Prosthodontics is also known as dental prosthetics or prosthetic dentistry. Prosthodontics is the dental specialty pertaining to the diagnosis, treatment planning, rehabilitation and maintenance of the oral function, comfort, appearance and health of patients with clinical conditions associated with missing or deficient teeth and/or oral and maxillofacial tissues using biocompatible substitutes as replacements.
CDT and prosthodontic hierarchy

Upwards and Downwards referrals

1. Consultant in Restorative Dentistry
2. Specialist in Prosthodontics
3. Dentist with a special interest in prosthodontics
4. General Dental Practitioner (primary care practitioner) – THE GATEKEEPER
5. CDT
6. Laboratory Technician
7. Dental Nurse
Prosthodontics a dying art / science?

- There are 11 million UK residents who wear dentures and over 1 million are under 30 years old.
60 years of NHS dentistry in 2008

• In the first nine months of its existence, NHS dentists provided over 33 million artificial teeth, a figure that would rise to 65.5 million for the year 1950 to 1951.
In 1968 37% of the population in England and Wales over the age of 16 years were edentulous.

In 2009 only 6% were edentulous, concentrated in those aged 65 years and over.
Analysis of NHS Provision in 2008

• Analysis suggests that in England, the percentage of courses of complex treatment that include dentures increased from 38.1 per cent in 2003/04 to 47.9 per cent in 2007/08. In Wales there was no significant change with denture provision over the same period.
Edentate Population in 2009

Dental Status by Age
(Adult Oral Survey 2009)

<table>
<thead>
<tr>
<th>Age</th>
<th>Dentate</th>
<th>Edentate</th>
</tr>
</thead>
<tbody>
<tr>
<td>16-24</td>
<td>100</td>
<td>0</td>
</tr>
<tr>
<td>25-34</td>
<td>100</td>
<td>0</td>
</tr>
<tr>
<td>35-44</td>
<td>100</td>
<td>0</td>
</tr>
<tr>
<td>45-54</td>
<td>99</td>
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<td>15</td>
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<tr>
<td>75-84</td>
<td>71</td>
<td>29</td>
</tr>
<tr>
<td>85 &amp; over</td>
<td>55</td>
<td>45</td>
</tr>
</tbody>
</table>
By 2034

- the number of people aged ≥ 85y is projected to be 2.5 times larger than in 2009.

- i.e. 3.5 million or 5% of the total population.

- 65-84y will be ~ 20% of the population
More People

More Elderly People

More Elderly Living Longer

Still a Requirement for Removable Prosthetics
Back to Prosthodontics

- **F/F – complete**
  1. Copy
  2. Overdenture
  3. Implant supported

- **FPD (bridge)**
  1. Conventional
  2. Resin-bonded
  3. Cantilever

- **RPD (partial)**
  1. Chrome
  2. Acrylic
  3. New Materials
PUB Quiz
So what do you know?

- Alveolar augmentation
- Perleche
- Andrews bridge
- Curve of Spee
- Aphagia
- Arch bars
- Auricular prostheses
- Attrition
- ARCON
- Axial loading
Prosthodontic terms


- Or load *Glossary of prosthodontic term* into Google and download the PDF file

- Example

- **cross arch stabilization** \(\kro \hat{s}, \kro \hat{s} \ a \hat{r}ch \ sta\#b\#t\#l\#z\#a\#shun\): resistance against dislodging or rotational forces obtained by using a partial removable dental prosthesis design that uses natural teeth on the opposite side of the dental arch from the edentulous space to assist in stabilization
Further reading

• What text books do you have and do you refer to
• Take 5 minutes in your groups to view each others books and come up with a favourite for each group
• Amazon search 343 books on prosthodontics
• Amazon search on ‘dentures’ = 1060!!
Complete dentures
FPD
Pub Quiz

• Give an example of
  1. Direct retention in RPD
  2. Indirect retention in RPD
  3. What is the technical term for an alginate impression material
  4. Which is the most accurate and stable rubber base material
  5. What is SS White impression paste
  6. What are the 4 major constituents of Chrome Cobalt
  7. PMMA – what is it?
  8. Who is the leader of ELO and was in the Travelling Wilburys
  9. Name 2 others in the latter group
Improved perceived general health is observed with prosthodontic treatment

D.R. Reissmann, O. Schierz, A.G. Szentpetery, & M.T. John
J Dent 30: 326-331, 2011
Abstract

Objectives
Prosthodontic treatment affects not only oral health, but also general health. However, whether prosthodontic patients actually perceive a change in their general health has not been well studied. This study aims to compare self-reported general-health status in patients before and after prosthodontic treatment.

Methods
Self-reported general-health status was measured using a single-item questionnaire in a consecutive sample of 500 prosthodontic patients. Responses were recorded using a five-point scale ranging from “poor” to “excellent.”
Results
Perceived general health improved in 11.3% of patients treated with removable partial dentures, and in 4.1% of patients treated with complete dentures. Changes in self-reported general health status were not related to age or gender.

Conclusion
Prosthodontic treatment appears to have a positive effect on perceived general health.
THE PROBLEM WITH DENTURE PROVISION IN THE UK

• Few specialists or clinicians who specialise in the area
• NHS finance, some GDPs are unwilling and specialists not keen
• Consultants also have funding issues
• Too much hassle especially if de-skill
• Not well taught to dental students
Current trends in removable partial denture teaching in British dental schools
R. K. F. Clark, D. R. Radford & A. S. Juszczyk

• Students' removable partial denture experience, particularly with cobalt-chromium frameworks, is less than previously reported.
• Students get very little experience treating patients requiring a complete denture in one jaw and a removable partial denture in the other.
• There is concern that removable partial denture teaching is tailored to the perceived conditions of the NHS.
• Students may only treat one chrome cobalt case, the remainder of dentures being constructed of acrylic resin.
CDTs issues

- 227 registered at present
- You are the last cohort of this type of training
- Future will be far more onerous training taking techs to CDT standard
- Illegal practice
- Other registered DCPs encroaching
Sir, a longstanding NHS patient came in for her annual check up recently. She was a little overdue as I last saw her 16 months ago. As she was settling into the chair, I asked how she was getting on with the upper partial chrome/cobalt I fitted on her last visit. Immediately she appeared a bit sheepish and we all know the symptoms: she has either never worn it or the dog has chewed it up!

On examination I was surprised to see a well fitting and highly retentive denture in place and as I removed it with some difficulty, I was struck with horror as I realised it had not been removed since I fitted it 16 months ago – the patient was apologetic.

This is a record for me after 34 years in practice but I know records are there to be broken so over to you, respected colleagues!
Risk management in partial dentures

• C. Stilwell
• Dentures are not just a gap-filling exercise and denture dissatisfaction is not just a technical issue. Making the right assessment for the patient is crucial in denture provision.
• To achieve success in denture construction, appropriate care must be taken in the diagnostic stages.
• Planning for the loss of other teeth in the future at the design stage will save potential grievance later.
Risk management in other fields