Appendix D

Examples of Strategies for Overcoming Psychological Barriers to Insulin Use (for People with Type 2 Diabetes)

There is no single strategy to address psychological barriers to insulin. The examples in this table may work for some, but not for others. However, the strategies may help you reflect on how you can support someone who experiences one or more of these barriers. Select the strategies that are appropriate for the individual and their needs.

### TABLE D.1  Examples of Strategies for Overcoming Psychological Barriers to Insulin Use (for People with Type 2 Diabetes)

<table>
<thead>
<tr>
<th>Barrier: Myths and Misunderstandings About Insulin (e.g., insulin causes diabetes to worsen, insulin causes complications, or taking insulin as recommended is not important)</th>
<th>Explore the barrier through conversation</th>
<th>Inform about the barrier</th>
<th>Together, develop an action plan</th>
</tr>
</thead>
</table>
| › Explore what they know and how they feel about insulin.  
› Enquire about their overall concerns about and problems with diabetes (e.g., the side effects of hyperglycemia could be a motivator to change).  
› Ask whether:  
• they know other people with type 2 diabetes using insulin  
• or they have shared their (negative and positive) experiences, as this could influence their own beliefs/feelings. | › Dispel misconceptions about insulin (e.g., correctly used, insulin is not the cause of complications, but can actually help to prevent them).  
› Emphasize that diabetes is a progressive condition, and insulin is almost inevitable.  
› Counterbalance their concerns with benefits (e.g., insulin helps to improve glycemic outcomes/gives more flexibility/energy levels/well-being/treatment satisfaction, gives more flexibility, and prevents long-term complications).  
› Dispel the belief that not having symptoms of high blood glucose levels indicates that insulin is not needed. | › Invite the person to complete the “Decisional balancing tool” (see Box 5.3 on page 81), as it will help the cognitive process of weighing up pros and cons.  
› After completing the tool, ask them to talk about their responses. This will inform the action plan. |

**NB:** It is best to postpone other changes to their treatment regimen while they process the new information and come to a decision.
## Appendix D

### Barrier: Concerns about Injecting  (e.g., lack of confidence, pain, or worries)

<table>
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| › Explore in more detail the cause(s) of their concern.  
› Ask if they have seen an insulin injection pen.  
› Ask about previous experiences with injections or needles.  
› If pain is experienced, explore what the reason may be.  
**NB:** For information about fear of injections, see Box 4.2 on page 56. | › Explain:  
› that many people fear injecting at first, but with practice this fear disappears  
› how to reduce pain (e.g., deep breath relaxation before injecting, or using less sensitive sites)  
› and the reason for the treatment regimen (type of insulin and number of injections, such as why two injections are recommended rather than one). | › If the person is experiencing pain while injecting:  
› invite them to do an injection with you, so you can observe/talk about the technique.  
› check their insulin sites  
› discuss insulin use (e.g., storage)  
› and consider new technologies and treatments (e.g., finer needles, insulin pump, and longer-acting insulins).  
› If the person is new to insulin:  
› show them how small the needle is of an insulin injection pen  
› demonstrate the injection (see ASSIST on pages 61 and 62)  
› invite them to do their first injection at the appointment with you (for reassurance/encouragement)  
› for their first injection, leave them time to feel comfortable  
› check if they would like to make appointments for a few consecutive days, until they feel confident injecting on their own.  
› and suggest a short “trial” period of insulin use (see ASSIST on pages 61 and 62)  
› Assist in referring them to a certified diabetes educator to learn or improve injection techniques and work through the barriers. |

### Barrier: Concerns about Weight Gain

<table>
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| › Ask about their general concerns about their weight and body shape.  
› Explore what the main obstacles are to maintaining or reducing weight.  
› Ask about their expectations in relation to weight gain.  
› For those already using insulin, ask about their experiences of the impact of insulin on their weight. | › Reassure the person that although some people gain weight when they begin insulin, the weight gain is often (a) short term, and (b) counteracted with small changes to lifestyle.  
› Emphasize that most people feel better physically once they begin insulin use.  
› Explain that a collaborative approach (involving their PCP/endocrinologist, dietitian and/or diabetes educator) can help in minimizing the impact. | › Assist in developing an action plan to minimize the impact of insulin on weight (e.g., optimizing their insulin regimen and/or meal plan).  
› Explain how to titrate insulin doses based on blood glucose readings and meals.  
› Suggest they consider asking for help from their partner or family member in maintaining healthy eating and/or exercising.  
› Assist in referring them to another health professional (e.g., a dietitian).  
**NB:** Optimize their insulin dose to avoid over-treating.  
**NB:** Explore weight-neutral or weight-reducing diabetes therapies (e.g., incretin-based therapies, or metformin). |
### Barrier: Self-Perception
(e.g., feelings of failure or guilt)

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|  › Ask how they feel about living with diabetes.  
  › If appropriate, assess for diabetes distress (see Chapter 3), depression (see Chapter 6), and/or an anxiety disorder (see Chapter 7). |  › Dispel feelings of failure, blame, shame, etc.  
  › Emphasize that:  
    • diabetes is a progressive condition  
    • many people with type 2 diabetes need insulin  
    • and insulin is a powerful way to prevent long-term complications. |  › See Chapter 3 about how to help a person who has negative feelings around diabetes.  
  › Refer them to a mental health professional if negative feelings are persistent. |

### Barrier: Impact on Lifestyle
(e.g., reduced flexibility or spontaneity, time consuming, having to give up other activities, effect on work, or cost)

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|  › Ask about how they believe insulin will affect their lifestyle.  
  › Explore in more detail what aspect(s) of their lifestyle will be impacted, as this will inform the action plan to address the barrier. |  › Explain the benefits of insulin, relating back to their specific concerns (e.g., more flexibility in the timing of meals or food choices; and feeling more energetic, allowing more activities instead of less).  
  › Explain that being active will have a positive effect on insulin sensitivity.  
  › If they are experiencing discrimination because of their diabetes (e.g., at work), encourage them to contact the American Diabetes Association at (800) DIABETES for advocacy support.  
  › Provide information about the costs of insulin and what subsidies are available/how to access them. |  › Problem-solve situations in which they would feel uncomfortable to inject (e.g., with colleagues, or in public) or how to continue activities after starting insulin.  
  › Explain how to titrate insulin doses based on blood glucose readings and planned activities and meals to avoid giving up activities.  
  › Suggest a short “trial” period of insulin use (see ASSIST on page 82).  
  **NB:** For some people, a once-daily injection would reduce the impact on their lifestyle, while, for others, multiple daily injections can increase flexibility.  
  **NB:** Consider the method of insulin delivery (e.g., pen versus pump). |

### Barrier: Perceived Attitudes and Behaviours of Others
(e.g., social embarrassment, or concerns from others)

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| Ask whether:  
  › they have discussed going on insulin with other people and what the reaction was  
  › others support them in going onto insulin  
  › or if they feel comfortable about injecting in front of others. |  › Talk about how we cannot control what others think or say but we can control how we react to it.  
  › Discuss how other people sometimes make fun or ridicule because they don’t understand or are fearful.  
  › Advise that they explain to people their need for insulin and suggest they show others their insulin pen. This may deter other people from making any further negative comments about insulin. | If a close family member or friend does not understand the need for insulin or is worried about it, suggest they:  
  › invite them to attend the next appointment or to attend a diabetes information session (if available)  
  › and give the family member or friend an information leaflet about insulin.  
Inform them about online and face-to-face diabetes peer support services in their local area and encourage them to participate to strengthen their support networks. See Appendix B. |
### Barrier: Risk of Hypoglycemia

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>Ask about:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>› their understanding of hypoglycemia</td>
<td>Explain that:</td>
<td>› Assist the person in accessing appropriate hypoglycemia prevention and management training.</td>
</tr>
<tr>
<td>› their concerns about the risk of hypoglycemia</td>
<td>› hypoglycemia is a side-effect of insulin use</td>
<td>› Implement/adapt the insulin regimen step-by-step, so that the person is safe and feels confident in their insulin use.</td>
</tr>
<tr>
<td>› and what they fear most about hypoglycemia (see Chapter 4).</td>
<td>› there are strategies to prevent low glucose levels (e.g., checking blood glucose and timely treatment)</td>
<td>NB: Consider lower-risk treatments (e.g., longer-acting insulin, or alternatives to insulin).</td>
</tr>
<tr>
<td></td>
<td>› the risk of severe hypoglycemia (very low blood glucose) is low in people with type 2 diabetes</td>
<td></td>
</tr>
<tr>
<td></td>
<td>› and training in hypoglycemia prevention/management is available.</td>
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### Barrier: Concerns about Regimen Complexity

<table>
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<tbody>
<tr>
<td>Ask about:</td>
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<td></td>
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<tr>
<td>› what aspects of their regimen they find complex or challenging</td>
<td>› Recognize that at first insulin may seem to be a more complex regimen, but that they can take it step-by-step (e.g., starting off with a once-daily long-acting injection).</td>
<td>› Discuss and decide on a regimen that will suit the person’s lifestyle, health needs, and confidence levels.</td>
</tr>
<tr>
<td>› how adding insulin to their treatment plan would impact on this complexity</td>
<td></td>
<td>› Provide or assist the person to access training/resources about how to manage diabetes (e.g., how to administer insulin and check blood glucose), with specific attention to the aspects of their regimen that they find most challenging.</td>
</tr>
<tr>
<td>› and the experienced challenges (for those already using insulin).</td>
<td></td>
<td>› Suggest a short “trial” period of insulin use (see ASSIST on page 82).</td>
</tr>
</tbody>
</table>

### Barrier: Loss of Independence

<table>
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<tbody>
<tr>
<td>Explore:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>› how they perceive loss of independence</td>
<td>› Reassure them that using insulin does not mean loss of independence.</td>
<td>› Discuss and decide on a regimen that will suit the person’s lifestyle, health needs, and confidence levels.</td>
</tr>
<tr>
<td>› what part of their life is most likely going to change</td>
<td>› Explain that using insulin most likely means they will gain more independence (e.g., more energy and more flexibility in when and what they eat) and be able to live a normal, healthy life.</td>
<td>› Provide or assist the person to access training/resources about how to manage diabetes (e.g., how to administer insulin/check blood glucose/avoid hypoglycemia), with specific attention to the aspects of their regimen that they find most challenging.</td>
</tr>
<tr>
<td>› and any effects on their “freedom.”</td>
<td></td>
<td>› Suggest a short “trial” period of insulin use (see ASSIST on page 82).</td>
</tr>
</tbody>
</table>
At the End of the Conversation about Psychological Barriers to Insulin Use:

- Ask the person how they are feeling now that you have talked about their concerns.
- Summarize the conversation and any actions you have agreed on. As part of this:
  - Check that they feel confident and are willing to implement the action plan, and whether they expect major obstacles.
  - Reassure them that the plan can be revised if needed.
  - Suggest some information to read at home. At the end of Chapter 5 (see page 89), there is a list of resources that may be helpful for a person who is experiencing psychological barriers to insulin use. Select one or two of these that are most relevant for the person; it is best not to overwhelm them with too much information.

References
