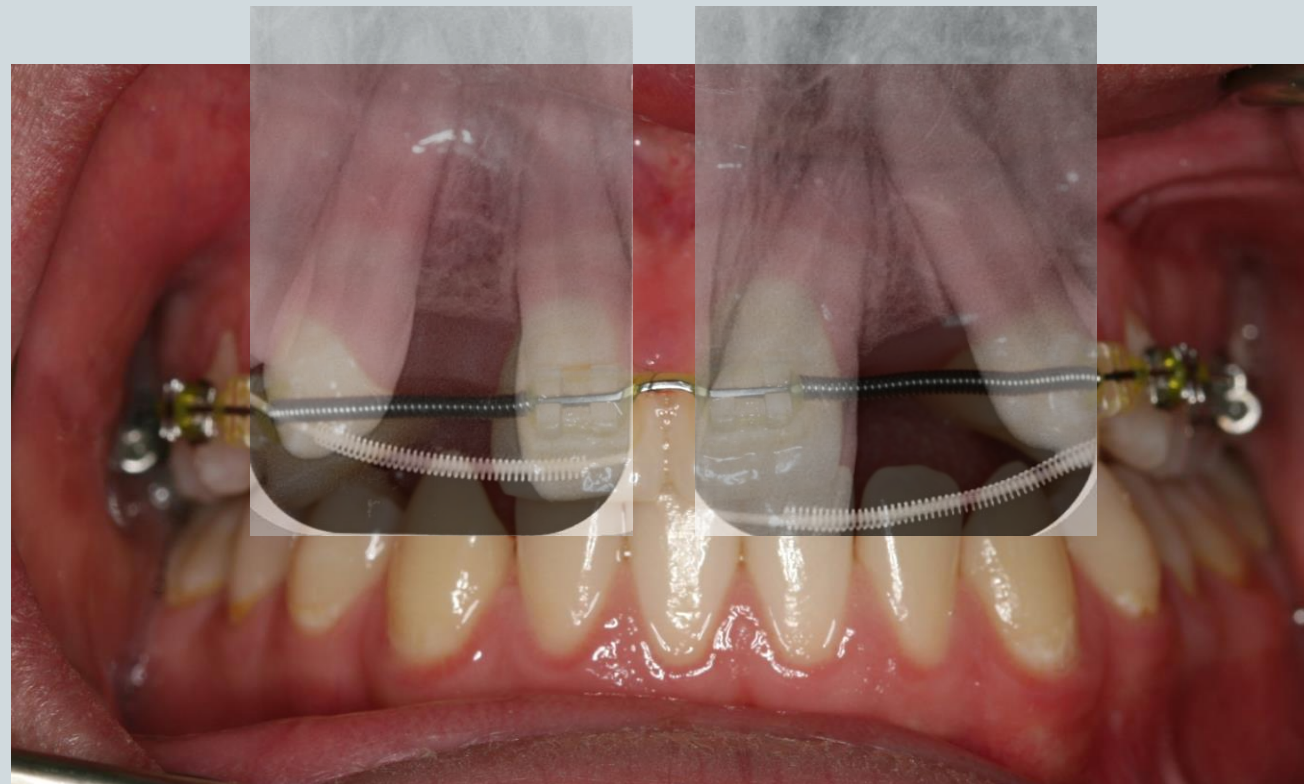
– Pladsforhold



IMPLANTATBEHANDLING

- Generelle krav

- Pladsforhold



IMPLANTATBEHANDLING

- Generelle krav

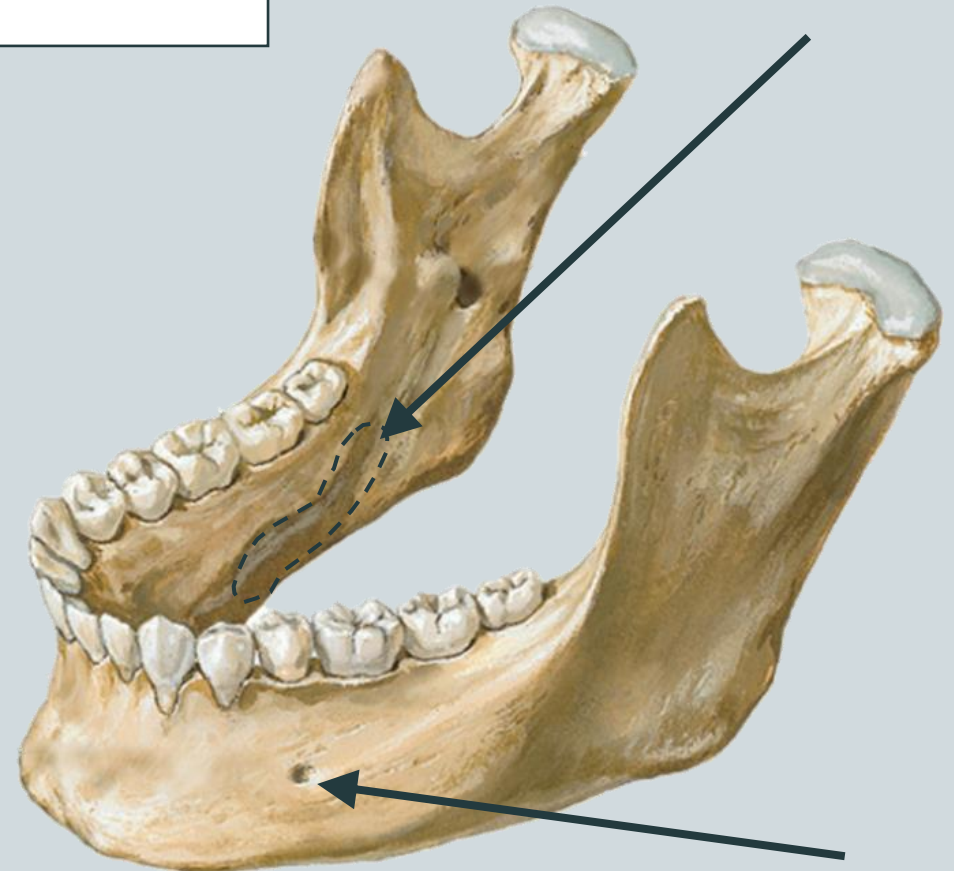
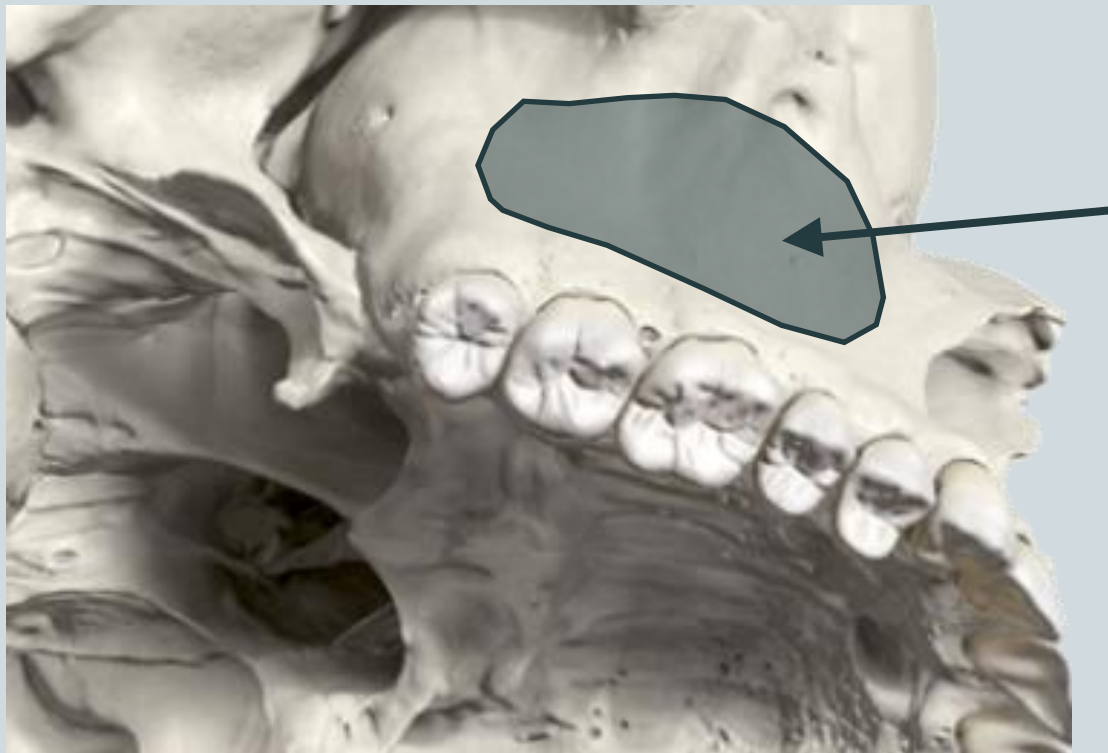
- Knogleforhold

- Implantatindsættelse med abutment uden behov for knogleopbygning
- Implantatindsættelse med abutment og supplerende knogleopbygning
- Implantatindsættelse med dækskrue og supplerende knogleopbygning
- Isoleret knogleopbygning

IMPLANTATBEHANDLING

- Generelle krav

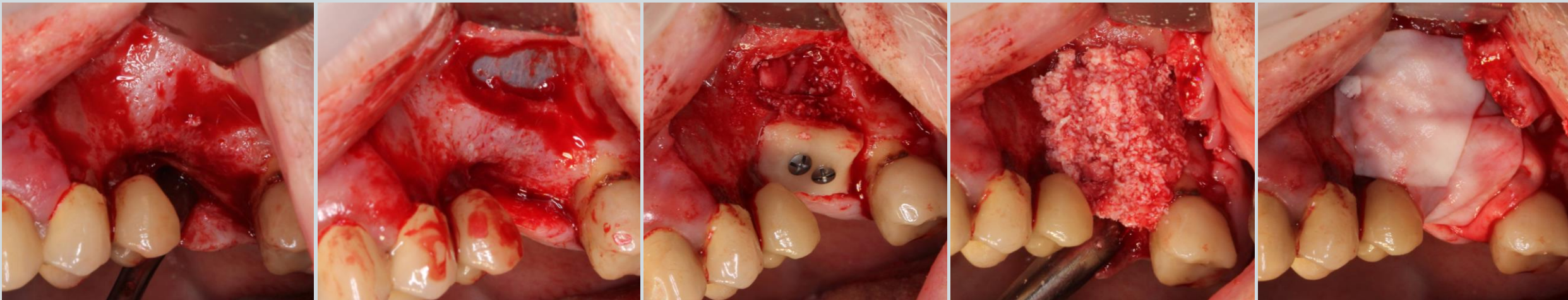
- Knogleforhold



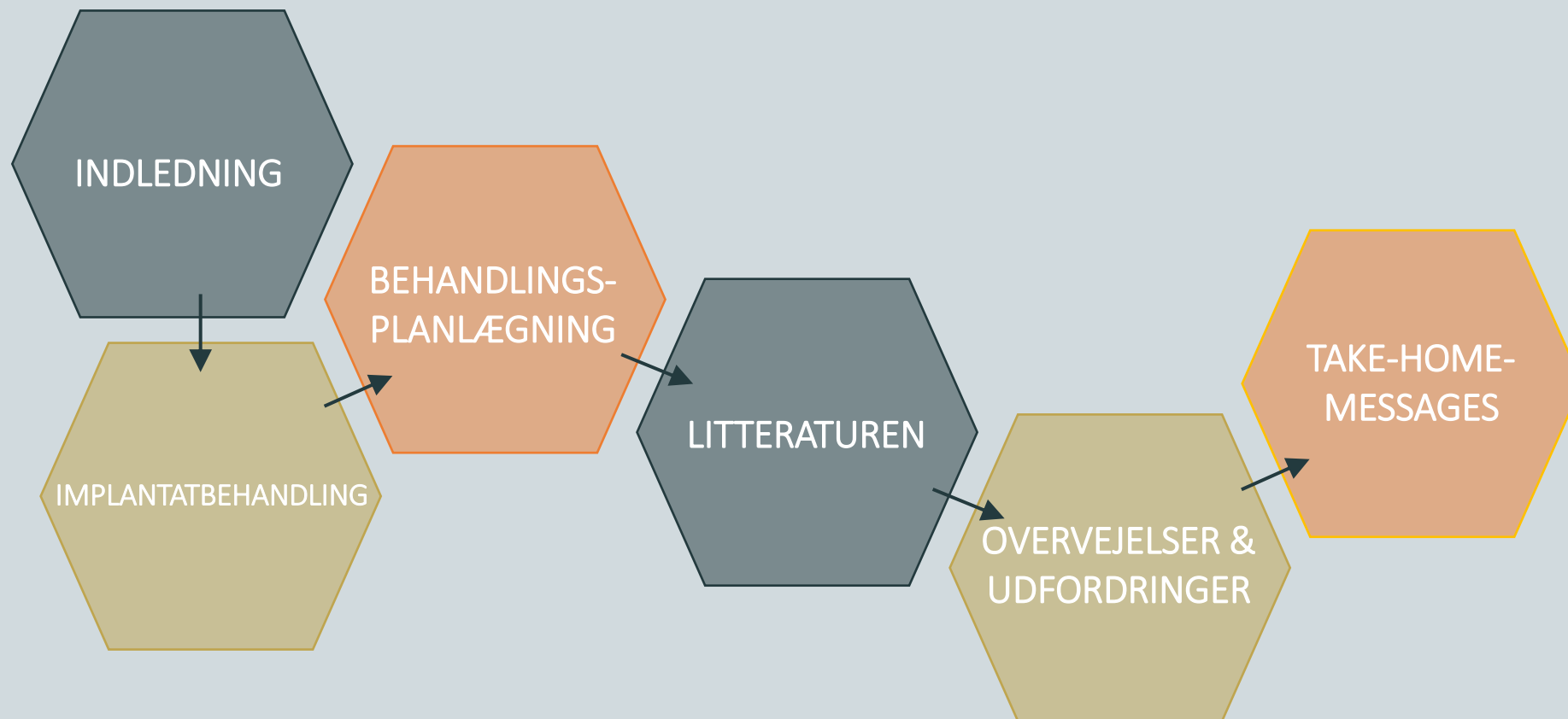
IMPLANTATBEHANDLING

- Generelle krav

- Knogleforhold



IMPLANTATBEHANDLING



IMPLANTATBEHANDLING

BEHANDLINGS-
PLANLÆGNING

BEHANDLINGSPLANLÆGNING

ANAMNESTISK

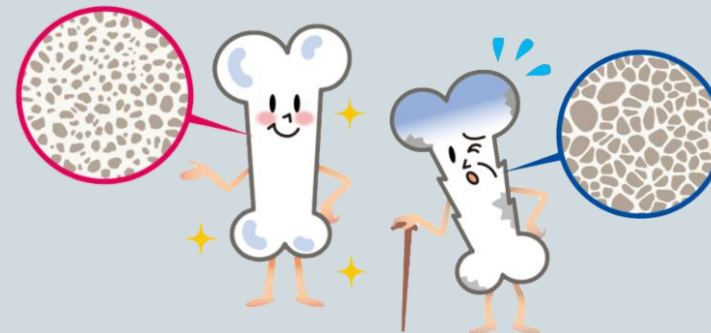
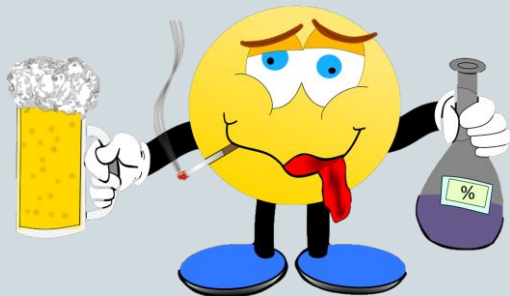
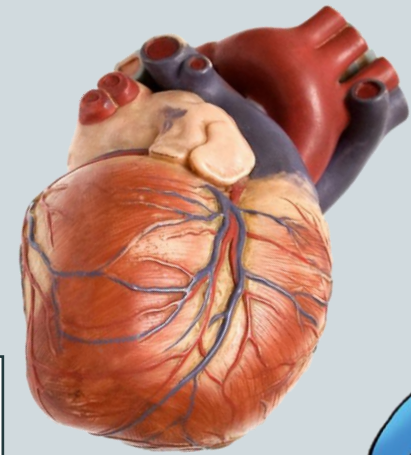
KLINISK

RADIOLOGISK

DIAGNOSE &
PLAN

ANAMNESTISK

- Allergier
- Alment helbred
- Medicin
- Rygning, alkohol, misbrug
- Subjektivt
- Plejebehovet



BEHANDLINGSPLANLÆGNING

ANAMNESTISK

KLINISK

RADIOLOGISK

DIAGNOSE &
PLAN

KLINISK

- Førstehåndsindtryk
 - Almen- og ernæringstilstand
 - Funktionsniveau og Kooperation
 - Vågen, klar og orienteret



KLINISK



- Facies / collum
 - Farver og temperatur
 - Hævelser
 - Lymfeknuder
 - Kæbeled
 - Facial fysionogmi (profil, en face)

KLINISK

- Cavum oris
 - Tandstatus og slimhinder
 - Mundhygiejne
 - Okklusion og bidfunktion
 - Plads- og knogleforhold
 - Funktion og æstetik



BEHANDLINGSPLANLÆGNING

ANAMNESTISK

KLINISK

RADIOLOGISK

DIAGNOSE &
PLAN

RADIOLOGISK

- Hvilken radiologisk undersøgelse skal vi benytte os af?
 - Intraoral periapikal røntgenoptagelse
 - Panorama Tomografi
 - Cone Beam Computer Tomografi (CBCT)



BEHANDLINGSPLANLÆGNING

ANAMNESTISK

KLINISK

RADIOLOGISK

DIAGNOSE &
PLAN

DIAGNOSE & PLAN



- Stille diagnose
- Behandlingsmuligheder
- Forventningsafstemning (funktionelt/æstetisk)
- Tværfagligt samarbejde
- Sværhedsgrad
- Operationsplan
- Information (fund, muligheder, anbefaling, risici)
- Samtykke

BEHANDLINGSPLANLÆGNING

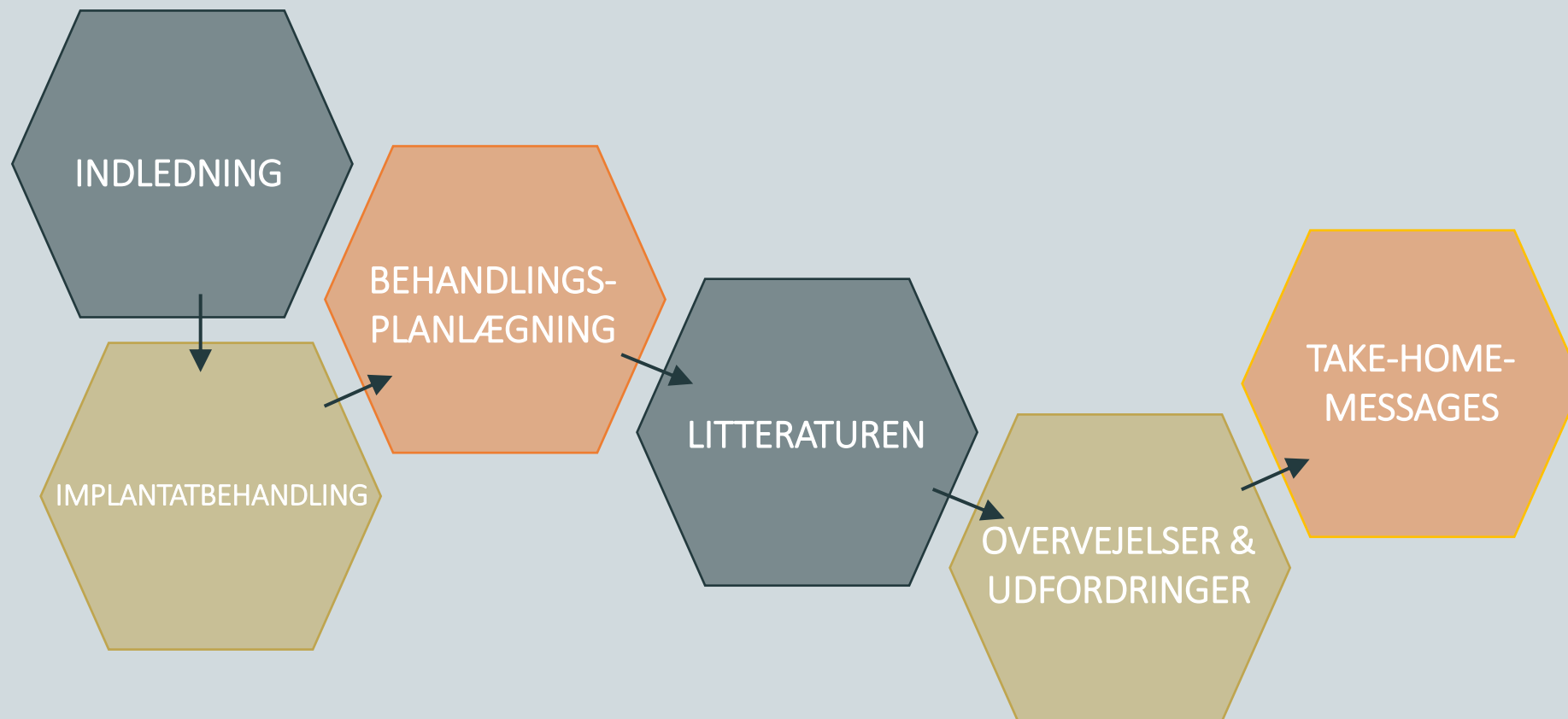
ANAMNESTISK

KLINISK

RADIOLOGISK

DIAGNOSE &
PLAN

IMPLANTATBEHANDLING



IMPLANTATBEHANDLING



LITTERATUREN

LITTERATUREN

- Implantatbehandling, livskvalitet og overlevelse

- Manglende tænder har en negativ effekt på livskvaliteten

- Implantatbehandling kan forbedre livskvaliteten

- Implantatoverlevelse på 92-98% over 10 år

- Faktorer med betydning for overlevelsen:

- Mundhygiejne
 - Parodontal sygdom
 - Rygning
 - Bruksisme og ustabil okklusion
 - Ukontrolleret diabetes

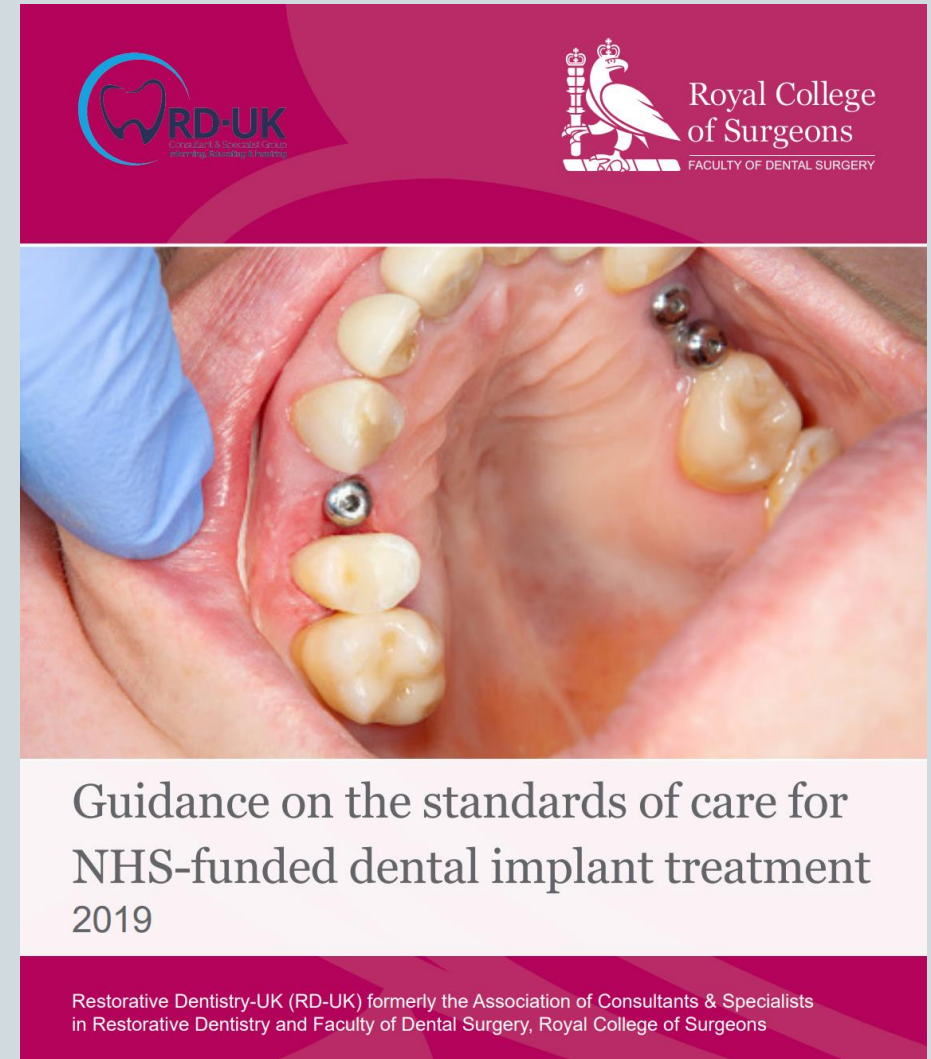
Davis et al., Br Dent J 2000
McGrath et Bedi, Community Dent Oral Epidemiol 2002
Awad et al., Int J Prosthodont 2003
Allen et al., J Dent 2012
Kriz et al., Community Dent Oral Epidemiol 2012

Buser et al., Clin Implant Dent Relat Res 2012
Degidi et al., Clin Implant Dent Relat Res 2012
Fischer et Stenberg, Clin Implant Dent Relat Res 2012
Gotfredsen, Clin Implant Dent Relat Res 2012

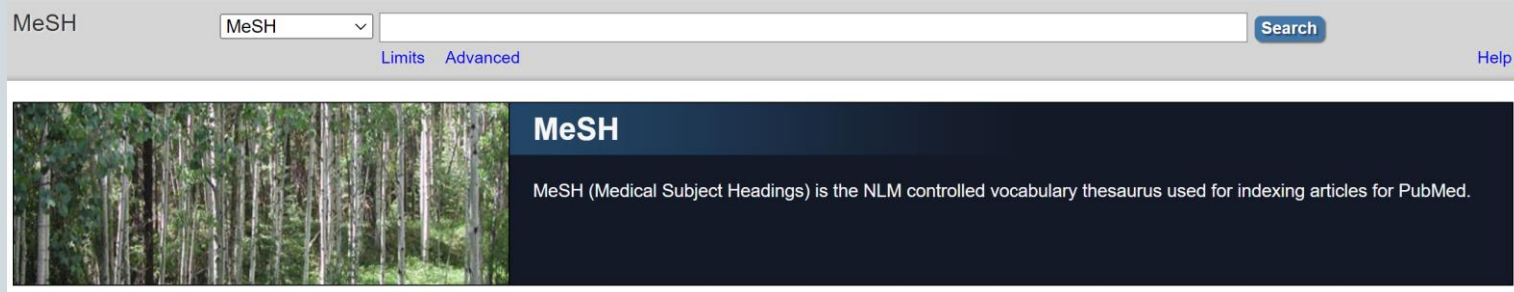
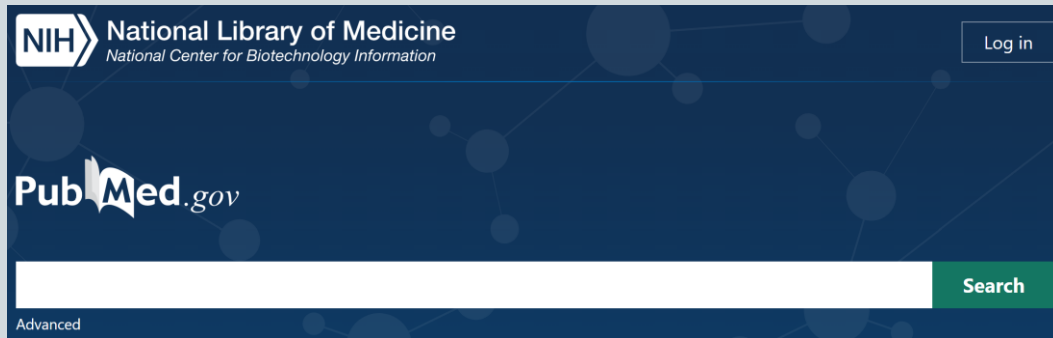


LITTERATUREN

- **Berettigelseskriterier:**
 - Regelmæssige eftersyn og opfølgning hos tandplejen
 - Ingen andre behandlingskrævende tænder
 - God mundhygiejne og hjemmetandpleje
 - Ikke-ryger
 - Alder
 - Helbred:
 - Ukontrolleret diabetes
 - Antiresorptiv behandling
 - Psykisk og fysisk udfordret patienter



LITTERATUREN



- Dental implants (26812)
- Disabled persons (70329)

6





LITTERATUREN

("Dental Implants"[Mesh]) AND "Disabled Persons"[Mesh]

PubMed søgning 6. Januar 2022: 6 hits.

1

[A Mind-Body Duelist.](#)

Barbey Ma C. [JAMA](#). 2017 Jan 17;317(3):261. doi: 10.1001/jama.2016.12484.PMID: 28114558 No abstract available.

2

[Treatment of Orally Handicapped Edentulous Older Adults Using Dental Implants.](#)

Zahedi C. [Dent Clin North Am](#). 2016 Jul;60(3):663-91. doi: 10.1016/j.cden.2016.02.007.PMID: 27264857 Review.

3

[Tooth Loss and Prosthetic Treatment in Dependent and Functionally Impaired Individuals with Respect to Age and Gender.](#)

Lantto A, Lundqvist R, Wårdh I. [Int J Prosthodont](#). 2016 Jan-Feb;29(1):68-70. doi: 10.11607/ijp.4339.PMID: 26757332

4

[The titanium PV I endosteal implant from beta-titanium alloy Ti 38Nb 6Ta.](#)

Prachar P, Bartakova S, Vanek J. [Biomed Pap Med Fac Univ Palacky Olomouc Czech Repub](#). 2015 Sep;159(3):503-7. doi: 10.5507/bp.2014.011. Epub 2014 Mar 10.PMID: 24622041 **Free article.**

5

[Oral implants in dependent elderly persons: blessing or burden?](#)

Visser A, de Baat C, Hoeksema AR, Vissink A. [Gerodontology](#). 2011 Mar;28(1):76-80. doi: 10.1111/j.1741-2358.2009.00314.x.PMID: 20337726

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[Implants in handicapped patients.](#)

López-Jiménez J, Romero-Domínguez A, Giménez-Prats MJ. [Med Oral](#). 2003 Aug-Oct;8(4):288-93.PMID: 12937390 **Free article.** English, Spanish.



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– Ej relevant



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López-Jiménez J, Romero-Domínguez A, Giménez-Prats MJ. [Med Oral](#). 2003 Aug-Oct;8(4):288-93.PMID: 12937390 **Free article.** English, Spanish.

- Rehabilitering af den ældre tandløse patient



LITTERATUREN

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93.PMID: 12937390 **Free article.** English, Spanish.

- Sammenligning af forekomsten af tandtab og protetisk behandling hos afhængige fysisk udfordrede patienter med befolkningen
- Færre tænder, flere tandløse, hyppigere rehabilitering med proteser



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93.PMID: 12937390 **Free article.** English, Spanish.

- Tester beta-titanium legering implantater på minigrise
- Herefter prækliniske test med 150 implantater på patienter
- Implantatoverlevelse 99,33 %



LITTERATUREN

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– 3 cases med afhængige patienter



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- 67 implantater i 18 patienter med varierende grad af psykisk eller fysisk udfordring
- Implantatoverlevelse 94 %
- Protetisk succes 100 %

LITTERATUREN

Med Oral Patol Oral Cir Bucal. 2014 Sep 1;19 (5):e478-82.

Implants in disabled patients

Journal section: Medically compromised patients in Dentistry

Publication Types: Review

doi:10.4317/medoral.19564

<http://dx.doi.org/doi:10.4317/medoral.19564>

Implants in disabled patients: A review and update

María-Jesús Romero-Pérez ¹, María del Rocio Mang-de la Rosa ¹, Julián López-Jimenez ², Javier Fernández-Feijoo ³, Antonio Cutando-Soriano ⁴

¹ DDS, Collaborator of the department of Dentistry in Special Patient. University of Granada

² Private activity. Barcelona

³ Profesor Associated of Dentistry in Patient Special. Group of Investigation OMEQUI. University of Santiago of Compostela

⁴ PhD,MD,DDS. Department of Dentistry in SpecialPatient. University of Granada

LITTERATUREN

Authors	Number of implants	Number of patients	Age	Sex	Follow-up period	Number of failures	Pathologies
Anders Ekkfeldt. (11)	35	14	19-55 years old		2000-2003	5	Down syndrome, fragile x syndrome, autism, schizophrenia, Rett syndrome
López Jiménez J, Romero-Domínguez A, Giménez-Prats MJ. (16)	67	18	12-71 years old	7 male and 11 female	1992-2001	4	cerebral palsy, head injuries, pyknodysostosis, Down syndrome, Rieger syndrome and senile dementia
Ribeiro CG, Siqueira AF, Bez L, Cardoso AC, Ferreira CF (25)	12	1	36 years old	Female	6 months	1	Down syndrome
Soares MR, de Paula FO, Chaves MG, Assis NM, Chaves Filho HD. (26)	1	1	22 years old	Female	4 years	0	Down syndrome
Lustig JP, Yanko R, Zilberman U (27)	4	1	16 years old	Male	2 years and a half	1	Down syndrome
Rogers JO. (30)	4	1	64 years old	Female	2 years	0	athetoid cerebral palsy

LITTERATUREN

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Ribeiro CG, Siqueira AF, Bez L, Cardoso AC, Ferreira CF (25)	12	1	36 years old	Female	6 months	1	Down syndrome
Soares MR, de Paula FO, Chaves MG, Assis NM, Chaves Filho HD. (26)	1	1	22 years old	Female	4 years	0	Down syndrome
Lustig JP, Yanko R, Zilberman U (27)	4	1	16 years old	Male	2 years and a half	1	Down syndrome
Rogers JO. (30)	4	1	64 years old	Female	2 years	0	athetoid cerebral palsy

LITTERATUREN

Authors	Number of implants	Number of patients	Age	Sex	Follow-up period	Number of failures	Pathologies
Anders Ekkfeldt. (11)	35	14	19-55 years old		2000-2003	5	Down syndrome, fragile x syndrome, autism, schizophrenia, Rett syndrome
López Jiménez J, Romero-Domínguez A, Giménez-Prats MJ. (16)	67	18	12-71 years old	7 male and 11 female	1992-2001	4	cerebral palsy, head injuries, pyknodysostosis, Down syndrome, Rieger syndrome and senile dementia
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LITTERATUREN

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Implants in disabled patients

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Implants in disabled patients: A review and update

María-Jesús Romero-Pérez ¹, María del Rocio Mang-de la Rosa ¹, Julián López-Jimenez ², Javier Fernández-Feijoo ³, Antonio Cutando-Soriano ⁴

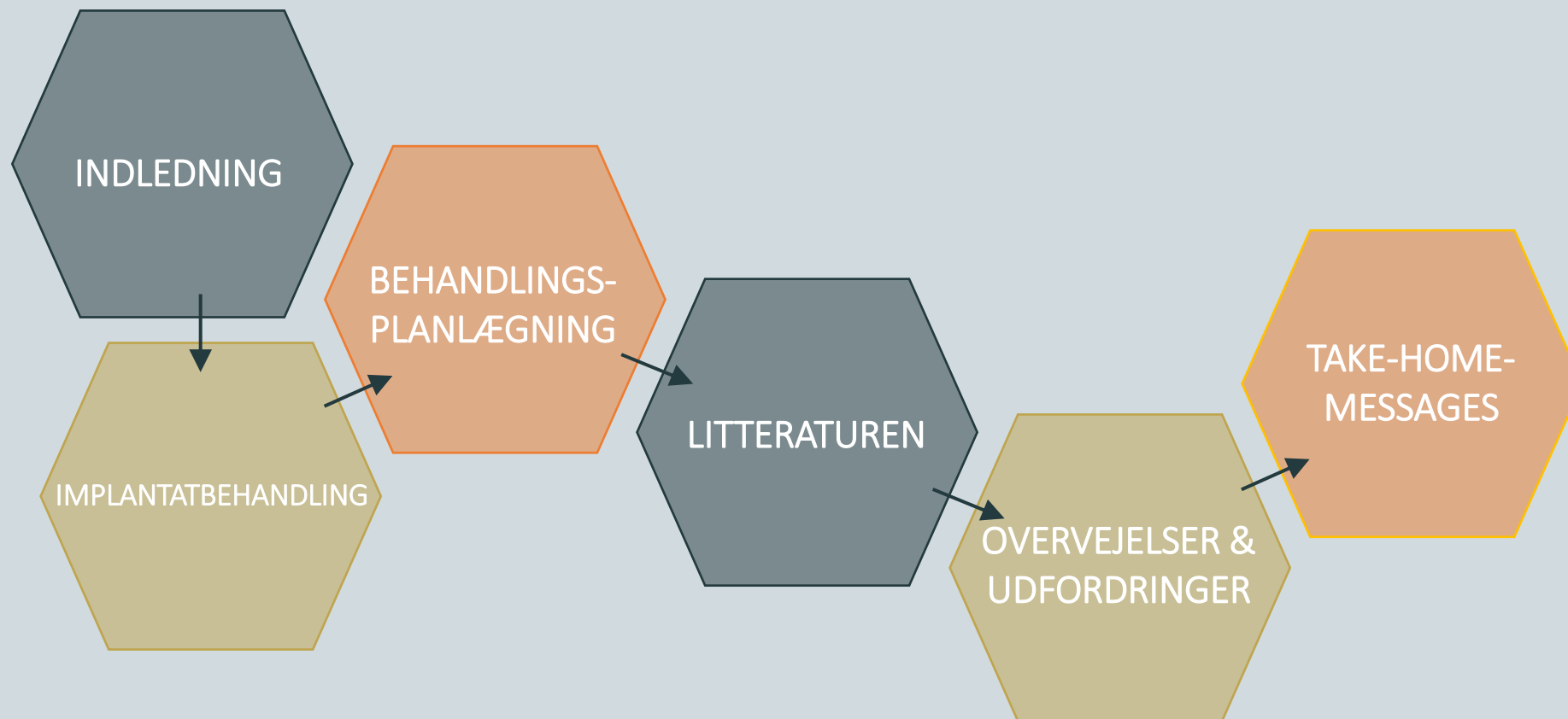
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² Private activity. Barcelona

³ Profesor Associated of Dentistry in Patient Special. Group of Investigation OMEQUI. University of Santiago of Compostela

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IMPLANTATBEHANDLING



IMPLANTATBEHANDLING

OVERVEJELSER &
UDFORDRINGER

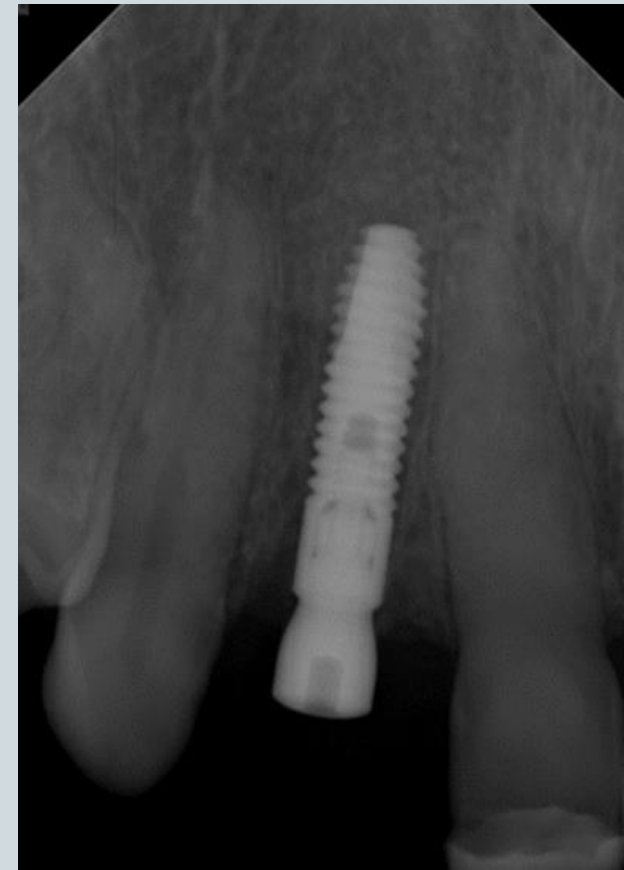
OVERVEJELSER & UDFORDRINGER

- Alment helbred og medicin
- Rygning
- Motivation
- Kooperation til behandling og vedligeholdelse
- Årsag til tandmangel

- Mundhygiejne
- Tandstatus
- Resttandsæt
- Okklusion og bruksisme
- Behandlingskrævende tilstande i munden
- Inflammationsfrit
- Kogleforhold (kvalitet og kvantitet)
- Pladsforhold
- Nabotænder
- Retentionsforhold

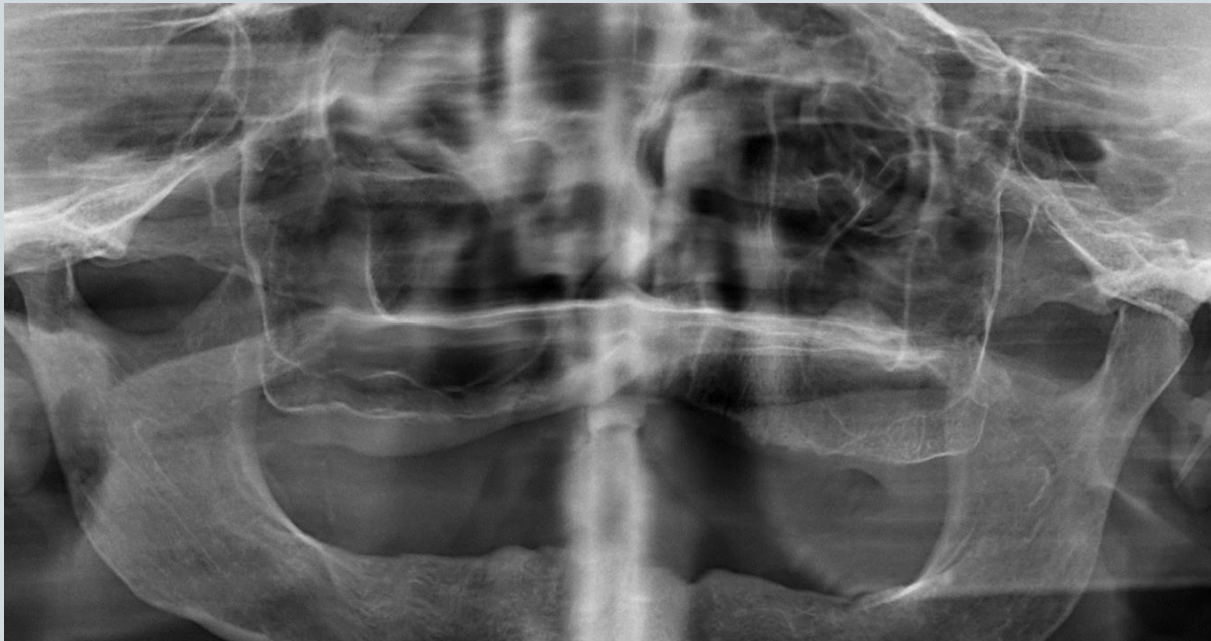
OVERVEJELSER & UDFORDRINGER

- Case: Ung kvinde på 28 år med cerebral parese



OVERVEJELSER & UDFORDRINGER

- Case: Omsorgspatient på 66 år



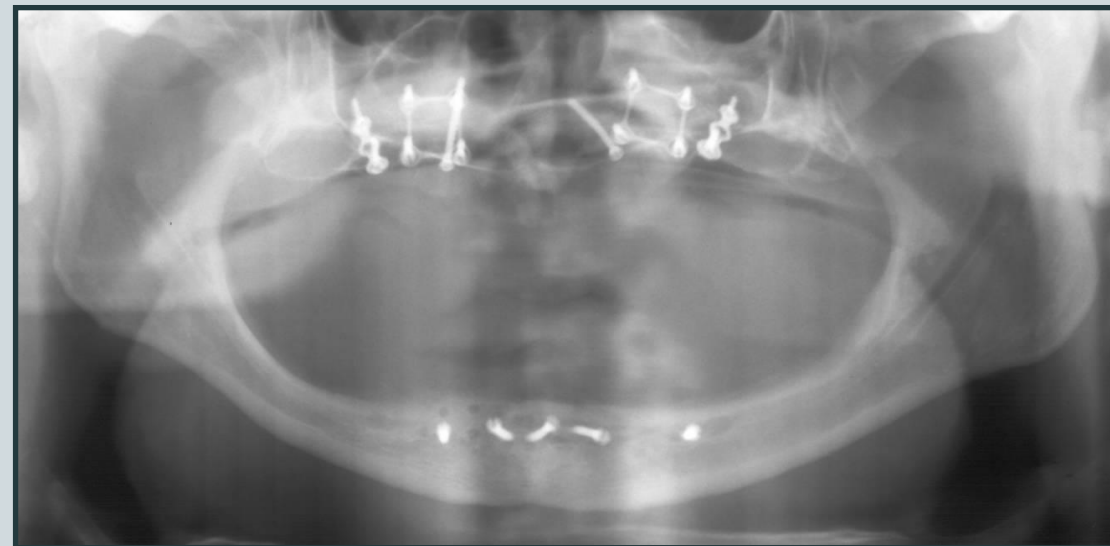
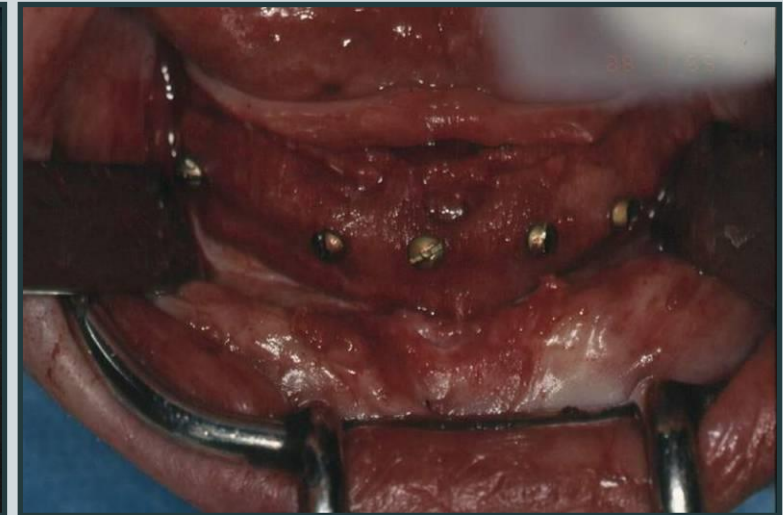
OVERVEJELSER & UDFORDRINGER

- Case: Ektodermal dysplasi



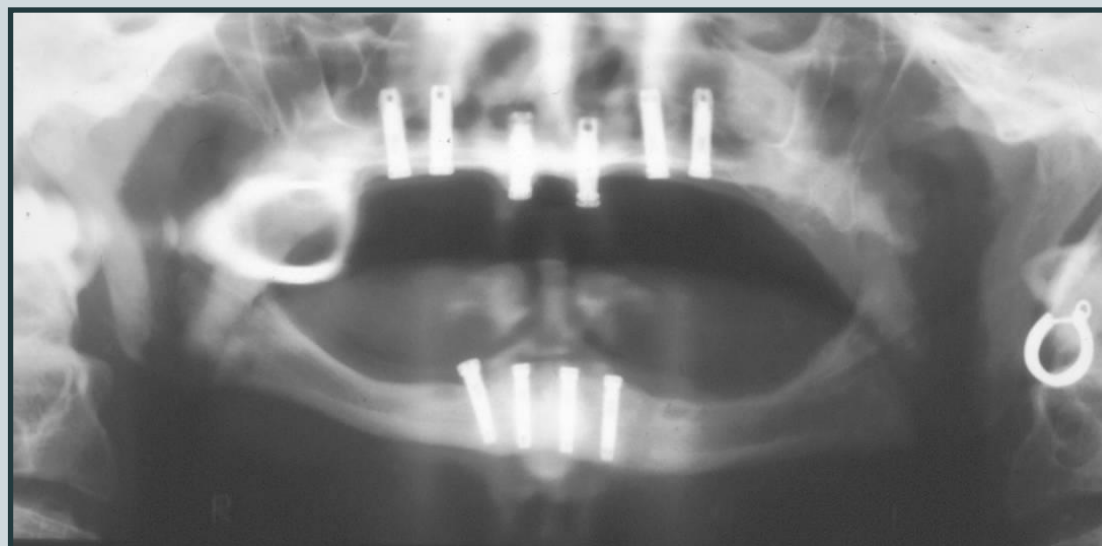
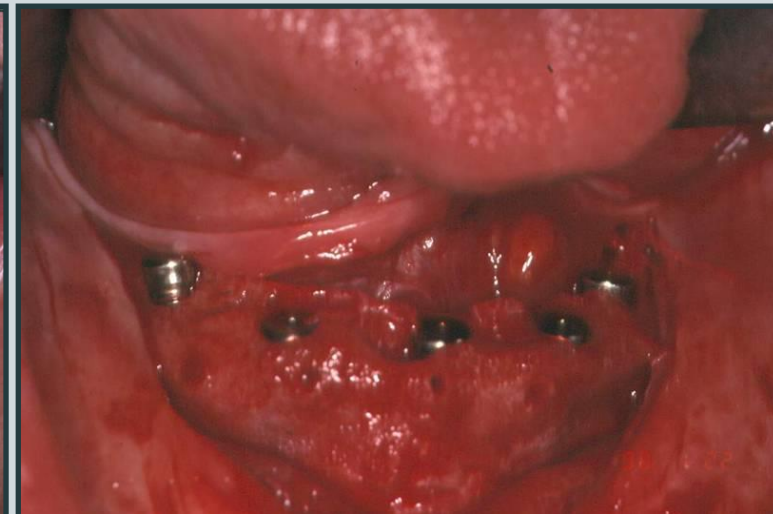
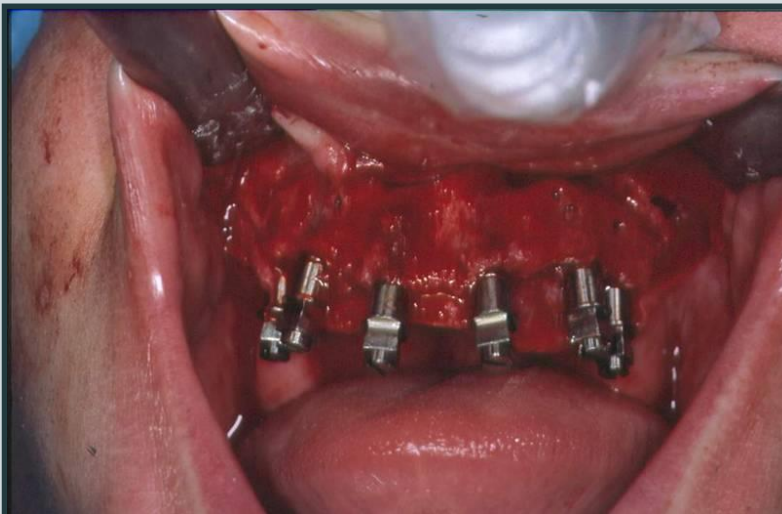
OVERVEJELSER & UDFORDRINGER

- Case: Ektodermal dysplasi



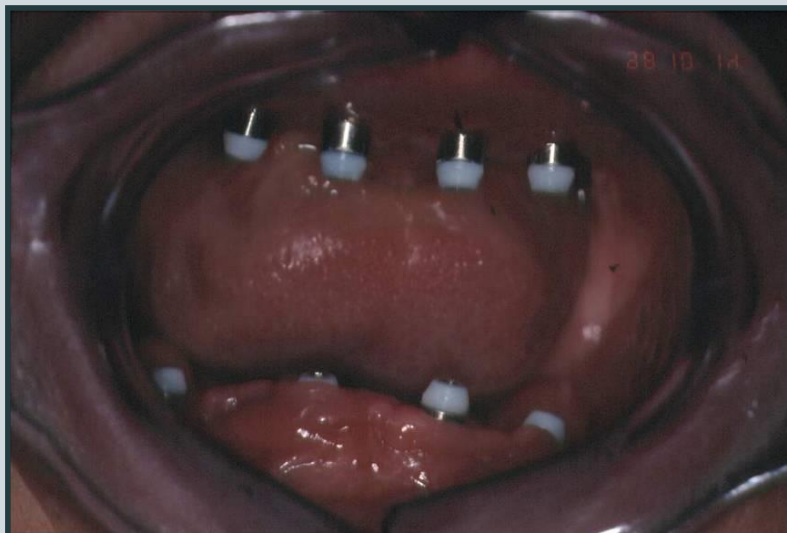
OVERVEJELSER & UDFORDRINGER

- Case: Ektodermal dysplasi



OVERVEJELSER & UDFORDRINGER

- Case: Ektodermal dysplasi

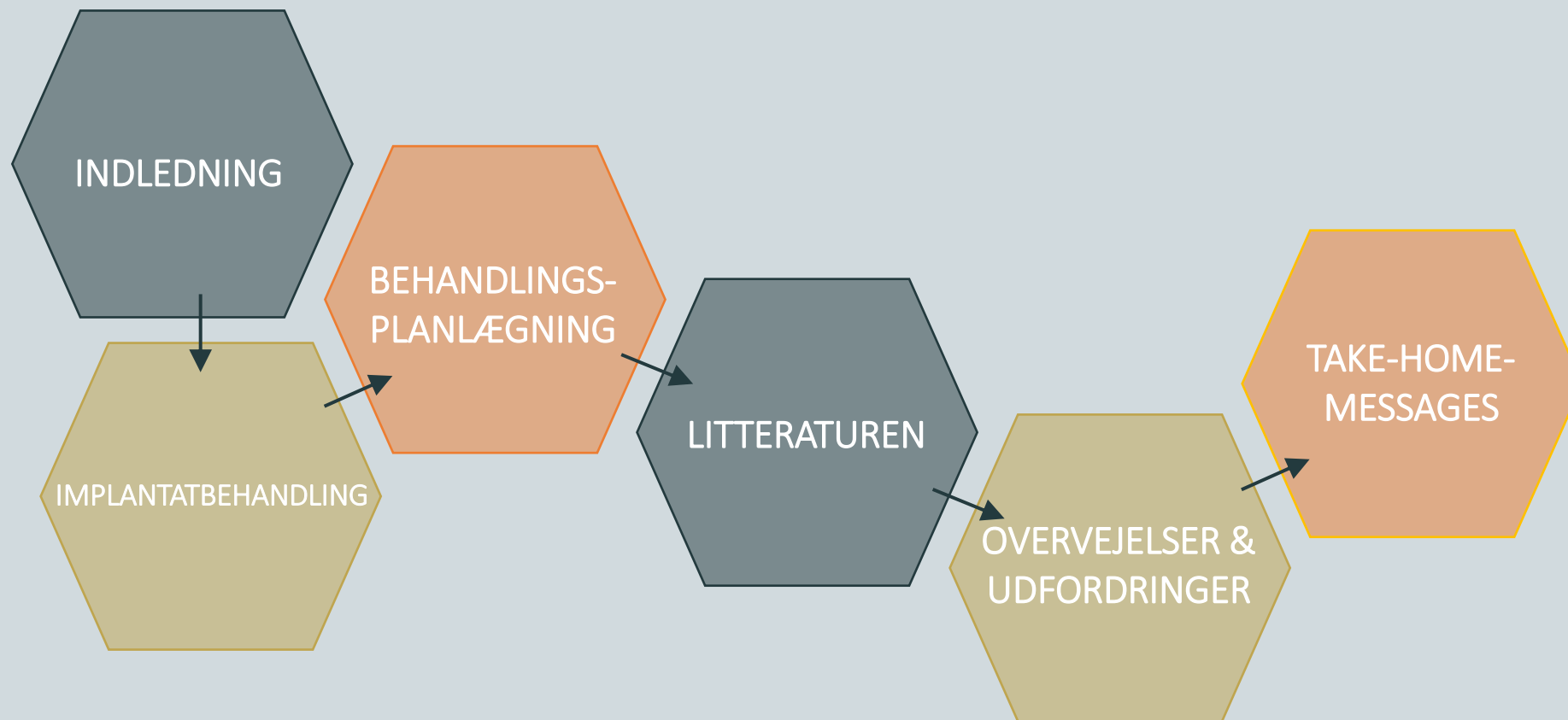


OVERVEJELSER & UDFORDRINGER

- Case: Ektodermal dysplasi



IMPLANTATBEHANDLING



IMPLANTATBEHANDLING

TAKE-HOME-
MESSAGES

TAKE-HOME-MESSAGES

- Individuel vurdering!
 - Alment helbred, medicin, rygning, motivation, omsorgshjælpere, klinisk og radiologisk undersøgelse
- Hvilke behandlingsmuligheder har vi? Faglig vurdering, ønsker og forventningsafstemning
 - Ingen, autotransplantation, aftagelig protetik, brobehandling, implantatbehandling
 - Mundhygiejne, tandstatus, okklusion, bruksisme, knoglekvalitet og –kvantitet, pladsforhold
- Stringent kirurgisk protokol
 - Medicinsk velreguleret, ikke-rygere, regelmæssige eftersyn, ingen behandlingskrævende tilstande i munden
 - Opretholdelse af sunde orale forhold (hjemme og professionelt), information til omsorgshjælpere
- Hvordan vil vi gerne behandle vores patienter?
 - Det handler om økonomi
 - Under de rette omstændigheder skal patienter selvfølgelig kunne tilbydes implantatbehandling – for det vil kunne forbedre oral funktion og æstetik

A sunset over a city waterfront. The sky is filled with vibrant orange and red clouds, transitioning to a pale blue at the top. In the foreground, the water reflects the colors of the sunset. The city skyline is silhouetted against the bright horizon, featuring a prominent domed building. A construction crane is visible in the upper right corner of the frame.

TAK FOR OPMÆRKSOMHEDEN

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